

Directorate of School Education A.M.U. Aligarh
Senior Secondary School Certificate Examination
Annual Exam (2022-23)
Model Question Paper
Class XII
Accountancy [12AC04]

Maximum Marks: 75

Duration: Three Hours

NOTE:

1. All questions are compulsory
2. SECTION A (MCQ) carry 1 mark each
3. SECTION B very short answer questions carry 2 marks each
4. SECTION C short answer questions carry 3 marks each
5. SECTION D long answer questions carry 7 marks each

SECTION A (1MARK EACH)

- Q1. If at the time of admission, there is some unrecorded liability, it will be: (1)
- a) Debited to revaluation account
 - b) Credited to revaluation account
 - c) Debited to goodwill account
 - d) Credited to partners' capital account
- Q2. The amount due to the deceased partner is paid to his.... (1)
- a) Father
 - b) Wife
 - c) Family
 - d) Executor
- Q3. Reserve capital is also known as (1)
- a) Capital reserve
 - b) Called up capital
 - c) Subscribed capital
 - d) None of the above
- Q4. If shares of Rs 4,00,000 are issued for purchase of assets of Rs.5,00,000 it will be treated ac.... (1)
- a) Discount
 - b) Premium
 - c) Profit
 - d) Loss
- Q5. If the premium on the forfeited shares has already been received, then security premium account will be: (1)
- a) Credited
 - b) Debited
 - c) No treatment
 - d) None of the above
- Q6. Debentures are shown in the balance sheet of the company under the head of.... (1)

- a) Current liability
- b) Share capital
- c) Non-current liability
- d) None of these

- Q7. appears in a company's balance sheet under the sub-head short term provision. (1)
- a) Interest accrued
 - b) Provision on tax
 - c) Unpaid dividend
 - d) Call in advance
- Q8. Ideal current ratio is: (1)
- a) 1:1
 - b) 1:2
 - c) 1:3
 - d) 2:1
- Q9. Cash balance Rs 15,000; trade receivables Rs 35,000; inventory Rs 40,000; trade payables Rs 24,000 and bank overdraft Rs 6,000. Current ratio will be? (1)
- a) 3.75:1
 - b) 3:1
 - c) 1:3
 - d) 1:3.75
- Q10. In cash flow statement the items of interest are shown in (1)
- A. Operating activity
 - B. Financing activity
 - C. Investing activity
- a) Both B & C
 - b) Both A & C
 - c) Both A & B
 - d) A, B & C

SECTION B (2 MARKS EACH)

- Q11. What is the difference between operating and investing activity? (2)
- Q12. What is current ratio? (2)
- Q13. Quick ratio 1.5; Current Assets Rs.1,00,000; Current Liability Rs. 40,000. (2)
Calculate value of inventories (stock)
- Q14. How is window dressing a limitation of Financial Statement Analysis? (2)
- Q15. Define authorised capital. (2)
- Q16. Compute the cost of material consumed from the following: (2)
- Opening inventories of materials Rs.1,50,000
 - Opening work in progress Rs.2,00,000
 - Materials purchased Rs.15,00,000
 - Closing work in progress Rs.1,50,000
 - Closing inventories of materials Rs.2,50,000
- Q17. Write any two objectives of Financial Statement Analysis. (2)
- Q18. Differentiate between issued capital and subscribed capital with example. (2)

SECTION C (3 MARKS EACH)

- Q19. A and B are the partners in the firm with capital of Rs. 5,00,000 and Rs. 3,00,000 respectively. Partnership deed says: (3)
- a. Interest on capital to be allowed @ 10% p.a.
 - b. Salary to A Rs. 60,000 p.a.
 - c. Commission to B Rs. 20,000 p.a.
- Prepare profit and loss appropriation account if the net profit earned by the firm is Rs. 8,00,000
- Q20. Calculate the value of goodwill on the basis of three years purchase of average profit of the preceding five years which were as follows: (3)
- 2017- Rs. 13,00,000
 - 2018- Rs. 4,00,000(loss)
 - 2019- Rs. 18,00,000
 - 2020- Rs. 15,00,000
 - 2021- Rs. 8,00,000

OR

What is goodwill? What factors affect goodwill?

- Q21. X, Y and Z are partners in the firm sharing profit and losses in the ratio of 5:3:2. The partners decide to share the future profits and losses in the ratio of 3:2:1. Calculate each partners gain or sacrifice due to change in the ratio. (3)

OR

What is the difference between gaining and sacrificing ratio?

- Q22. Atlas Co. Ltd. Purchased a machine from HMT Co. for Rs. 64,000. It was decided to pay Rs. 10,000 in cash and the balance will be paid by issue of shares of Rs.10 each. pass the journal entries if shares Issued at premium of 20% (3)
- Q23. Prepare balance sheet as per Schedule III of the Companies Act 2013 (3)
- 10% debentures of Rs 100 each Rs.1,90,000
 - Stock in trade (inventories) Rs.40,000
 - Provision for Tax Rs.6,000
 - Goodwill Rs. 20,000
- Totalling of the balance sheet is not required.
- Q24. Give the meaning and objectives of accounting ratios. (3)

OR

Calculate liquid ratio/quick ratio/acid test ratio from the following:

- Working capital Rs 2,80,000
- Total debts (outstanding liabilities) Rs.5,90,000
- Long term debts Rs. 5,00,000
- Inventories Rs. 2,00,000

Q25. Give the classification of cashflow for preparing cash flow statement.

(3)

OR

Calculate cash flow from Operating Activities from the following details:

Particulars	31st March 2020 (Rs.)	31st March 2019 (Rs.)
Surplus i.e., Balance in Statement of profit and loss	80,000	60,000
Trade receivables	25,000	31,000
Provision and depreciation	40,000	30,000
Inventories	80,000	60,000
Outstanding rent	12,000	21,000
Goodwill	30,000	38,000
Prepaid insurance	1,000	2,000
Trade payables(creditors)	13,000	19,000

SECTION D (7 MARKS EACH)

Q26. Explain in detail the treatment of accumulated profits and losses and reserves on the admission of a new partner in a firm. (7)

OR

The balance sheet of Asha, Deepak and James who were sharing profits as 5:3:2 as at 31st March 2021 is as follows:

LIABILITIES	Rs.	ASSETS	Rs.
Creditors	50,000	Cash at bank	40,000
Employees provident fund	10,000	Sundry debtors	1,00,000
Profit and loss a/c	85,000	Stock	80,000
Capital a/c:		Fixed assets	60,000
Asha 40,000			
Deepak 62,000			
James 33,000	1,35,000		
	2,80,000		2,80,000

PTO

Asha retired on 1st April 2021 and Deepak and James decided to share the profits in future in the ratio of 3:2 respectively.

The other terms on retirement were;

- Goodwill of the is to be valued at Rs80,000
- Fixed assets are to be depreciated to Rs57,500
- Make a provision for doubtful debts @ 5% on debtors.
- A liability for claims, included creditors for Rs10,000 is settled at Rs8,000

The amount to be paid to Asha by Deepak and Lata in such a way that their Capitals are in proportionate to their profit sharing ratio and leave a balance of Rs15,000 in bank account. Prepare Revaluation account and partners' capital account.

Q27. What problems arise when a partner dies? How would you deal with them as an accountant? (7)

OR

Achal and Vichal were partners in a firm sharing profits in the ratio of 3:5. On 31st March, 2020, their Balance Sheet was as follows:

Liabilities	Rs	Assets	Rs.
Capital a/c:		Land and building	4,00,000
Achal 3,00,000		Machinery	3,00,000
Vichal 5,00,000	8,00,000	Debtors	2,22,000
Creditors	1,79,000	Cash at bank	78,000
Employees provident fund	21,000		
	10,00,000		10,00,000

The firm was dissolved on 1st April, 2020 and the Assets and Liabilities were settled as follows:

- (a) Land and Building realised ₹ 4,30,000.
- (b) Debtors realised ₹ 2,25,000 (with interest) and ₹ 1,000 were recovered for Bad Debts written off last year.
- (c) There was an Unrecorded Investment which was sold for ₹ 25,000.
- (d) Vichal took over Machinery at ₹ 2,80,000 for cash.
- (e) 50% of the Creditors were paid ₹ 4,000 less in full settlement and the remaining Creditors were paid full amount.

Pass necessary Journal entries for dissolution of the firm. Also prepare the realization account

Q28. Discuss the meaning and types of preference shares.

(7)

OR

A limited company invites application for 50,000 equity shares of Rs.10 each, at a maximum discount by the Company's Act, payable on the following basis:

- a) To applicants for 35,000 shares - in full
- b) To applicants for 20,000 shares - 15,000 shares

Excess money paid on application was utilized towards allotment money.

A shareholder who was allotted 1,500 shares out of the group applying for 20,000 shares failed to pay allotment money and money due on calls. these shares were forfeited 1,000 forfeited shares were reissued as fully paid on receipt of Rs.8 per share.

Show the journal entries in the books of the company.

Q29. Define debentures. Also differentiate between shares and debentures.

(7)

OR

Savoy Ltd. Invited applications for 4,000 debentures of Rs.100 each issue at a premium of 20%. Applications were received for 6,000 debentures and it was decided to deal with the same as follows:

- a) To refuse allotment to applicants for 1,200 debentures
- b) To give full allotment to applicants for 400 debentures
- c) To allot the remaining debentures on a pro rata basis among other applicants.
- d) To utilise excess application money in part payment of allotment money.

Journalise the above transactions (including cash transactions) assuming that

- 1) The total amount is payable along with the application, and
- 2) When the amount is payable in instalments-on applications Rs.20, on allotment Rs.50(including premium), and balance as first and final call

Directorate of School Education A.M.U, Aligarh
Senior Secondary School Certificate Examination
Annual Exam(2022-2023)
Model Question Paper
Class XII
SUBJECT- ARABIC
(12AR04)

TIME: 3 HRS

M.M: 75

Q. 1:- Translate any two of the given passages into Urdu, Hindi or English. [10×2=20]

(أف)

مرض شاشاشكن بمرض وبقي على الفراش لمدة طويلة، وانقطعت جميع آماله للحياة، كان شاشاشكن في يوم من الايام مستلقيا على فراشه ويعد أنفاسه الأخيرة حين لفت انتباهه حزن زوجته وبكائها فتخاطبها قائلاً: "لماذا تحزنين وتبكين وتلبسين هذه الثياب السوداء..... روجي نفسك يا عزيزتي اذهبي حالا والبسي اجمل ثيابك وامشطي شعرك وتطبيبي وتزيني.

(ب)

ومن حسنات الاسلام انه جعل العبيد سادة والمماليك ملوكا، فقد خلف الغوري مملوكه قطب الدين وخلفه مملوكه شمس الدين، واستمرت دولة المماليك ٨٧ سنة، جاء في خلالها ملوك يتجمل تاريخكم بهم كالقائد قطب الدين ايبك، والملك الصالح ناصر الدين محمود بن التمش والملك العادل غياث الدين بلبن وفي عصر السلطان شمس الدين كان في دهلي الشيخ الكبير قطب الدين بختیار الكعكي، وطالما رايت السلطان شمس الدين يدخل عليه في الليل ويخدمه ويغمرز رجليه ويبيكي.

(ج)

كان عند مؤسبي الأمم المتحدة آمال كبيرة في منع النزاعات بين الدول واستحالة الحروب في المستقبل ولكن هذه الآمال ما زالت آمالا ولم يدرك الهدف المنشود من تأسيس هذه المنظمة الدولية وعرقل انقسام العالم إلى معسكرات عدائية أثناء الحرب الباردة في من ١٩٤٧-١٩٩١ في الوصول إلى الهدف المطلوب. وفي السنين الأخيرة أثار ارتفاع الولايات المتحدة الامريكية إلى موقع الهيمنة العالمية.

Q.2:- Explain any five of the following verses. [5×2=10]

وتناسى بالحن اسرا و سجننا
فغدا في هبوبها يبتئى
وهذا الزهر من عندي
والكرنك والبردي
فيا لينكم تأتون بالكلمات
وناديت قومي فاحتسبت حياتي
عقمت فلم اجزع لقول عداتي
وما ضقت عن أي به وعظات

ذكر الطائر الرياض فغنى
نسمات الغصون هبت عليه
سلام النيل يا غاندي
واجلال من الاهرام
أتوا اهلهم بالمعجزات تفننا
رجعت لنفسي فاتهمت حصاتي
رموني بعقم في الشباب وليتني
وسعت كتاب الله لفظا وغاية

Q.3:- Fill in the blanks with suitable words given in the brackets.
[5×1=5]

- (العمادة- الفنجان- شعلم شعلم- بخيلا- القاهرة)
1. تركت..... وعدت أستاذا.
2. كان العم سكن..... جدا وأنانيا للغاية.
3. اسقت اختي..... علي الأرضية.
4. فارقي بهذه الرقية وهي.....
5. مقر الجامعة العربية..... عاصمة مصر.

Q.4:- Write down the meaning of any five of the following words.
[5×1=5]

الحمار- العم- اللصوص- الطفيلي- دواء- الطبيب- سيارة- علم الاقتصاد- رجال- كتاب- اللغة العربية- دنانير- الوقت.

Q.5:- Write an essay on anyone of the following in Arabic. [10]

1. مدرستي.
2. كيف أقضي اليوم.
3. القلعة الحمراء.
4. الجامعة الإسلامية عليجرة.

Q.6:- Answer any five of the following questions in Arabic. [5×2=10]

1. اين يقع مقرها الدائم؟
2. ما العصور الأربعة التي مرت على الخلافة العباسية؟
3. ماذا فعل قائد اللصوص؟
4. اذكر اسماء بعض الدول الأعضاء في هيئة الأمم المتحدة؟
5. ماذا قال الطبيب لحميد بعد فحص رشيد؟

6. أين استشهد العديد من القراء؟
7. هل يعمل في هذا المعهد خمسة وعشرون مدرسا فقط؟

Q.7:- Define and illustrate any three of the following. [5×3=15]

1. جملة شرطية
2. اجوف
3. اسماء موصولة
4. جملة ندائية
5. عدد معدود

Directorate of School Education A.M.U. Aligarh
Senior Secondary School Certificate Examination
Annual Exam (2022-23)
Model Question Paper
Class XII
Botany [12BT04]

Maximum Marks: 30

Duration: 90 min.

Note:

- i. All questions are compulsory.
- ii. Section "A" contains multiple choice questions (MCQs) of 1 mark each from Q.1 to Q.5.
- iii. Section "B" contains very short answer type questions of 2 marks each from Q.6 to Q.8 with internal choice.
- iv. Section "C" contains short answer type questions of 3 marks from Q.9 to Q.11 with internal choice.
- v. Section "D" contains long answer type questions of 5 marks each from Q.12 to Q.13 with internal choice.
- vi. Wherever necessary, the diagram should be drawn and labelled properly.
- vii. Marks allotted to each question are mentioned against it.

SECTION- "A"

- Q1. Mass of living matter at a trophic level in an area at any time is called: (1)
- a) Humus
 - b) Standing crop
 - c) Standing state
 - d) Detritus
- Q2. The gene that encodes for Bt protein specific to cotton bollworm is: (1)
- a) Cry IAC
 - b) Cry II Abc
 - c) Cry II AC
 - d) Cry II Ab
- Q3. Conversion of milk to curd improves its nutrition value by increasing the amount of (1)
- a) Vitamin A
 - b) Vitamin D
 - c) Vitamin B12
 - d) Vitamin E
- Q4. In gobar gas the maximum amount is that of (1)
- a) Propane
 - b) Methane
 - c) Butane

- d) Carbondioxide
- Q5. An individual's collection of gene is called----- (1)
- a) Genotype
 - b) Phenotype
 - c) Trait
 - d) Epistasis

SECTION-"B"

- Q6. What is incomplete dominance? Explain it with the help of a suitable cross. (2)
- Q7. Give a brief account of genetically engineered insulin. (2)
- Q8. Why is sewage water treated until the BOD is reduced? (2)

OR

What are biofertilisers? Give two examples

SECTION-"C"

- Q9. What are the advantages of production of Genetically Modified Crops? (3)
- Q10. Explain transformation in Griffith experiment. (3)

OR

Explain the Law of Independent Assortment with the help of a cross.

- Q11. Differentiate between Net Primary Productivity and Gross Primary Productivity. (3)

OR

Justify the importance of decomposers in an ecosystem.

SECTION-"D"

- Q12. Write short note on:
- a) Out breeding devices in Flowering Plants (2.5)
 - b) Double Fertilization. (2.5)

OR

Describe the structure of an anther with the help of diagram.

- Q13. Describe the steps of Protein Synthesis. (5)

OR

Explain Lac Operon with suitable diagrams.

Directorate of School Education A.M.U. Aligarh
Senior Secondary School Certificate Examination
Annual Exam (2022-23)
Model Question Paper
Class XII
Business Studies [12BS04]

Maximum Marks: 75

Duration: Three Hours

Instructions:- (1) Attempt all the questions from each section.

(2) Question 1 -Question 10 carry 01 Mark each.

(3) Question 11 -Question 18 carry 02 Marks each. (20-30 words)

(4) Question 19-Question 25 carry 03 Marks each.(30-50 words)

(5) Question 26-Question 29 carry 07 Marks each. (100-150 words)

SECTION-A (1×10=10)

Q1. Which of the following is a routine activity

(1)

- a) Decentralization
- b) Delegation
- c) formal organization
- d) Informal organization

Q2."Management is what management does". Which feature is referred from the above statement.

(1)

- a) Intangible
- b) Goal oriented
- c) Futuristic
- d) Continuous

Q3.Planning is performed at

(1)

- a) Top Level
- b) Middle Level
- c) Supervisory Level

d) All Level

Q4. Analyzing existing employees is known as

(1)

- a) workload analysis
- b) workforce analysis
- c) Training
- d) Development

Q5. Controlling function of an organization is

(1)

- a) Forward looking
- b) Backward looking
- c) Both a & b
- d) None of these

Q6. The only element of marketing mix which generates revenue is called

(1)

- a) Product mix
- b) Place mix
- c) Price mix
- d) Promotion mix

Q7. The safest instrument of money market is

(1)

- a) Call money
- b) Commercial paper
- c) Commercial bill
- d) Treasury bill

Q8. Grapevine is a form of

(1)

- a) Formal Communication
- b) Lateral Communication
- c) Informal Communication
- d) Barrier to Communication

Q9. Cost of raising funds is known as

(1)

- a) Financial cost
- b) Floatation cost
- c) Cost of Equity
- d) Cost of Debt

Q10. The Provisions of Consumer protection Act came into force from

(1)

- a) 1986
- b) 1987

- c) 1988
- d) 1991

SECTION- B(2×8=16)

Q11. Define Management.

(2)

Q12. Define Method as a type of plan.

(2)

Q13. What do you mean by Business Environment?

(2)

Q14. Define organising as a function of management.

(2)

Q15. State any two features of planning.

(2)

Q16. Name any two consumer grievance agencies.

(2)

Q17. What is meant by 'product mix'?

(2)

Q18. State one advantage of 'formal organization'.

(2)

SECTION-C (3×7=21)

Q19. Explain any three points regarding significance of Principles of Management.

(3)

Q20. Explain any three features of Business Environment.

(3)

Q21. State any three benefits of training to employees.

(3)

Q22. Distinguish between Delegation and decentralization.

(3)

Or

Briefly explain the first three steps of planning process.

Q23. Explain semantic barriers to communication.

(3)

Or

Discuss the relationship between planning and controlling.

Q24. Define controlling. Give any two importance of controlling.

(3)

Or

Discuss Maslow's Need Hierarchy theory of Motivation.

Q25. Explain the objectives of financial planning.

(3)

Or

What is meant by SEBI? Give any two objectives.

SECTION-D(7×4=28)

Q26. Explain the following principles of Management

(7)

(a) Science, not rule of thumb

(b) Discipline

Or

Discuss the concept of 'demonetization'.

Q27. Distinguish between Formal and Informal communication.

(7)

Or

Define staffing process and the various steps involved to it?

Q28. "Capital structure decision is essentially optimisation of risk/return relationship". Comment.

(7)

Or

Discuss the trading procedure in stock exchange.

Q29. Briefly explain some sale promotion techniques.

(7)

Or

Explain all the rights of consumers.

Directorate of School Education A.M.U. Aligarh
Senior Secondary School Certificate Examination
Annual Exam (2022-23)
Model Question Paper
Class XII
Chemistry [12CH04]

Maximum Marks: 60

Duration: Three Hours

General Instructions:

Marks

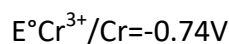
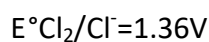
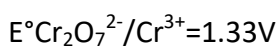
Notes:

- i. All questions are compulsory.
- ii. Marks allotted to each question are mentioned against it

Q.1) Value of Henry's constant k_H _____ (1)

- a) increases with increase in temperature
- b) decreases with increase in temperature
- c) remains constant
- d) first increases then decreases

Q.2) Using the data given below find out the strongest reducing agent. (1)



- a) Cl^-
- b) Cr
- c) Cr^{3+}
- d) Mn^{2+}

Q.3) Which one is the most reactive towards SN^1 reaction? (1)

- a) $\text{C}_6\text{H}_5\text{CH}_2\text{Br}$
- b) $\text{C}_6\text{H}_5\text{CH}(\text{C}_6\text{H}_5)\text{Br}$
- c) $\text{C}_6\text{H}_5\text{CH}(\text{CH}_3)\text{Br}$
- d) $\text{C}_6\text{H}_5\text{C}(\text{CH}_3)(\text{C}_6\text{H}_5)\text{Br}$

Q.4) The product of acid catalysed hydration of 2-phenylpropene is: (1)

- a) 3-phenyl-2-propanol
- b) 1-phenyl-2-propanol
- c) 2-phenyl-2-propanol
- d) 2-phenyl-1-propanol

Q.5) If the rate constant for a first order reaction is k , the time(t) required for the completion of 99% of the reaction is given by: (1)

- a) $t = 2.303/k$
- b) $t = 0.693/k$
- c) $t = 6.909/k$
- d) $t = 4.606/k$

Q.6) Lanthanoid contraction is due to increase in: (1)

- a) Effective shielding of f-electrons
- b) Atomic number
- c) Effective nuclear charge
- d) Atomic radius

Q.7) Which of the following complex is used as an anti-cancer agent? (1)

- a) mer - $[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$
- b) cis - $\text{K}_2[\text{PtCl}_2\text{Br}_2]$
- c) cis - $[\text{PtCl}_2(\text{NH}_3)_2]$
- d) Na_2CoCl_4

Q.8) Which of the following can be used as the halide component for Friedel – Crafts reaction? (1)

- a) Chlorobenzene
- b) Bromobenzene
- c) Chloroethene
- d) Isopropyl chloride

Q.9) Phenol, when it first reacts with concentrated sulphuric acid and then with concentrated nitric acid gives: (1)

- a) nitrobenzene
- b) 2,4,6-trinitrobenzene
- c) o-nitrophenol
- d) p-nitrophenol

Q.10) Purine and pyrimidine bases present in both DNA and RNA are: (1)

- a) Uracil
- b) Thymine
- c) Cytosine
- d) Adenine

Q.11) Explain why on addition of 1 mol of NaCl to 1 litre of water, the boiling point of water increases, while addition of 1 mol of methyl alcohol to 1 litre of water decreases its boiling point. (2)

OR

Q.11') Define the terms osmosis and osmotic pressure. Is the osmotic pressure of a solution a colligative property? Explain. (2)

Q.12) Define Kohlrausch's law. How can it be used to find the degree of dissociation of a weak electrolyte? (2)

Q.13) What is the effect of pH on $\text{K}_2\text{Cr}_2\text{O}_7$ solution? (2)

Q.14) Which acid of each pair shown here would you expect to be stronger: (2)

- i. CH_3COOH or FCH_2COOH
- ii. $\text{FCH}_2\text{CH}_2\text{CH}_2\text{COOH}$ or $\text{CH}_3\text{-CHF-CH}_2\text{COOH}$

Q.15) Predict, giving reasons, the order of basicity of the following compounds in gaseous phase: (2)

- i. $(\text{CH}_3)_3\text{N}$, $(\text{CH}_3)_2\text{NH}$, CH_3NH_2 , NH_3
- ii. $\text{C}_2\text{H}_5\text{NH}_2$, $(\text{C}_2\text{H}_5)_2\text{NH}$, $(\text{C}_2\text{H}_5)_3\text{N}$, C_3NH_2

Q.16) How do you explain the presence of all the six carbon atoms in a straight chain and the presence of five -OH groups in glucose molecule? (2)

Q.17) 19.5 g of CH_2FCOOH is dissolved in 500g of water. The depression in the freezing point observed is 1.0°C . Calculate the van't Hoff factor and dissociation constant of fluoroacetic acid. K_f for water is $1.86 \text{ K kg mol}^{-1}$. (3)

OR

Q.17') Calculate the boiling point of a solution prepared by adding 15.0 g of NaCl to 250 g of water (k_b for water = $0.512 \text{ K kg mol}^{-1}$, molar mass of NaCl = 58.44 g) (3)

Q.18) Give reasons: (1+1+1)

- i. Mn shows the highest oxidation state of +7 with oxygen but with fluorine it shows the highest oxidation state of +4.
- ii. Transition metals show variable oxidation state.
- iii. Actinoids show irregularities in their electronic configuration.

OR

18') Write the preparation of $\text{K}_2\text{Cr}_2\text{O}_7$ from chromite ore. (3)

Q.19) (1+1+1)

- i. Why is it necessary to avoid even traces of moisture during the use of a Grignard reagent?
- ii. Which of the following haloalkanes react with aqueous KOH most easily? Explain giving reasons.
I-Bromobutane or 2-Bromobutane or 2-Bromo-2-methylpropane
- iii. Why is the solubility of haloalkanes in water very low?

OR

Q.19') How can the following conversions be carried out: (1+1+1)

- i. Chloroethane to butane
- ii. 2-chloropropane to 1-propanol
- iii. 2-methyl-1-propene to 2-chloro-2-methylpropane

Q.20) (1+1+1)

- i. Out of o-nitrophenol and p-nitrophenol, which is more volatile? Explain.
- ii. How can propan-2-one be converted to tert-butyl alcohol?
- iii. Write the products obtained when benzyl phenyl ether is heated with HI

Q.21) (1+1+1)

- i. Why cannot aromatic primary amines be prepared by Gabriel phthalimide synthesis?
- ii. Why are aliphatic amines stronger bases than aromatic amines?
- iii. How will you distinguish between $(\text{CH}_3)_2\text{NH}$ and $(\text{CH}_3)_3\text{N}$

OR

Q.21') Accomplish the following conversions: (1+1+1)

- i. Ethanoic acid to methanamine
- ii. Nitrobenzene to benzoic acid
- iii. Aniline to p-bromoaniline

Q.22) (1+1+1)

- i. What is isoelectric point?
- ii. Give one example each of essential and non-essential amino acids.
- iii. Why type of bonding occurs in globular proteins

Q.23)

- i. State Faraday's first law of electrolysis. How much charge in terms of Faraday is required for the reduction of 1 mol of Cu^{2+} to Cu. (2)
- ii. Calculate the emf of the following cell at 298 K: (3)
 $\text{Mg(s)} | \text{Mg}^{2+}(0.1\text{M}) || \text{Cu}^{2+}(0.01\text{M}) | \text{Cu(s)}$
[Given $E^\circ_{\text{Cell}} = +2.71\text{V}$, $1F = 96500 \text{ C mol}^{-1}$]

OR

Q.23')

- i. What is corrosion? Give mechanism (electrochemical phenomenon) of rusting of iron. (2)
- ii. What is a fuel cell? What are its advantages over the other cell? Write the reactions taking place in $\text{H}_2\text{-O}_2$ fuel cell. (3)

Q.24)

- i. Rate constant of a chemical reaction rises to double by increase in temperature of 10°C . Explain with labelled distribution curve. (2)
- ii. The rate constant of a first order reaction increases by four times when the temperature changes from 350 K to 400 K. Calculate the energy of activation of the reaction assuming that it does not

change with temperature

$[R=8.314 \text{ J K}^{-1} \text{ mol}^{-1}, \log 4=0.6021]$ (3)

OR

Q.24')

- i. Write a short note on 'collision theory of reaction rates'. (2)
- ii. Why does the enthalpy of reaction remain constant in the presence of catalyst? (1)
- iii. For a reaction the initial concentration of reactant is 0.4M and rate constant is $2.5 \times 10^{-4} \text{ mol L}^{-1} \text{ s}^{-1}$. Calculate the half life period of the reaction. (2)

Q.25)

- i. Draw cis and trans isomers of $[\text{CoCl}_2(\text{NH}_3)_4]^+$ ion. (1)
- ii. $\text{Cr}[(\text{NH}_3)_6]^{3+}$ is paramagnetic while $[\text{Ni}(\text{CN})_4]^{2-}$ is colourless. Explain. (2)
- iii. On the basis of crystal field theory, write the electronic configuration for d^4 ion if $\Delta_o > P$. (2)

OR

Q.25')

- i. The molar conductivity of the complex $\text{CoCl}_3 \cdot 4\text{NH}_3 \cdot 2\text{H}_2\text{O}$ is found to be same as that of 3:1 electrolyte. What is the structural formula of the complex. (1)
- ii. $[\text{Co}(\text{CN})_6]^{3-}$ and $[\text{CoF}_6]^{3-}$ both are octahedral complexes. Then what is the difference between the two. (2)
- iii. Write the IUPAC name and draw the possible optical isomers of $[\text{CrCl}_2(\text{en})(\text{NH}_3)_2]^+$ ion. (2)

Q.26)

- i. Why acetaldehyde gives aldol condensation while formaldehyde does not. Explain. (3)
- ii. What is haloform reaction? Discuss its utility in organic synthesis. (2)

OR

Q.26')

- i. Write giving chemical equations, a brief account of the following: (3)
 - a) Cannizzaro Reaction
 - b) Rosenmund Reduction
 - c) Gattermann-Koch Reaction

 - ii. How will you distinguish between the following pairs of compounds: (2)
 - a) Phenol and benzoic acid
 - b) Acetic acid and Formic acid
-

Directorate of School Education A.M.U. Aligarh
Senior Secondary School Certificate Examination
Annual Exam (2022-23)
Model Question Paper
Class XII
Computer Science [12CS04]

Maximum Marks: 60

Duration: Three Hours

SECTION-A (1X10=10)

I. MCQ

Q.1 Which one of these is mutable data type? (1)

- (a) String (b) List (c) Integer (d) Tuple

Q.2 What is the output of this code ? (1)

```
print(int("7" + "4"))
```

- (a) 11 (b) 7777 (c) 44444444 (d) 74

Q.3 What is the order of resolving scope of a name in a Python program? (1)

L: Local namespace, E : Enclosing namespace, B : Built-In Namespace, G: Global namespace)

- (a) B G E L (b) L E G B (c) G E B L (d) L B E G

Q.4 The default file-open mode is read mode. (1)

- (a) True (b) False

Q.5 Which of the following is the fastest media of data transfer? (1)

- (a) Co-axial Cable (b) Untwisted Wire (c) Fibre Optic (d) WiFi

Q.6 What is the address size of IPv4? (1)

- (a) 32 bit (b) 64 bit (c) 128 bit (d) 256 bit

Q.7 Duplication of data is known as: (1)

- (a) Inconsistency (b) Redundancy (c) Both a and b (d) None of these

Q.8 What does DML stand for? (1)

- (a) Different Mode Level (b) Data Mode Lane
(c) Data Model Language (d) Data Manipulation language

Q.9 SQL is a programming language. (1)

- (a) True (b) False

Q.10 The SQL built-in function _____ totals values in numeric columns. (1)

- (a) SUM (b) TOTAL (c) ADD (d) PLUS

SECTION-B: (6X2=12)

II. Very short answer type questions.

- Q-11 Which function is used to make a true copy of a List? (2)
- Q-12 What does csv.writer object do? (2)
- Q-13 TCP/IP stands for? (2)
- Q-14 Give two examples of DDL commands. (2)
- Q-15 Which operator performs pattern matching? (2)
- Q-16 What is the result of this code ? (2)
- ```
def print_double (x):
 print(2 ** x)
print_double (3)
```

**SECTION – C (6x3=18)**

**III. Short answer type questions.**

- Q-17 What is a statement? What is the significance of an empty statement? (3)
- Q-18 What all information does a function header give you about the function? (3)
- OR
- What is the difference between the formal parameters and actual parameters?
- Q-19 What is the difference between a regular text file and a delimited text file? (3)
- OR
- Briefly explain primary key and candidate key.
- Q-20 What are the security concerns related to IoT ? (3)
- Q-21 What is Remote Desktop Connection? (3)
- OR
- Briefly explain pickling and unpickling.
- Q-22 Write SQL commands for the following on the basis of given table Library: (3)

**Table : Library**

| No  | Title               | Author    | Type | Pub      | Qty | Price |
|-----|---------------------|-----------|------|----------|-----|-------|
| 1.  | Data Structure      | Lipschutz | DS   | McGraw   | 4   | 217   |
| 2.  | Computer Studies    | French    | FND  | Galgotia | 2   | 75    |
| 3.  | Advanced Pascal     | Schildt   | PROG | McGraw   | 4   | 350   |
| 4.  | Dbase dummies       | Palmer    | DBMS | PustakM  | 5   | 130   |
| 5.  | Mastering C++       | Gurewich  | PROG | BPB      | 3   | 295   |
| 6.  | Guide Network       | Freed     | NET  | ZPress   | 3   | 200   |
| 7.  | Mastering Foxpro    | Seigal    | DBMS | BPB      | 2   | 135   |
| 8.  | DOS guide           | Norton    | OS   | PHI      | 3   | 175   |
| 9.  | Basic for beginners | Morton    | PROG | BPB      | 3   | 40    |
| 10. | Mastering Window    | Cowart    | OS   | BPB      | 1   | 225   |

- (a) Select all the PROG type published by BPB from Library.
- (b) Display a list of all books with Price more than 130 and sorted by Qty.
- (c) Display all the books sorted by Price in ascending order.

OR

Explain View with example

**SECTION – D (4x5=20)**

**III. Long answer type questions.**

Q-23 How are dictionaries different from lists? When are dictionaries more useful than lists? (5)

OR

Write the term suitable for following descriptions:

- (a) A name inside the parentheses of a function header that can receive a value.
- (b) An argument passed to a specific parameter using the parameter name.
- (c) A value passed to a function parameter.
- (d) A value assigned to a parameter name in the function header.
- (e) A value assigned to a parameter name in the function call.

Q-24 For table library given in question no.6, write the output for the following SQL queries: (5)

- a) Select \* from Library where Price>200 AND Qty>3
- b) Select Author, Type, Title as 'Book Title' from Library where Pub='BPB'
- c) Select Distinct Pub from Library

OR

Explain the use of the pass statement. Illustrate it with an example.

Q-25 Explain how domain resolution works. (5)

OR

What are the errors in following code? Correct the code and predict output:

```
total = 0;
def sum(arg1, arg2):
 total = arg1 + arg2;
 print("Total : ", total)
return total;
sum(10, 20);
print("Total:", total)
```

Q-26 What is the difference between hub, switch and router? (5)

OR

What is the purpose of DBMS? Explain.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Economics [12EC04]

Maximum Marks: 75

Duration: Three Hours

**Note:**

- (a) All questions are compulsory.
- (b) Questions 1 – 10 are MCQ, carrying 1 mark each.
- (c) Questions 11 – 18 are very short answer questions, carrying 2 marks each, Answer to these questions should not exceed 30 words each.
- (d) Questions 19 – 25 are short Answer questions, carrying 3 marks each, Answer to these questions should not exceed 50 words each.
- (e) Questions 26 – 29 are long answer questions, carrying 7 marks each, Answer to these questions should not exceed 150 words each.
- (f) The word limit is not applicable to Numerical questions.

**PART – A**

- Q.1. Which of the following is a stock? (1)
- (a) Wealth (b) Saving  
(c) Export (d) Profits
- Q.2. National Income includes: (1)
- (a) Transfer Income (b) Factor Income  
(c) Both (a) and (b) (d) Neither (a) Nor (b)
- Q.3. \_\_\_\_\_ is fixed by RBI: (1)
- (a) Statutory Liquidity Ratio (b) Cash Reserve Ratio  
(c) Both (a) and (b) (d) None of these
- Q.4. Escheats is an example of: (1)
- (a) Capital Receipts (b) Revenue Receipts  
(c) Capital Expenditure (d) Revenue Expenditure
- Q.5. Export of Machine is Recorded on the: (1)
- (a) Debit side of Current Account (b) Credit side of Current Account  
(c) Credit side of Capital Account (d) Debit side of Capital Account
- Q.6. If balance of trade is showing a deficit of Rs. 300 crores and value of exports is Rs. 1200 crores, then value of imports would be: (1)
- (a) Rs. 300 crores (b) Rs. 1200 crores  
(c) Rs. 1500 crores (d) Rs. 900 crores
- Q.7. In which year did the Green Revolution start in India? (1)
- (a) 1967-68 (b) 1980-81  
(c) 1901-02 (d) 1947-48
- Q.8. Tariffs and quotas were fixed under Industrial Policy Resolution 1956 with an objective of: (1)

- (a) Increasing Exports
- (b) Increasing Imports
- (c) Restricting Imports and Protect domestic firms from Foreign Competition.
- (d) To Increase Foreign Competition

Q.9. What is the investment limit for small scale industry at present? (1)  
 (a) One crore (b) Three crores  
 (c) Five crores (d) Ten crores

Q.10. Which of the following is the reason for low human capital formation in India? (1)  
 (a) Brain drain (b) Low academic standards  
 (c) Rising population (d) All of these

**PART – B**

- Q.11. Define money supply: (2)
- Q.12. Distinguish between Revenue Receipts and Capital Receipts (2)
- Q.13. Define Revenue Deficit and Fiscal Deficit. (2)
- Q.14. How did Zamindars exploit cultivators in India during British Rule? (2)
- Q.15. Mention briefly the two adverse effects of the decline of handicraft industries during colonial period. (2)
- Q.16. What is meant by the long term objective of self-reliance? (2)
- Q.17. Write a short note on NITI Aayog. (2)
- Q.18. What do you mean by Land Ceiling? (2)

**PART – C**

Q.19. Calculate Net Indirect Tax: (3)

|                                    |            |
|------------------------------------|------------|
| (i) GNP mp                         | Rs. 7000   |
| (ii) NDPFc                         | Rs. 6200   |
| (iii) Depreciation                 | Rs. 600    |
| (iv) Net Factor Income from Abroad | Rs. (-400) |

OR

Q.19. What are the three phases of circular flow of income? (3)

Q.20. If total deposits created by commercial banks is Rs. 12000 crores and Legal Reserve Requirement is 25%, then calculate the amount of initial deposits. (3)

OR

Q.20. Discuss the function of Central Bank as Banker Agent and Advisor to the Govt. (3)

Q.21. Complete the following table: (3)

| Income | MPC | Saving | APS |
|--------|-----|--------|-----|
| 0      | -   | -90    | -   |
| 100    | 0.6 | -      | -   |
| 200    | 0.6 | -      | -   |
| 300    | 0.6 | -      | -   |

OR

- Q.21. State the meaning of deficient demand, suggest any two monetary policy tools used to reduce deficient demand. (3)
- Q.22. Explain the determination of equilibrium exchange rate in foreign exchange market. (3)
- Q.23. What are the three main sources of human capital formation? (3)
- Q.24. Mention briefly three institutional sources of agricultural finance in India. (3)

OR

- Q.24. What do you mean by sustainable development. (3)  
Q.25. compare the growth in GDP of china, India and Pakistan. (3)

**PART – D**

- Q.26. In what areas the policy of liberalisation was introduced in India. (7)

OR

- Q.26'. Define Goods and Services Tax (GST) and also explain features and structure of GST.

- Q.27. Explain the causes of unemployment in India. (7)

OR

- Q.27'. Describe the important measures taken by the Govt. for Environmental Protection in India.

- Q.28. The equilibrium level of Income in an Economy is Rs. 5000 crores, the Autonomous Consumption Expenditure is equal to Rs. 250 crores, and investment expenditure is Rs. 1000 crores. Calculate (i) consumption Expenditure at Equilibrium level of National Income. (ii) Marginal Propensity to Save (iii) Saving Function (iv) Investment Multiplier (v) Break even level of income. (7)

OR

- Q.28'. Define Investment Multiplier what can be its minimum and maximum value and also explain the working of investment multiplier with the help of numerical example.

- Q.29. From the following data calculate GNP mp by income method & expenditure method. (7)

|                                      |           |
|--------------------------------------|-----------|
| (i) Mixed income of self employee    | Rs. 400   |
| (ii) Compensation of employees       | Rs. 500   |
| (iii) Consumption expenditure        | Rs. 900   |
| (iv) Net factor income from abroad   | Rs. (-20) |
| (v) Net indirect taxes               | Rs. 100   |
| (vi) Consumption of fixed capital    | Rs. 120   |
| (vii) Net domestic capital formation | Rs. 280   |
| (viii) Net export                    | Rs. (-30) |
| (ix) Profit                          | Rs. 350   |
| (x) Rent                             | Rs. 100   |
| (xi) Interest                        | Rs. 150   |
| (xii) Government Expenditure         | Rs. 450   |

OR

- Q.29'. Describe the steps involved in the estimation of National Income by Income Method and also explain its three precautions that must be taken while estimating national income by this method.

Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Elective English [12EO4]

Maximum Marks: 75

Duration: Three Hours

**Note-** All questions are compulsory

**SECTION A (10 Marks)**

Q-1 Read the following passage and answer the following questions given at the end of the passage (1x6)

At least six people have died and 31 others wounded when a pedestrian bridge collapsed near Mumbai's main train station, the latest accident to highlight creaking infrastructure in India's financial capital.

The bridge, which was under repair according to multiple Indian media reports, gave way around 7:30PM (14:00 GMT) on Thursday as rush hour commuters made their way into Chhatrapati Shivaji Terminus. At least three of the dead were woman, Mumbai police spokesman Manjunath singe said. The injured have been taken to hospital.

In a post on twitter, India's Prime Minister Narendra Modi said he was "deeply anguished" by the accident and assured assistance to victim. The state's education minister, Vinod Tawde, said an audit of the bridge's safety was carried out last year. Some minor damage was detected which was yet to be repaired, he told reporters.

India's National Disaster Response Force said it had sent a team to the site over fears that people may be trapped under rubble. The accident came almost two years after at least 22 people died in a rush hour stampede that broke out on a crowded pedestrian bridge connecting two railway stations in central Mumbai in 2017.

Indian railway officials blamed bad weather for causing the deadly stampede despite commuter warning before the tragedy of a disaster waiting to happen. Experts pointed the finger of blame at the railway network's creaking infrastructure, which has long struggled to cope with several million daily passengers.

Some 7.5 million passengers commute in nearly 2,500 trains daily on Mumbai's colonial-era rail network, a lifeline for the city's 20 million residents. However, travelling on it is not without its dangers.

An average of almost 10 people die on the suburban railway every day, either from falling off crowded trains or while crossing the tracks. Commuters say investment in the railway's crumbling infrastructure has not kept up with the city's burgeoning population.

1. What does the bridge collapse highlight?
2. What did state's education minister say about the cause of tragedy?
3. When did a similar tragedy occur before this one in Mumbai?
4. How did the following people respond about the accident:
  - a. Commuters: \_\_\_\_\_
  - b. Railway Officials: \_\_\_\_\_
  - c. Experts: \_\_\_\_\_

Q-2 read the given poem and answer the questions that follow by choosing the options.

(4)

The sun descending in the west  
The evening star does shine  
The birds are silent in their nest,  
And I must seek for mine.  
The moon, like a flower,  
In heaven's high bower,

With silent delight  
Sits and smiles on the night  
Farewell, green fields and happy groves,  
Were flocks have took delight.  
Were lambs have nibbled, silent moves  
The feet of angels bright;  
Unseen they pour blessing,  
And joy without ceasing,  
On each bud and blossom,  
And each sleeping bosom.  
They in every thoughtless nest,  
Where birds are covered warm;  
They visit caves of every beast,  
To keep them all from harm.  
If they see any weeping  
That should have been sleeping  
They pour sleep on their head,  
And sit down by their bed.

1. The evening star rises when
  - a) The sun descends in the west
  - b) The bird leave their nests
  - c) It is midnight
  - d) It is dawn
2. The poet compares the moon to
  - a) A bird in the nest
  - b) A flower
  - c) An angel
  - d) An evening star
3. The angels come down to earth to
  - a) Spread moonlight
  - b) Give blessings and joy
  - c) Make people happy and with joy
  - d) Take blessing and joy
4. Bird nest are described as thoughtless because
  - a) The angels are blessing the birds to be happy
  - b) The birds are covered in the warmth of their nests
  - c) It is made without any thought
  - d) The occupants are asleep without any care

**SECTION B (5 Marks)**

Q3. Transform the following sentence as directed (1x5)

- I. I am known to her. (change Into active voice)
- II. The teacher was reading the newspaper ( change into passive voice)
- III. My servant left me two days back (change into negative sentence)
- IV. She takes lesson in Indian music (change into interrogative sentence)
- V. Switch on the light. (change into passive voice)

**SECTION C (15 Marks)**

Q4.(a) Write an article in about 120 words on “Hate crimes against females” (7 ½)

**OR**

(b) Write a report in about 120 words on “Republic day celebration 2022 at your school”

Q5. Write on an essay on "Benefits of Reading" or "Social Media"

(7 ½)

**SECTION D (35 Marks)**

Q6- Read the given stanza carefully and answer the question that follow:-

(5)

The trees are in their autumn beauty.  
The woodland paths are dry,  
Under the October twilight, the water  
Mirrors are still the sky;  
Upon the brimming water among the stones  
Are nine-and –fifty Swans.

- a) What does the poet say about the trees? (1)
- b) What are water, stone and Swan in this stanza? (2)
- c) When does the water pool mirror the still sky? (1)
- d) Where are Swans found in India? (1)

**OR**

One day you look up and see one of them  
Eyeless, silent, a zigzag sky showing.  
Through the knocked-out clockwork, after a riot,  
A peace-march time bomb , or a precise act  
Of nature in a night of Lightning's.

- a) Who are 'eyeless and silent'? (1)
- b) What is a peace march time bomb? (1)
- c) What is 'a night of Lightning's'? (2)
- d) What is nature's precise act? (1)

Q7. 4(a) Read passage carefully and answer the questions that follow:

(5)

My association with film goes back to the world of childhood. My grandmother had a very large Old apartment in Uppsala. I used to sit under the dining room table there, 'listening' to the sunshine which came in through the gigantic window. The cathedral bells went ding-dong, and the sunlight moved about and 'sounded' in a special way

- I. Since when does the author trace his relationship with films? (1)
- II. What experience did he get there? (2)
- III. Where did the author live? (2)

**OR**

Read the passage carefully and answer the questions that follow-

It is very important to avoid the twin pitfalls of (1) taking democracy to be just a gift of the Western world that India simply accepted when it became independent, and (2) assuming that there is something unique in Indian history that makes the country singularly suited to democracy is intimately connected with public discussion and interactive reasoning. Traditions of public discussion exist across the world, not just in the West. And to the extent that such a tradition can be drawn on, democracy becomes easier to institute and also to preserve.

Questions

- I. Which are twin pitfalls? (2)
- II. What is a complex bond of Indian democracy? (1)
- III. Do you think India has received democracy as gift from western world. (2)

Q8. Answer any four in about 40 words each.

(3x4=12)

- I. Comment on the use of the image of the shadow for the idea the poet wants to convey. (A lecture upon the Shadow)
- II. Point out the difference between the slavery of man to nature and unnatural slavery of man to man. (Freedom)



- III. Why does Milton feel that it is not necessary to part up a monument in stone for Shakespeare? (poem by Milton)
- IV. What are the signs of Eveline's indecision that we see at the hour of departure with Frank neared? (Eveline)
- V. Why did the narrator in 'I sell my Dreams' decide to leave Vienna never to return again?

Q9. Answer any two in about 120-150 words

(6½x2=13)

- a. Why does the author consider the novel superior to philosophy science or even poetry? (why the Novel Matters)
- b. What is the role of the mother in Prakriti's self realization? What are her hopes and fears for her daughter? (Chandalika)
- c. What are the three major issues Amartya Sen discusses in relation to India's dialogic tradition? (The Argumentative Indian)
- d. Why do you think Dr. Margolin had the curious experience at the wedding hall? (A wedding in Brownsville)

**SECTION E (10 Marks)**

Q10. Answer any one of the following questions in about 80 words:

(6)

- I. Quote Tiger's view of God from the text of 'A Tiger for Malgudi'
- II. What idea did the Tiger have of the human beings while at circus? Why did this idea change when he roamed through the streets of the town?

Q11. Answer any one of the following questions in about 50 words:

(4)

- I. How does the tiger eventually attain freedom from the captain? (A Tiger for Malgudi)
  - II. Discuss any one character from 'A Tiger for Malgudi' which you like the most.
-

Directorate of School Education A.M.U., Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam. (2022-2023)  
Model Question Paper  
Class XII  
Elective Hindi [12HN04]

Maximum Marks: 75

Duration: Three Hours

नोट— सभी प्रश्न अनिवार्य हैं।

प्रश्न 1 निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए। 10  
दुख के वर्ग में जो स्थान भय का है, वही स्थान आनन्द-वर्ग में उत्साह का है। भय में हम प्रस्तुत कठिन स्थिति के नियम से विशेष रूप में दुखी और कभी-कभी उस स्थिति से अपने को दूर रखने के लिए प्रयत्नवान् भी होते हैं। उत्साह में हम आने वाली कठिन स्थिति के भीतर साहस के अवसर के निश्चय द्वारा प्रस्तुत कर्म –सुख की उमंग से अवश्य प्रयत्नवान् होते हैं उत्साह से कष्ट या हानि सहने की दृढ़ता के साथ-साथ कर्म में प्रवृत्ति होने के आनंद का योग रहता है। साहसपूर्ण आनंद की उमंग का नाम उत्साह है। कर्म सौन्दर्य के उपासक ही सच्चे उत्साही कहलाते हैं। कर्मों में किसी प्रकार कष्ट या हानि सहने का साहस अपेक्षित होता है उन सबके प्रति उत्कंटापूर्ण आनंद उत्साह के अन्तर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्ध-वीर, दान-वीर, दया-वीर, इत्यादि भेद किए हैं। इनमें सबसे प्राचीन और प्रधान युद्धवीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती।

- क गद्यांश का उचित शीर्षक लिखिए। 02  
ख उत्साह का स्थान क्या है? 02  
ग उत्साह में किसका योग रहता है? 02  
घ सच्चे उत्साही कौन कहलाते हैं? 02  
ङ सबसे प्राचीन भेद कौनसा माना गया है? 02

प्रश्न 2 निम्नलिखित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए। 08

मैंने छुटपन में छिपकर पैसे बोए थे,

सोचा था, पैसों के प्यारे पेड़ उगेंगे

रूप्यों की कलदार मधुर फसलें खनकेंगी,

और फूल-फल कर मैं मोटा सेठ बनूंगा!

पर बंजर धरती में एक न अंकुर फूटा,

बंध्या मिट्टी ने न एक भी पैसा उगला!

सपने जाने कहाँ मिटे, सब धूल हो गए!

मैं हताश हो, बाट जोहता रहा दिनों तक,

बाल कल्पना के अपलक पाँवड़े बिछाकर!

क काव्यांश का उपयुक्त शीर्षक दीजिए। 02

ख कवि ने छुटपन में क्या बोया था? 02

ग कवि ने क्या सोचा था? 02

घ कवि ने कौनसी फसल उगाने का प्रयास किया था? 02

प्रश्न 3. विभिन्न जनसंचार माध्यमों –प्रिंट, रेडियो, टेलीविजन, इंटरनेट से जुड़ी तीन – तीन खूबियों और खामियों को लिखते हुए एक तालिका तैयार करें। (लगभग 120 शब्दों में) 05

अथवा

श्रोताओं या पाठकों को बाँधकर रखने की दृष्टि से प्रिंट माध्यम, रेडियो और टी0 वी0 में से सबसे सशक्त माध्यम कौन हैं ? पक्ष विपक्ष में तर्क दें।

प्रश्न 4. किसी क्षेत्र विशेष से जुड़े व्यक्ति से साक्षात्कार करने के लिए प्रश्न सूची तैयार कीजिए, जैसे—संगीत, चित्रकला, शिक्षा, खेल, अभिनय, साहित्य आदि। (लगभग 80 शब्दों में) 04

अथवा

आप अखबार के मुख पृष्ठ पर कौन से छः समाचार शीर्षक/सुर्खियाँ हेडलाइन देखना चाहेंगे? उन्हें लिखिए।

प्रश्न 5 निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर लगभग 30-30 शब्दों में दीजिए। 05

क पत्रकारीय लेखन क्या है?

ख फीचर क्या है?

ग विशेष लेखन क्या है?

घ जनसंचार माध्यम से क्या तात्पर्य है?

प्रश्न 6 निम्नलिखित पद्यांश की सन्दर्भ सहित व्याख्या कीजिए। 06  
 अरुण यह मधुमय देश हमारा !  
 जहाँ पहुँच अनजान क्षितिज को मिलता एक सहारा।  
 सरस तामरस गर्भ विभा पर – नाच रही तरुशिखा मनोहर।  
 छिटका जीवन हरियाली पर— मंगल कुंकुम सारा!

अथवा

पुलकि सरीर सभों भए ढाढ़े ।  
 नीरज नयन नेह जल बाढ़े ॥  
 कहब मोर मुनिनाथ निबाहा ।  
 एहि तें अधिक कहौं मैं काहा ॥

प्रश्न 7 निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर लिखिए। 04  
 क सागर और बूँद से कवि का क्या आशय है?  
 ख धीरे –धीरे होने की सामूहिक लय में क्या-क्या बँधा है?  
 ग माघ महीने में विरहणी को क्या अनुभूति होती है?  
 घ कोयल और भौरों के कलरव का नायिका पर क्या प्रभाव पड़ता है?

प्रश्न 8 किसी एक कवि का जीवन परिचय लिखिए। 05  
 अज्ञेय, केदारनाथ सिंह, रघुवीर सहाय, तुलसीदास, विद्यापति

प्रश्न 9 निम्नलिखित गद्यांश की सन्दर्भ सहित व्याख्या कीजिए। 06  
 ज्यों – ज्यों में सयाना होता गया, त्यों-त्यों हिन्दी के नूतन साहित्य की ओर मेरा झुकाव बढ़ता गया। क्वींस कालेज में पढ़ते समय स्वर्गीय बा०रामकृष्ण वर्मा मेरे पिताजी के सहपाठियों में थे। भारत जीवन प्रेस की पुस्तकें प्रायःमेरे यहाँ आया करती थी पर अब पिता जी उन पुस्तकों को छिपाकर रखने लगे।

अथवा

शेक्सपीयर के प्रसिद्ध नाटक 'मर्चेंट ऑफ वेनिस' में पोर्शिया अपने वर को बड़ी सुन्दर रीति से चुनती है। बबुआ हरिश्चंद्र के 'दुर्लभ बंधु' में पुरश्री के सामने तीन पेटियाँ हैं— एक सोने की, दूसरी चाँदी की, तीसरी लोहे की। तीनों से एक में उसकी प्रतिमूर्ति है।

प्रश्न 10 निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दीजिए। 04  
 क बालक ने क्यों कहा कि मैं यावज्जन्म लोकसेवा करूँगा ?  
 ख बड़ी बहुरिया का संवाद हरगोबिन क्यों नहीं सुना सका?  
 ग रोगी बालक के प्रति गाँधी जी का व्यवहार किस प्रकार का था?  
 घ शेर के मुँह और रोजगार के दफतर के बीच क्या अन्तर है?

प्रश्न 11 किसी एक लेखक का जीवन परिचय देते हुए उसकी रचनाएँ बताइये। 05  
 रामचंद्र शुक्ल, भीष्म साहनी, असगर वजाहत,

प्रश्न 12 निम्नलिखित में से किसी एक प्रश्न का उत्तर लिखिए। 03  
 क भैरों ने सूरदास की झोंपड़ी क्यों जलाई?  
 ख लेखक बिसनाथ ने किन आधारों पर अपनी माँ की तुलना बत्तख से की है?  
 ग ऐसी कौन सी स्मृति है जिसके साथ लेखक को मृत्यु का बोध अजीब तौर से जुड़ा मिलता है?

प्रश्न 13 विकास की औद्योगिक सभ्यता उजाड़ की अपसभ्यता है। खाऊ उजाड़ू सभ्यता के संदर्भ में हो रहे पर्यावरण के विनाश पर प्रकाश डालिये। 05

अथवा

धरती का वातावरण गरम क्यों हो रहा है? इसमें यूरोप और अमेरिका की क्या भूमिका है? टिप्पणी कीजिए।  
 प्रश्न 14 नाटक किसे कहते हैं? उसके तत्व लिखिए। 05

अथवा

कहानी से क्या तात्पर्य है? स्पष्ट कीजिए।

Directorate of School Education A.M.U  
Senior Secondary School Certificate Examination  
2022-2023  
MODLE PAPER  
CLASS-XII  
ELECTIVE URDU [12UR04]

TIME: 3:00HRS

MM: 75

نوٹ: تمام سوالات کے جوابات لازمی ہیں۔

سوال ۱- مندرجہ ذیل اقتباسات میں سے کسی ایک اقتباس کی تشریح سیاق و سباق کے ساتھ کیجئے۔

(7)

(الف)

کبھی کبھی تو خوبی پر غور کرتے ہوئے یہ خیال پیدا ہوتا ہے کہ اسے صرف لکھنو کا انسان سمجھنا اس کی عظمت اور آفاقیت کی توہین۔ وہ ایسے دور میں پیدا ہوتا ہے جب اس کی صداقت پر شک ہونے لگتا ہے۔ وہ شیکسپیر کو فالسٹاف اور کنگ لیئر کے ظریف کی شکل میں ملا تھا۔ سروینٹسز ایسے ڈان کو نکڑوٹ اور سینکوپائٹسز کے لباس میں پایا تھا۔ سرشار نے اسے خوبی کے بھیس میں ڈھونڈ نکالا اور منشی سجاد حسین نے حاجی بغلول کہہ کر پکارا۔ وہ ہر دفعہ عاقلوں کی دنیا پر تنقید کرنے کے لئے اٹھتا ہے اور اپنی احمقانہ باتوں سے بہت سی ایسی صداقتوں کی طرف اشارہ کر دیتا ہے، سنجیدگی جس کی متحمل نہیں ہو سکتی تھی۔ ہاں، یہ نہ بھولنا چاہیے کہ لکھنو اور سرشار خوبی ہی کو جنم دے سکتے تھے۔

(ب)

ہماری زبان میں ایک ناول ایسا بھی ہے، جسے خاصے کی چیز سمجھا جاتا ہے، لیکن جس کی طرف ابھی تک کوئی توجہ نہیں کی گئی۔ غالباً اس کا ایک سبب یہ بھی ہے کہ اسے محض ایک طوائف کی دلچسپ کہانی سمجھ کر پڑھا جاتا رہا ہے، جس کا نتیجہ یہ ہے کہ اس کے بنیادی اور قابل قدر پہلو نظر سے اوجھل ہو گئے ہیں۔ اس میں کوئی شک نہیں کہ "امراؤ جان" ناول میں ایک اہم کردار کی حیثیت رکھتی ہے۔ لیکن اس سے یہ لازم نہیں آتا کہ وہی اس ناول کا موضوع بھی ہو۔ ناول کی قدر و قیمت کا اندازہ کرنے کے لئے ضروری ہے کہ پہلے اس کے موضوع کو دریافت کیا جائے، یہ اس لئے کہ ہر موضوع چند مخصوص امکانات رکھتا ہے اور اس کے اپنے تقاضے ہوتے ہیں۔

سوال ۲- مندرجہ ذیل حصوں میں کسی ایک کی تشریح سیاق و سباق کے حوالے سے فنی خوبیوں کی نشاندہی کرتے ہوئے کیجئے۔

(8)

(الف)

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| زندگی ہے تو بہر حال بسر بھی ہوگی  | شام آئی ہے تو آئے کہ سحر بھی ہوگی      |
| جب لگیں زخم تو قاتل کو عادی جائے  | ہے یہی رسم تو یہ رسم اٹھادی جائے       |
| یہ شب یہ خیال و خواب تیرے         | کیا پھول کھلے ہیں منہ اندھیرے          |
| اب بھاگتے ہیں سائے عشق بتاں سے ہم | کچھ دل سے ہیں ڈرے ہوئے کچھ آسماں سے ہم |

(ب)

کھول آنکھ، زمیں دیکھ، فلک دیکھ، فضا دیکھ  
 اس جلوۂ بے پردہ کو پردوں میں چھپا دیکھ  
 مشرق سے ابھرتے ہوئے سورج کو ذرا دیکھ  
 ایام جدائی کے ستم دیکھ، جفا دیکھ  
 بے تاب نہ ہو، معرکہ نبیم ورجا دیکھ

(ج)

- خدا بخشے اسے بس دوست کا رہتا تھا وہ جو یا  
 اب اس کے نیک و بد کا ذکر کرنا ہی نہیں اچھا  
 تو نکلا دوست اک آخر خداوند کریم اس کا  
 کہ روشن ہے خدا پر عالم امید و بیم اس کا  
 سوال ۳- درج ذیل اصناف میں سے کسی ایک صنف پر روشنی ڈالیے۔  
 افسانہ، غزل، نظم  
 سوال ۴- "بجوکا" یا "میں وہ" یا "مچھر" میں سے کسی ایک کا تجزیہ کیجئے۔  
 سوال ۵- "ارتقا" یا "زندگی سے ڈرتے ہو" یا ملک بے سحر و شام میں سے کسی ایک کا تجزیہ کیجئے  
 سوال ۶- "مرحوم کی یاد میں" کا خلاصہ مع حوالہ کیجئے

یا

ناول "بیوہ" کا مرکزی خیال لکھئے۔

- سوال ۷- مندرجہ ذیل سوالات میں سے دو کے جواب تحریر کیجئے۔  
 ۱- چیرویاکوف کو ایک صاحب اخلاق انسان کیوں کہا گیا؟  
 ۲- سبق "مرحوم کی یاد میں" مصنف نے بائیسکل کو دریا میں کیوں پھینک دیا؟  
 ۳- چیرویاکوف کی موت کا سبب کیا ہے؟  
 ۴- افسانے کا نام "جنم دن" کیوں رکھا گیا ہے؟  
 سوال ۸- مندرجہ ذیل میں سے پانچ سوالوں کے جواب دیجئے۔  
 ۱- افسانہ "سکون کی نیند" کا مرکزی خیال کیا ہے؟  
 ۲- خوبی اور آزاد کے کردار میں مطابقت ہے؟  
 ۳- ڈاکٹر خالص نے جدید شاعری کی کیا خصوصیات بتائی ہیں؟  
 ۴- جنگ آزادی کی تاریخ میں جلیاں والا باغ کی کیا اہمیت ہے؟  
 ۵- امر اوجان ادا کے کردار پر روشنی ڈالیے؟

- ۶- ایک اچھے سفر نامے میں کیا کیا خوبیاں تلاش کرتے ہیں؟
- ۷- شہزادے نے ملک ہوا میں کیا دیکھا؟
- ۸- فوٹو گرافر افسانے میں زندگی کس حقیقت کو بیان کیا گیا ہے؟
- ۹- خودنوشت اور آپ بیتی کی تعریف بیان کیجئے؟
- ۱۰- ڈاکٹر عبدالعلیم کے کردار کی کیا خصوصیات بیان کی گئی ہیں؟
- سوال ۹- مندرجہ ذیل سوالات میں سے دس کے جواب دیجئے۔
- ۱- جمیل مظہری کی کون سی نظم آپ کے نصاب میں شامل ہے؟
- ۲- پودے کے مصنف کون ہیں؟
- ۳- سکون کی نیند کس کا افسانہ ہے؟
- ۴- افسانہ بچو کا کس افسانوی مجموعے سے لیا گیا ہے؟
- ۵- "آگ کا دریا" کس کا ناول ہے؟
- ۶- خورشید الاسلام کے کسی ایک شعری مجموعے کا نام لکھیے؟
- ۷- خوبی- ایک مطالعہ کے مصنف کون ہیں؟
- ۸- نظم گورِ غریباں کے شاعر کا نام لکھیے؟
- ۹- بانگِ درا کس کا شعری مجموعہ ہے؟
- ۱۰- جاں نثار اختر کے کسی ایک شعری مجموعے کا نام لکھیے؟
- ۱۱- "بیوہ" کس کا ناول ہے؟
- ۱۲- عمیق حنفی کی نظم کا نام لکھیے؟
- ۱۳- "ترقی پسند تحریک" کا آغاز کب ہوا؟
- ۱۴- آزاد نظم کس کو کہتے ہیں؟
- ۱۵- "برگ نے" کس کا شعری مجموعہ ہے؟

Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
English Core [12EN04]

Maximum Marks: 75

Duration: Three Hours

**Instructions:**

- Attempt all sections.
- Follow the word limit

**Section A. (15 marks)**

QA\_1. Read the passage given below and answer the questions that follow :.

(8)

My dad and I both started playing tennis at the same time in 1967. Though I was small for my age, I was fast on my feet and seemed to have an instinct for where my opponent would hit his next shot. At the age of nine, I put on my white shorts and shirt and started playing in tennis tournaments around the New York area. By the time I was 12, I was No. 7 in the 5 country in the under-12 category. When I was 16, I won my first national singles title. Then, in 1977, as a chubby faced 18-year old with brown ringlets and a red headband, I came out of nowhere to reach the semifinals at Wimbledon. Though I wouldn't have told a soul back then, that's when I realized I had the potential to be the best tennis player in the world.

**10** I worked my way up the ranks and by 1979, I was world No. 3, hunting down Jimmy Connors and Bjorn Borg. I was winning a lot and I loved it—loved being the lone gunfighter. I won the US Open in both '79 and '80. Then, more and more, the problem became that almost everybody was somebody I shouldn't lose to. There was so much pressure to win in the early rounds of tournaments and make it to the finals. To conquer the pressure, I tried **15** building defences that almost nothing (and nobody) could get through.

But behind my defences were "some very dark places. There was always a devil inside me that I had to fight against. And that devil was fear of failure.

Eventually I had made it to the finals at Wimbledon that year, earning the rematch I'd badly wanted with Borg. Though I'd beaten the great, smooth Swede in last year's US **20** Open, Borg had won Wimbledon an incredible five times in a row, including against me. I got off to a sluggish start. I was tight, over impressed with the occasion. Borg won the first set, 6-4.

As I loosened up, the match turned into a dog fight. I won a tie breaker in the second set, and the third set was going in that direction too. Underneath my nerves and my **25** certainty that I had to play every point to my utmost, a strange idea was starting to materialise: He's not quite as hungry as last year. This match is mine to take, if I can take it. After that, I knew in my bones that I was going to win, and I did. The final score was 4-6, 7-6, 7-6, 6-4. When I beat Borg at the US Open a few months later, I officially replaced him as world **30** No. 1. I had thought that No. 2 was a pretty big deal. But No. 1 was a very strange place indeed—the peak of the mountain, the icy winds blowing around my head.

For four years I was the biggest winner in men's tennis.

- a) At what age, do you think, John McEnroe started playing tennis? (2)
- b) What two distinctive qualities did the author possess at a tender age.? (2)
- c) How did he look when he reached the Wimbledon semi-finals? What did he realise about himself? (2)

**d) Find words in the passage that means**

(a) hidden qualities (lines 5 to 15).

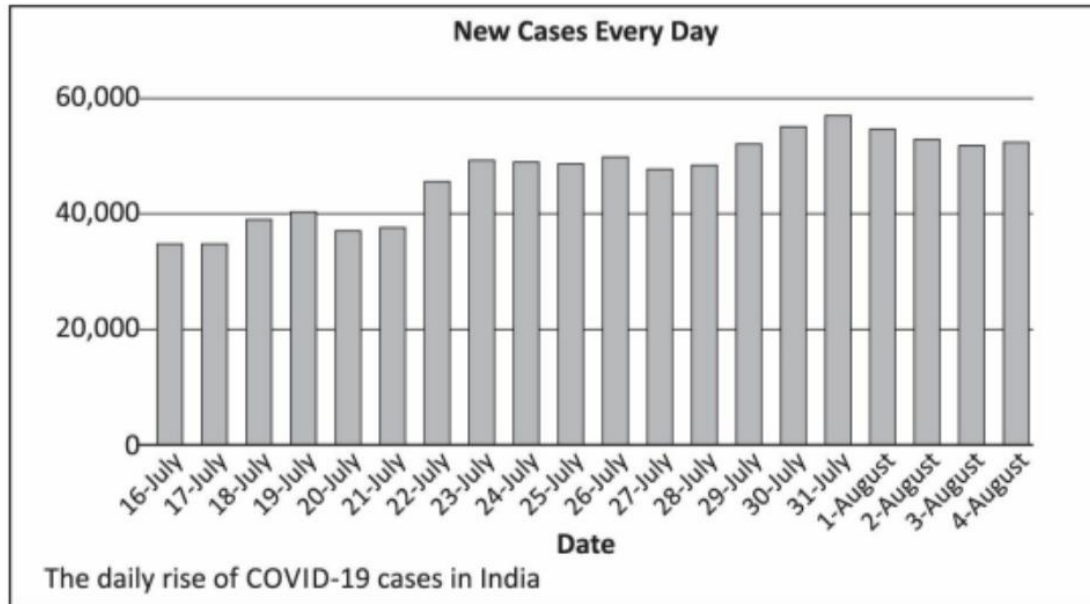
(1)

(b) impossible to believe (lines 15 to 25)

(1)

QA-2 Read the given passage and the graph and answer the questions that follow:

(7)



With novel Coronavirus spreading rapidly all over the country there are only three states right now Meghalaya, Sikkim and Andaman and Nicobar Islands that have less than 1000 people infected with the disease. Lakshadweep of course still has not reported even a single case till now. The only region in India entirely free of the epidemic.

Otherwise even the smaller states now have significantly large spread of the disease. Goa for example has seen more than 7000 of its people infected by the virus till now. Tripura has over 5,500 cases while Manipur has over 3000 and Nagaland a little less than 2500. Pondicherry has more than 4000 cases while even Daman and Diu has over 1300 people infected.

And in each of these states the numbers are rising at a faster pace at a rate higher than the national level. The infections had initially reached in the first and second week of May when the lockdown was relaxed for the first time to enable people stuck in different parts of the country to return to their native places.

After a period of a very slow growth the number of cases have begun to rise rapidly in the last month. In Goa for example the total number of infected people has nearly doubled in the last 15 days. Same has happened in Puducherry as well.

Tuesday was one of those rare occasions when the number of active cases in the country those who are yet to recover from the disease went down compared to the previous day. That is because the number of recoveries combined with the number of deaths exceeded the new cases that were detected on Tuesday.

With over 52,000 new cases detected in the country the total number of infections crossed 19 lakhs out of which 12.82 lakh people have recovered from the disease. The number of dead is now close to 40,000.

Choose the correct option and answer the questions



- I) How are these three states Meghalaya, Sikkim and Andaman and Nicobar Islands different from the rest of India? (1)
- a) They are the only states having less than 1000 people infected with Coronavirus
  - b) They are three of the five states having less than 1000 people infected with Coronavirus
  - c) They are the only states which have more than 1000 people infected with Coronavirus
  - d) None of these
- II) Which date in the graph shows the highest jump of detected cases in a day? (1)
- a) July 30
  - b) July 31
  - c) August 1
  - d) August 2
- III) Of the 19 lakh infection cases how many have recovered? (1)
- a) 11.82 lakh
  - b) 13.82 lakh
  - c) 12.82 lakh
  - d) 12.84 lakh
- IV) What is common among Goa, Tripura, Sikkim, Daman and Diu? (1)
- a) The numbers are rising at a fast pace at rates lower than the national level
  - b) The numbers are falling at a fast pace at rates equal with the national level
  - c) The numbers are rising at a fast pace at rates higher than the national level
  - d) None of these
- V) On which day 40,000 cases were reported in the country? (1)
- a) 18 July
  - b) 19 July
  - c) 20 July
  - d) 16 July

Answer in brief the following questions

V) How is the situation in Lakshadweep different from rest of India related to Coronavirus cases? (1)

VI) Why was the lockdown relaxed in May? (1)

### SECTION -B Writing (20 marks)

Q.3. You are Seema/ Sahil Secretary of the English Literary Association of Tagore Memorial School, Patna. Write out a notice for the noticeboard in about 50 words inviting names of students who would like to participate in the proposed inter-house debate contest (5)

OR

Q.3' You are Raj /Asha. As President of the Dramatic Club of your school; you have organised an inter-school competition in one-act plays on the occasion of the Silver Jubilee celebrations of your school. Write a notice in about 50 words, informing the students of your school about the event.

Q.4 You are a student of Newton Public School, Nagpur. The school is holding its annual function. The HRD Minister Dr M.M. Joshi has consented to be the chief guest. Design an invitation card to be sent to the parents and other invitees. Do not exceed 50 words (5)

OR

Q.4' You are Sameer /Sara . You have been invited to participate in a seminar on 'Fundamental Rights of Children', organized by the Lions Club of your district. Respond to the invitation by writing a letter to the Secretary of the club in about 50 words.

Q.5 Write a letter in about 125 to 150 words to the Editor of The National Herald, New Delhi about water scarcity in your locality and the problems faced by the people, suggesting ways to improve the position of water supply. You are Raj/ Reema of Ghaziabad. (5)

OR

Q.5' You are Chetan Sharma, a commerce graduate from Delhi University. You are seeking a suitable job. You came across an advertisement in The Times of India, inviting young and dynamic fresh graduates as sales assistants in a reputed company. Apply for the said job to Box No. 8365, C/o The Times of India, New Delhi. Invent necessary details and also prepare a bio-data

Q.6 Write an article in about 120 -150 words on the the topic ' Crucial role of mobile phones'. (5)

OR

Q.6' You are Amit / Anu of Spring Bells School Agra . Recently your school celebrated Environment Week Give details of the celebrations in a report of about 120-150 words.

### SECTION C. ( Literature 40 marks)

Q.7 Read the lines given below and answer the questions .:

What I want should not be confused

With total inactivity

Life is what it is about

I want no truck with death

- Name the poem and the poet ? (2)
- What does the poet not want to be confused with? (2)
- Explain what the poet means by saying, 'I want no truck with death. (2)

OR

Driving from my parents

home to Cochin last Friday

morning I saw my mother beside me

doze, open mouthed, her face ashen like that

of a corpse and realised with pain

That she was as old as she looked but soon

Put that thought away

- a) Name the poem and the poet? (2)
- b) What does the poet notice about her mother? (2)
- c) Which thought does she put away? (2)

Q.8 Read the paragraph and answer the questions

Because one night, fussing with my stamp collection, I found\_ Well, do you know what a first day cover is? When a new stamp is issued, stamp collectors buy some and use them to mail envelopes to themselves on the very first day of sale, and the postmark proves the date.

- a) Name the lesson from which the extract has been taken? (1)
- b) Who is referred to as 'I' in the above text? (1)
- c) What do stamp collectors do when a new stamp is issued? (2)

OR

Early this year I found myself aboard a Russian research vessel\_ the Academic Shokalskiy\_ heading towards the coldest, driest, windiest continent in the world: Antarctica.

- a) Name the lesson from which the extract has been taken? (1)
- b) What was the name of the Russian ship? (1)
- c) Where was the author going? Describe the place? (2)

Q.9 Read the extract and answer the questions

It had happened when I was ten or eleven years old I had decided to learn to swim. There was a pool in Y.M.C.A in Yakima that offered exactly the opportunity.

- a) Name the lesson? Who is the narrator of the above lines? (2)
- b) Where had he decided to learn swimming and why? (2)
- c) What had happened when the narrator was ten or eleven years old? (2)

OR

Q.9' One dark evening as he was trudging along the road he caught sight of a little gray cottage by the roadside, and he knocked on the door to ask for shelter for the night.

- a) Name the lesson from which the extract has been taken? Who is referred to as "he"? (2)
- b) What did he see and where? (2)
- c) What did he do and why? (2)

Q.10 Answer any five of the following questions in about 40\_50 words each. (5x2=10)

- a) How is a thing a joy forever?( A thing of beauty)
- b) How did Franz's feelings for M.Hamel change? (The last lesson)
- c) How did the instructor build a swimmer out of Douglas?(Deep water)
- d) What made the peddler think that he had indeed fallen into a rattrap? ( The rattrap)
- e) Why was Rajkumar Shukla described as resolute? ( Indigo)
- f) Why do most celebrity writers despise being interviewed? ( The interview)

Q.11 Answer any two of the following questions in about 40\_50 words each. (2x2 =4)

- a) Did the old general lack national loyalty? Was it a case of dereliction of duty? (The enemy)
- b) What do you infer from Sam's letter to Charley?(The third level)
- c) Bama's experience is that of a victim of caste system. What was her response to the situation? (Memories of childhood)

Q.12 Answer any one of the following questions in about 120\_150 words. (1x5=5)

What forces conspire to keep the workers' in the bangle industry of Firozabad in poverty? ( Lost Spring)

OR

Why was Kothamangalan Subbu considered No.2 in Gemini studios?( Poets and pancakes)

Q.13 Answer any one of the following questions in about 120 \_150 words. (1x5=5)

Do you think the third level was a medium of escape for Charley ? Why ? (The third level)

OR

What is it that draws Derry towards Mr.Lamb inspite of himself?( On the face of it)

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Entrepreneurship [12EP04]

Maximum Marks: 75

Duration: Three Hours

NOTE:

1. All questions are compulsory
2. SECTION A (MCQ) carry 1 mark each
3. SECTION B very short answer questions carry 2 marks each
4. SECTION C short answer questions carry 3 marks each
5. SECTION D long answer questions carry 7 marks each

**SECTION A (1 mark each)**

- Q1. Business opportunity relates with..... (1)
- a) Commercially feasible projects.
  - b) Personal feasible projects
  - c) Both a & b
  - d) None of the above
- Q2. .... is the business that sells directly to the final customer for final satisfaction. (1)
- a) Manufacturing
  - b) Retail
  - c) Wholesale
  - d) None
- Q3. "The people working in a firm makes it what it is" is quoted by (1)
- a) John H. Johnson
  - b) H.C. Calvert
  - c) Prof. L.H. Haney
  - d) Hicks and Gullet
- Q4. Display of information about a product on its container is called as..... (1)
- a) Brand
  - b) Labelling
  - c) Packaging
  - d) Tagline
- Q5. The activity of attracting public attention to a product or business is known as..... (1)
- a) Customer relation
  - b) Negotiation
  - c) Sales strategy
  - d) Advertising
- Q6. Which among the following is the reason for merger and acquisition? (1)
- a) Boardroom split
  - b) Poor business fit
  - c) Tax benefits
  - d) High leverage
- Q7. Money needed to fund the normal day to day operations of business is..... (1)
- a) Fixed capital
  - b) Working capital
  - c) Revenues
  - d) None of the above
- Q8.  $\text{Net Income} / \text{Equity} * 100$  is used to calculate.... (1)
- a) ROI

- b) ROE  
 c) Interest on loan  
 d) None of these
- Q9. A private equity that finance startup companies and small businesses that have high growth potential in long run are known as.... (1)  
 a) Capital market  
 b) Primary market  
 c) Venture capital  
 d) Angel investors
- Q10. Venture capital financing is the subset of ..... equity. (1)  
 a) Public  
 b) Private  
 c) Public and private both  
 d) none

**SECTION B (2 marks each)**

- Q11. What is idea generation? (2)  
 Q12. Why private companies are more desirable? (2)  
 Q13. State the features of a good business plan. (2)  
 Q14. What is the purpose of LOGO? (2)  
 Q15. What is acquisition? (2)  
 Q16. What is SKU? (2)  
 Q17. What do you understand by finance? (2)  
 Q18. Name two players of capital market. (2)

**SECTION C (3 marks each)**

- Q19. Why do we need to scan the environment? (3)  
 Or  
 Discuss the various elements of innovation process
- Q20. Write a short note on any two of the following components of Financial Plan (3)  
 a) Performa investment decision  
 b) Performa balance sheet  
 c) Break-even point
- Q21. Write the steps for preparing marketing plan? (3)  
 Or  
 Production plan aims at” plan your work”, whereas operational plan ensures “work your plan”. Discuss
- Q22. Discuss different tools of promotion. (3)  
 Q23. Explain meaning and types of synergy. (3)  
 Q24. Who are angel investors? Highlight their important features. (3)

Or

What do you understand by capital market? How can the capital market in India be broadly classified into different categories?

- Q25. Determine the unit of sale and calculate unit price from the following information. (3)

| Number of customers | Per customer billed amount (Rs.) |
|---------------------|----------------------------------|
| 12                  | 2,200                            |
| 20                  | 3,000                            |
| 8                   | 2,000                            |
| 10                  | 3,500                            |

Or

What is gross profit? Write its formulae.

**SECTION D (7 marks each)**

Q26. "If you don't adapt, you don't endure" evaluate the validity of the statement. (7)

Or

Explain in detail Idea Fields

Q27. What do you mean by skimming pricing policy? What are its advantages and disadvantages? (7)

Or

What is Marketing Mix? Explain its components?

Q28. What is meant by franchising? Highlight the disadvantages of franchising to franchisee. (7)

Or

Explain the types of acquisition.

Q29. From the following information calculate variable cost per unit and BEP per unit. (7)

|                                       |              |
|---------------------------------------|--------------|
| Sales                                 | Rs. 2,50,000 |
| Direct labor cost ( for 100 units)    | Rs. 25,000   |
| Direct material cost ( for 100 units) | Rs. 62,500   |
| Direct expenses cost ( for 100 units) | Rs. 12,500   |
| Fixed expenses                        | Rs. 75,000   |

Or

Explain in detail ABC Analysis of Inventory control

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Environmental Science [12ES04]

Maximum Marks: 75

Duration: Three Hours

**INSTRUCTIONS:**

- All questions are compulsory.
- Section A contains 10 MCQs of 1 mark each. Select the most appropriate answer from the given options.
- Section B contains 8 questions of 2 marks each.
- Section C contains 7 questions of 3 marks each.
- Section D contains 4 questions of 7 marks each.

**SECTION- A**

Marks

Q1. Resources found only in specific regions are known as:

(1)

- a) Potential resource
- b) Actual resource
- c) Renewable resource
- d) Limited resource

Q2. Food security law came in the year:

(1)

- a) 1973
- b) 1983
- c) 1993
- d) 2013

Q3. Which is not a primary pollutant:

(1)

- a) Ozone
- b) Sulfur dioxide
- c) Nitrogen dioxide
- d) Carbon monoxide

Q4. Which of the following states has highest irrigation coverage:

(1)



- a) Haryana
- b) Punjab
- c) Bihar
- d) Uttar Pradesh

Q5. Which of the following was the part of green revolution strategy: (1)

- a) HYV seeds
- b) Chemical fertilizers
- c) Irrigation
- d) All of the above

Q6. JFM was established in the year: (1)

- a) 1988
- b) 1983
- c) 1987
- d) 1986

Q7. EPR stands for:

- a) Expressed potential resource (1)
- b) Extended producer responsibility
- c) Exposed population report
- d) None of the above

Q8. Ozone is present in which layer of atmosphere: (1)

- a) Troposphere
- b) Stratosphere
- c) Exosphere
- d) Ionosphere

Q9. Earth first was established in the year: (1)

- a) 1988
- b) 1986
- c) 1980
- d) 1999

Q10. Which of the following was included as a part of land reforms initiated in India: (1)

- a) Abolition of intermediaries
- b) Tenancy reforms
- c) Reorganization of agriculture
- d) All of the above

**SECTION-B**

- Q11. Define GDP and GNP. (2)
- Q12. Write advantages of physical accounting. (2)
- Q13. Name different factors regulating population size. (2)
- Q14. Differentiate BOD and COD. (2)
- Q15. Why Gandhi ji was in favor of establishing cottage industries? (2)
- Q16. Enlist different urban environmental problems. (2)
- Q17. Define EPR with example. (2)
- Q18. What is natural capital? (2)

**SECTION-C**

- Q19. What is the impact of globalization on development? (3)
- OR
- Q19'. Write a note on ecofeminism. (3)
- Q20. Differentiate between push and pull factors. (3)
- OR
- Q20'. Differentiate between Economic growth and economic development.
- Q21. Differentiate between r and k strategies (3)
- OR
- Q21'. Enlist salient features of project tiger. (3)
- Q22. How ozone layer is depleted? (3)
- OR
- Q22'. Write note on ODS.
- Q23. Write a note on deep ecology. (3)
- Q24. Explain in brief about carbon credit. (3)
- Q25. Explain any two traditional rainwater harvesting methods. (3)

**SECTION-D**

- Q26. What is exsitu conservation. Mention its advantages and disadvantages. (7)
- OR
- Q26'. Write a note on different methods of food preservation.
- Q27. Write short note on: (7)
- a) Green politics in Germany
- OR
- b) Green politics in England (7)
- Q28. Explain traffic management in Curitiba. (7)
- OR
- Q28'. Explain in detail about international aid.
- Q29. Discuss the instrumental photometric technique to monitor air. (7)
- OR
- Q29'. Explain different types of soil indicators.
-



Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Fine Arts [12FA04]

MAX MARKS: 30

DURATION: 2 HOURS

*Note: All questions are compulsory. Marks of each question are indicated against it.*

1. Please answer all the below Multiple Choice Questions 4x1
- i. "Haldi Grinders" is a painting by
    - a) M. F. Hussain
    - b) Amrita Sher Gill
    - c) Jaminy Roy
    - d) Raja Ravi Varma
  - ii. "Falcon on a bird rest" is a painting by which school
    - a) Mughal School
    - b) Rajput School
    - c) Pahari School
    - d) Deccan School
  - iii. "Krishna on swing" is a painting by which school
    - a) Mewar
    - b) Jodhpur
    - c) Bikaner
    - d) Kishangarh
  - iv. 'KANGRA' is a sub school of
    - a) Deccan School
    - b) Pahari School
    - c) Bengal School
    - d) Rajput School
2. Who painted "Journey's End"? 1
3. "Guman" is related to which school? 1
4. Write any two names of the Indian Sculptors. 2
5. Name any two paintings of Pahari School. 2
6. What is the painting technique that Bengal School is famous for? 2
7. Define Miniature Painting? 2
8. Name any two sub-schools of Rajput school. 2
9. Name any two paintings of Deccan school. 2

OR

Name any two painted manuscripts of Mughal School.

10. What are the similarities and dissimilarities between Rajput and Mughal miniature paintings? 4
11. Describe the evolution of Indian National Flag 4
12. Describe the origin and development of Rajput School 4

OR

Describe the main features of Mughal School of Miniature Painting

Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Geography [12GG04]

Maximum Marks: 60

Duration: Three Hours

**NOTE: i) Read the instructions carefully.**

**ii) Marks are allotted against each question.**

**iii) All questions are compulsory.**

**A. Give a Single Term/Word for the Following. (1x10=10)**

- Q1. Who gave the concept of Stop and Go Determinism? (1)
- Q2. Which approach was prevailing in 1990's? (1)
- Q3. Psephology is the sub- field of? (1)
- Q4. Which part of Russia is served by Moscow- Vladivostok highway? (1)
- Q5. Which country has Gross National Happiness as the measure of country's progress? (1)
- Q6. Coffee Fazendas are found in? (1)
- Q7. A meeting point of two or more routes is called as? (1)
- Q8. Katanga Zambia Copper belt is found in? (1)
- Q9. How much population have increased in the past 500 hundred years? (1)
- Q10. What are the pillars of Human Development? (1)
- a) Equity
  - b) Sustainability
  - c) Productivity
  - d) Empowerment
  - e) All of the above

**B. Answer the following questions in about 30- 40 words.**

- Q11. Explain briefly the Trans- Canadian Railway? (2)
- Q12. Which countries are connected by Panama Canal and how is it important for the trade? (2)
- Q13. What is the Balance of Trade? (2)
- Q14. What is the difference between a port and Harbour? (2)
- Q15. What is the function of World Trade Organisation? (2)
- Q16. How the Great Lakes have proved to be an eminent means of Inland Navigation? (2)

**OR**

Difference between Quinary and Quarternary Activities?

**C. Answer the following questions in about 50-100 words.**

Q17. Explain briefly the characteristics of Digital divide and how it is affecting India? (3)

**OR**

What are the different factors affecting tourism?

Q18. Explain briefly why the Traditional Large Scale Industrial regions are called as smoke-stack industries? (3)

**OR**

How 'Manufacturing' Industry is different from 'Manufacturing Industry'?

Q19. Difference between Co-Operative and Collective Farming? (3)

**OR**

Discuss the characteristics of Mixed Farming?

Q20. What are the different types of farming in Indian Agriculture? (3)

**OR**

Explain briefly the agricultural land use conditions in India?

Q21. Discuss the different functional classification of Indian towns? (3)

Q22. What are the different watershed Management Programs taken up for the conservation of water resources? (3)

**D. Answer the following questions in about 100- 180 words.**

Q23. What are the different emerging water problems? (5)

**OR**

How agriculture has developed in India after Independence?

Q24. Why land transport proves to be more important than the other means. Elaborate with examples? (5)

**OR**

Explain the different problems faced by Slums in India?

Q25. Discuss briefly the different pollutions prevailing in our country? (5)

**OR**

Explain the different phases of the growth of population in India?

Q26. What are the different Non-Conventional Sources of Energy and how they can be regarded as an alternate means of energy? (5)

**OR**

Explain briefly the consequences of Indira Gandhi Canal Command Area and what measures could be taken for the promotion of Sustainable Development?

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
History [12HS04]

Maximum Marks: 75

Duration: Three Hours

**SECTION-A (1X10)**

**Attempt all questions.**

- Q.1** Who deciphered Brahmi and Kharoshti script? (1)  
(a) James Princep (b) Cunningham  
(c) Wheeler (d) John Marshall
- Q.2** Eklavya was:- (1)  
(a) Nishada (b) Suvarnakara  
(c) Chandala (d) None of the above
- Q.3** Where did Buddha attain enlightenment? (1)  
(a) Lumbini (b) Sarnath  
(c) Gwalior (d) Bodhgaya
- Q.4** Who wrote 'Kitab-ul-Hind'? (1)  
(a) Al-Beruni (b) Ibn-Battuta  
(c) Francois Bernier (d) None of the above
- Q.5** Nayanars were devotee of:- (1)  
(a) Lord Vishnu (b) Lord Shiva  
(c) Lord Brahma (d) None of the above
- Q.6** When was Hampi declared as the place of national importance? (1)  
(a) 1980 (b) 1982  
(c) 1986 (d) 1976
- Q.7** Who introduced Permanent settlement? (1)  
(a) Lord Curzun (b) Lord Dalhousie  
(c) Lord Cornwallis (d) Lord William Bentinck
- Q.8** Mahatma Gandhi returned from South Africa to India:- (1)  
(a) 1901 (b) 1910  
(c) 1911 (d) 1915
- Q.9** The constitution of India came into effect on:- (1)  
(a) 26 January 1947 (b) 26 January 1949  
(c) 26 January 1950 (d) 26 January 1953

- Q.10** The number of members in the constituent Assembly were:- (1)  
(a) 300 (b) 380  
(c) 320 (d) 200

**SECTION-B (2X8)**

**II Attempt all questions.**

- Q.11** Who was James Princep? (2)  
**Q.12** What do you mean by the term 'Kula' and 'Jati'. (2)  
**Q.13** What do you know about 'Tripitaka'? (2)  
**Q.14** Who was Francois Bernier? Name the book written by him (2)  
**Q.15** What was 'Qual'? By whom it was introduced? (2)  
**Q.16** What are the main sources for reconstructing the history of Vijayanagara Empire? (2)  
**Q.17** Between whom the battle of Talikota fought? (2)  
**Q.18** What was Permanent Settlement? (2)

**SECTION-C (7X3)**

**Note:- Answer the following questions in about 30-50 words each.**

- Q.19** Write a short note on rise of Magadha? (3)  
**Q.20** What was Gotra? Mention any two rules about Gotra. (3)  
**Q.21** Mention the teachings of Mahatma Buddha. (3)  
**Q.22** What problems did Al-Beruni face in understanding Indian customs and practices. (3)

OR

Who is known as globe-trotter and why?

- Q.23** Who were Lingayats? What were their beliefs? (3)

OR

How and when did Sufis settle in India?

- Q.24** Mention the immediate consequences of the Permanent Settlement. (3)

OR

What was Fifth report?

- Q.25** What did Constituent Assembly recommend to resolve the problems of untouchables? (3)

OR

Who presented the 'objective Resolution' in the Constituent Assembly? Why was it a historic resolution?



**SECTION-D (4X7)**

**Note:- Answer the following questions in about 100-150 words each.**

**Q.26** Describe some of the distinctive features of Mohenjodaro. (7)

OR

List the raw materials required for craft production in the Harappan civilization and discuss how these might have been obtained.

**Q.27** What are the problems in using Ain-i-Akbari as a source for reconstructing agrarian history? How do historians deal with this situation. (7)

OR

How were the lives of forest dwellers transformed in 16<sup>th</sup> and 17<sup>th</sup> centuries.

**Q.28** Discuss the causes of discontent among soldiers leading to the mutiny? (7)

OR

What steps did the British take to quell the uprising.

**Q.29** In what way did Mahatma Gandhi transform the nature of national movement? (7)

OR

Examine how was the Quit India movement genuinely a mass movement.

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- Q.14 Name the four types of fashion design careers available in designing industry. (2)  
Q.15 What are the two methods of feeding the patients? (2)  
Q.16 Why is consumer education important? (2)  
OR  
Q.16' Write any four establishments (places) that provide hospitality management.

### Section – C (6X3=18 marks)

- Q.17 What is food fortification? Write down its main objectives. (3)  
Q.18 Explain the various benefits of ergonomics. (3)  
Q.19 Elaborate the various stages of guest cycle of hotels. (3)  
OR  
Q.19' Define the following terms – Consumer Problems,  
Consumer Rights and  
Consumer Protection Act.  
Q.20 Discuss the balance principle of art and design? Mention its various types? (3)  
OR  
Q.20' 'Washing of clothes is both a science and an art'. Discuss this statement.  
Q.21 What are the various methods of preserving food items? (3)  
OR  
Q.21' Explain the concepts of toxicity and hazards under food safety in detail.  
Q.22 What is a Crèche? How are they different from 'Day Care'? (3)  
OR  
Q.22' Explain any three methods used in development communication.

### Section – D (4X5=20)

- Q.23 What do you understand by the term fashion merchandising? Describe four ways of market segmentation. (5)  
OR  
Q.23' Discuss the various elements of art and design in detail.  
Q.24 What is the importance of good nutrition? How does illness affect nutritional status of a person? (5)  
OR  
Q.24' Explain in detail the various factors responsible for spoilage or destruction of food items.  
Q.25 Describe any two programmes each for children, youth and elderly people. (5)  
OR  
Q.25' Discuss the importance of early childhood care and education.  
Q.26 What are standardised marks? Why should we buy products with standardised marks? (5)  
OR  
Q.26' Explain the basic concept of hospitality management in hotels.
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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Mathematics [12MM04]

Maximum Marks: 75

Duration: Three Hours

General Instructions:

Marks

Note: -

- i. All questions are compulsory.
- ii. Internal choices have been provided in some questions.
- iii. Question number 1 to 10 are of one mark each. Question number 11 to 18 one of two marks each. Question number 19 to 25 are of three marks each. Question number 26 to 29 are of seven marks each.
- iv. Do not use graph paper in question number 29.
- v. Use of calculators, mobile phones and other electronics devices are not permitted.

Q1) If a set A contains 5 elements and set B contains 6 elements, then number of one-one and onto mappings from A to B is: (1)

- a) 0                                      b) 60                                      c) 120                                      d) 600

Q2) The range of function  $f(x) = \frac{|x-1|}{(x-1)}$  is: (1)

- a) {0,1}                                      b) {-1,0}                                      c) {-1,1}                                      d) {-1,2}

Q3) If R is a relation on set R of real numbers defined as  $R = \{(a, b) : a < b\}$  then R is: (1)

- a) Reflexive                      b) Symmetric                      c) Transitive                      d) None of these

Q4) If the area of triangle with vertices (-3, 0), (3, 0) and (0, k) is 9 sq. units, then the value of k will be: (1)

- a) 9                                      b) 3                                      c) -9                                      d) 6

Q5) The value of 'k' for which the function: (1)

$$f(x) = \begin{cases} \frac{(x+3)^2 - 36}{x-3}, & x \neq 3 \\ k, & x = 3 \end{cases}$$

is continuous at  $x=3$  is

- a) 0                                      b) 1                                      c) 10                                      d) 12

Q6) The anti-derivative of  $\int \sec x (\sec x + \tan x) dx$  is: (1)

- a)  $\sec x + \tan x + C$                                       b)  $\tan x - \sec x + C$   
c)  $x - \tan x + C$                                       d)  $x + \operatorname{cosec} x + C$

Q7) The degree of differential equation: (1)

$$1 + \left(\frac{dy}{dx}\right)^2 = x \text{ is}$$

a) 0

b) 1

c) 2

d) 3

Q8) If  $x, j, k$  are unit vectors along three mutually perpendicular directions then: (1)

$i, j = 1$

b)  $i \times j = 1$

c)  $i \cdot k = 0$

d)  $i \times k = 0$

Q9) If a line makes angles  $90^\circ, 135^\circ$  and  $45^\circ$  with  $x, y$  and  $z$  axes respectively then its direction cosines are: (1)

a)  $(0, \frac{-1}{\sqrt{2}}, \frac{1}{\sqrt{2}})$

b)  $(1, \frac{-1}{\sqrt{2}}, \frac{1}{\sqrt{2}})$

c)  $(0, \frac{1}{\sqrt{2}}, \frac{-1}{\sqrt{2}})$

d)  $(1, \frac{1}{\sqrt{2}}, \frac{-1}{\sqrt{2}})$

Q10) Two cards are drawn at random without replacement one by one from a well shuffled pack of 52 cards. The probability that one is red and other is black is: (1)

a)  $\frac{26}{51}$

b)  $\frac{25}{51}$

c)  $\frac{1}{4}$

d)  $\frac{25}{102}$

Q11) Let  $f: \mathbb{N} \rightarrow \mathbb{N}$  be defined by (2)

$$f(x) = \begin{cases} \frac{n+1}{2}, & \text{if } n \text{ is odd} \\ \frac{n}{2}, & \text{if } n \text{ is even} \end{cases}, \text{ for all } n \in \mathbb{N}.$$

Find whether the function 'f' is bijective.

Q12) Let  $A = \begin{bmatrix} 2 & -1 \\ 3 & 4 \end{bmatrix}$ ,  $B = \begin{bmatrix} 5 & 2 \\ 7 & 4 \end{bmatrix}$ ,  $C = \begin{bmatrix} 2 & 5 \\ 3 & 8 \end{bmatrix}$ . Find matrix D such that (2)

$$CD - AB = 0.$$

Q13) If A and B are symmetric matrices such that AB and BA are defined, then prove that AB - BA is skew symmetric matrix. (2)

Q14) Find the value of determinant. (2)

$$\Delta = \begin{vmatrix} x+y & y+z & z+x \\ z & x & y \\ -3 & -3 & -3 \end{vmatrix}$$

Q15) Differentiate the function (2)

$$y = \tan^{-1} \left( \frac{1 + \cos x}{\sin x} \right) \text{ with respect to } x.$$

Q16) Show that the lines  $\frac{x+1}{3} = \frac{y+3}{5} = \frac{z+5}{7}$  and  $\frac{x-2}{1} = \frac{y-4}{3} = \frac{z-6}{5}$  intersect. (2)

Q17) A bag contains 5 red, 2 white and 3 black balls. Three balls are drawn at random one by one without replacement. Find the probability of distribution of white balls. (2)

Q18) A bag contains 4 balls. Two balls are drawn without replacement. What is the probability that all balls in bag are white. (2)

Q19) Find the value of (3)

$$\cos^{-1} \left( \frac{\sqrt{3}}{2} \right) + \cos^{-1} \left( \frac{-1}{2} \right).$$

20) Solve the following system of equations by matrix method.

$$\begin{aligned}x-y+2z &= 7 \\ 2x-y+3z &= 12 \\ 3x+2y-z &= 5\end{aligned}\tag{3}$$

Q21) If  $x = a(2\theta - \sin 2\theta)$   
 $y = a(1 - \cos 2\theta)$

Find  $\frac{dy}{dx}$  when  $\theta = \frac{\pi}{3}$ .

Q22) Solve the differential equation.

$$(y+3x^2) \frac{dx}{dy} = x$$

OR

Q22') Solve  $2x^2 \frac{dy}{dx} - 2xy + y^2 = 0$ .

Q23) Integrate  $\int \frac{2\cos x}{(1-\sin x)(1+\sin^2 x)} dx$ .

OR

Q23') Integrate  $\int \sin x \sin 2x \sin 3x dx$ .

Q24) Evaluate  $\int_{-1}^2 |x^3 - x| dx$ .

OR

Q24')  $\int_0^{\pi} \frac{x \tan x}{\sec x + \tan x} dx$ .

Q25) Find the value of  $\lambda$  so that the lines

$$\frac{1-x}{3} = \frac{7y-14}{\lambda} = \frac{z-3}{2} \text{ and } \frac{7-7x}{3\lambda} = \frac{y-5}{1} = \frac{6-z}{5}$$

are at right angles.

Or

Q25') Find the vector equation of a line passing through the point (1, 2, -1) and parallel to the line whose equation is  $5x-25 = 14-2y = 35z$ .

Q26) Using integration, find the area bounded by the circle  $x^2 + y^2 = 16$ .

Or

Q26') Using integration find the area bounded by the ellipse  $\frac{x^2}{9} + \frac{y^2}{4} = 1$ .

Q27) Show that the height of a right circular cylinder of greatest volume which can be inscribed in a right circular cone of height 'h' and radius 'r' is one third of the height of the cone.

Or

Q27') Find the intervals in which the function  $f(x) = \sin 3x - \cos 3y$ ,  $0 < x < \pi$  is strictly increasing or strictly decreasing.

Q28) If  $(i + j + k)$ ,  $(2i + 5j)$ ,  $(3i + 2j - 3k)$  and  $(i - 6j - k)$  are position vectors of points A, B, C, D respectively then find the angle between vectors AB and CD.

Or

Q28') If a, b and c are three mutually perpendicular vectors of same magnitude, prove that  $a+b+c$  is equally inclined in vectors a, b and c.

Q29) Solve the following LPP graphically.

Minimize  $Z = 5x + 10y$

(7)

Subject to constraints  $x+2y \leq 120$ ,  $x+y \geq 60$ ,  $x-2 \geq 0$  and  $x, y \geq 0$

Or

Q29` Solve the following LPP graphically

Maximize  $Z=x+2y$

Subject to constraints

$x+2y \geq 100$ ,  $2x-y < 0$ ,  $2x+y \leq 200$ ,  $x, y \geq 0$ .

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Directorate of School Education A.M.U  
Senior Secondary School Certificate Examination, 2022-2023  
**MODEL PAPER (Exam Paper)**  
**CLASS-XII**  
**ELECTIVE PERSIAN [12PRO4]**

**TIME: 3:00HRS**

**MM: 75**

**NOTE: All questions are compulsory.**

**Q1. Translate any TWO of the following passage into Urdu or Hindi or English: (10×2=20)**

(الف)

نخست وزیر ہند، اولین رہبر این کشور کہ در طول سی و شش سال گذشتہ از چین دیدار می کند، دیروز در بدو ورود بہ پکن خواستہ ((آغاز نو)) در روابط دو کشور شد و قول داد کہ منازعات دیر پای دو کشور بہ طریقی صلح جویانہ حل فصل شود. گزارش یونایتد پرس بہ نقل از ((شین ہوا))، خبر گزارى رسمى چین حاکیست: گاندی بہ مدت چندین ساعت با نخست وزیر چیندر مورد مسائل مختلف مورد علاقہ دو کشور مذاکرہ کرد و روی این نکتہ کہ اختلافات دو طرف بر سر مرزہای مشترک دو کشور همچنان آزار دہندہ ترین مسئلہ در روابط چین و ہند است.

(ب)

روی ان اخبار روایت کنند کہ پادشاهی بود با مال و نعمت، دو وزیر داشت یکی بدنہاد. این پادشاه پسری داشت بہ ہمہ ہنر ہا آراستہ، بہ نام احمد، باپسر وزیر نیک سرشت کہ ملک جمشید نام داشت بہ یک مکتب می رفتند و بی یکدیگر آرام نداشتند تا آنکہ وزیر نیک سرشت در گذشت و جای او را بہ ملک جمشید دادند. پادشاه نیز سفر آخرت کرد و ملک احمد بہ پادشاهی نشست. چون پادشاه بہ ملک جمشید محبت تمام داشت، وزیر بدنہاد با خود گفت کہ: این پسر عن قریب مرا بہ کشتن می دہد، باید کہ کار او را بسازم.

(د)

ہر دو باہم آمدند و زر نیافتند. شریک زیرک دست در گریبان مغفل زد کہ زر تو بردہ ای و کسی دیگر خبر نداشتہ است. بیچارہ سوگند می خورد کہ نبرده ام، البتہ سود نداشت تا او را بہ سرای حاکم برد و زر دعوی کرد و قصہ باز گفت. قاضی پرسید کہ گواہی یا حجتی داری؟ گفت: درختی کہ در زیر آن نہادہ ایم گواہی دہد کہ زر این خائن بی انصاف بردہ است و مرا محروم گردانید. قاضی را این سخن شہمت آمد.

**Q2. Explain any FIVE of the following verses:**

(5×2=10)

دل مثل یک غروب، غمین است و گوشہ گیر  
گم می شود میان نفیر کلاغ پیر  
پتک غمی است احساسہای خواب  
بستہ است چشم پنجرہ ہا دور از آفتاب  
بای کسی بہ گرد سواران نمی رسد  
دست کسی بہ دامن باران نمی رسد

وقتی کہ عشق نیست تو گویی نیست  
بر شاخہ ہای کاخ، صغیر پرندگان  
وقتی کہ عشق نیست ہیا ہوی کودمان  
از بر کہ ہا نسیم نموری نمی وزد  
گستراست وقتی کہ عشق نیست سکون سایہ  
در شہر ریشہ ہا شر و شور عطش بپاست

**Q3. Attempt any five sentences into Persian:**

(5×1=5)

- ۱- سدا کا خط میز پر نہیں ہے۔
- ۲- بچے گھر کے اندر ہیں۔
- ۳- وہ سب کمرے میں تھے۔
- ۴- میں اپنے دوست کو بہت پسند کرتا ہوں۔
- ۵- رافع نے اس کو قلم دیا۔
- ۶- وہ بہت ذہین لڑکا ہے۔



**Q4. Attempt multiple choice questions:****(5×1=5)**

- ۱- در نهمین اجلاس وزرای نفت چند تا کشور بود ؟  
 (الف) یک (ب) شش (ج) دو (د) هفت
- ۲- وقتی که عشق نیست از کدام مجله ماخوذ است ؟  
 (الف) ناهید (ب) اطلاعات (ج) کیهان فرهنگی (د) داستنیها
- ۳- کنیزکان فرعون از کجا آمدند ؟  
 (الف) دبستان (ب) لب رود (ج) مدرسه (د) کنار دریا
- ۴- دیلم و سپید رود در کجا هست ؟  
 (الف) گیلان (ب) تهران (ج) تبریز (د) بابل
- ۵- شبان مرد چه می کرد ؟  
 (الف) خدمت (ب) لانت (ج) نصیحت (د) ملامت

**Q5. Attempt any THREE of the following questions in short Answers:****(3×3=9)**

- ۱- آسیه برای آزمایش عقل کودک چه کرد ؟
- ۲- نخست وزیران دو کشور چه چیزی را متعهد شده اند ؟
- ۳- چرا در نظر شاعر بهشت از آسمان به زمین آمده است ؟
- ۴- سر انجام کار چه شد ؟

**Q6. Attempt any SIX of the following Singular \ Plural:****(6×1=6)**

دختر ، پسران ، شاگرد ، گریه ، مداد ، خودکار ، درخت ، طفلان ، سگ ، کاغذ

**Q7. Define and illustrate any two of the following:****(5×2=10)**

Write the definition of Muzare (مضارع) with Gardan .

Write the definition of Mazi Natamam (ماضی ناتمام) with Gardan.

Write the definition of Fail Amar (فعل امر) with Gardan.

**Q8. Write an essay on any one of the following in Persian:****(10)**

۱- تاج محل

۲- دبیرستان ما

۳- کتاب مفید

Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Physical Education [12PE04]

Maximum Marks: 60

Duration: Three Hours

**General Instructions:**

1. All questions are compulsory.
2. The question paper consists of 4 sections and 26 Questions.
3. Section A consists of questions 1-10 carrying 1 mark each and is multiple choice questions.
4. Section B consists of questions 11-16 carrying 2 marks each and are very short answer type questions.
5. Section C consist of question 17-22 carrying 3 marks each and short answer type questions.
6. Section D consists of 23-26 carrying 5 marks each and long answer type questions.

**(SECTION-A)**

Marks

- Q1. Bye is given when (1)
- a) There are large number of teams.
  - b) League tournament.
  - c) Advantage not to play in first-round.
  - d) There are odd number of teams.
- Q2. Osteoporosis is associated with (1)
- a) Bones
  - b) Ligaments
  - c) Blood
  - d) None of the above
- Q3. Benefit of Supta vajra Asana are (1)
- a) Control Diabetes
  - b) Cures Chronic Back pain
  - c) Cures Kyphosis
  - d) Reduces Stress and Hypertension
- Q4. Who is Controlling body of paralympics? (1)
- a) IOC & IOA
  - b) IPC & PCI
  - c) SOI & SOB
  - d) All

Q5. Pellagra is caused by the deficiency of vitamin: (1)  
a) B1  
b) B2  
c) B12  
d) B3

Q6. What is the weight of dumbbell for men in arm curl of Rikli and Jones Test? (1)  
a) 5 pounds  
b) 6 pounds  
c) 8 pounds  
d) 10 pounds

Q7. The other name of Hairline fracture is: (1)  
a) Stress fracture  
b) Transverse fracture  
c) Oblique fracture  
d) Greenstick fracture

Q8. A football kicked from penalty point is an example of which Law of Motion? (1)  
a) Law of Action and Reaction  
b) Law of Acceleration  
c) Law of Inertia  
d) All

Q9. Which of the following is a legitimate behavior? (1)  
a) Hostile Aggression  
b) Instrument Aggression  
c) Assertiveness  
d) Proactive Aggression

Q10. Pace Run method is: (1)  
a) Running short distance at top speed  
b) Running fast for long distance  
c) Shuttle run  
d) All of the above

**(SECTION-B)**

Q11. What is the procedure of placing the teams in each quarter on a knock out basis? (2)

Q12. Write about deformities of spinal curvature. (2)

Q13. Discuss the procedure of Vakrasana (2)

Q14. Discuss the symptoms of SPD. (2)

Q15. Explain water as a component of balance diet. (2)

Q16. Define cardiovascular fitness. (2)

**(SECTION-C)**

Q17. Make a Knock-out fixture for 12 teams. (3)

OR

Make a League fixture for 7 teams. (3)

Q18. Which type of deformity is Kyphosis? (3)

OR

How Lordosis can be cured through exercise?

Q19. What are the causes of Asthma, how it can be cured through yoga? (3)

OR

Explain the method to prevent Asthma.

Q20. Write note on Sir Ludwig Guttmann. (3)

OR

Explain three Strategies to make physical activities assessable for CWSN.

Q21. Discuss about Deficiency Diseases caused by Vitamins. (3)

Q22. Explain briefly the test for evaluating the Leg Strength & Endurance of administration. (3)

**(SECTION-D)**

Q23. Describe the management of Strain and Sprain Injury. (5)

OR

Explain the treatment steps for Contusion, Abrasion and Injury.

Q24. Discuss Frictional Force What are its advantages and disadvantages? (5)

OR

Differentiate between abduction and adduction.

Q25. What are the Various techniques of motivation? (5)

OR

Explain in detail about personality traits.

Q26. Write a detailed note on circuit training. (5)

OR

What is movement speed? Explain the methods to develop speed endurance.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Physics [12PH04]

Maximum Marks: 60

Duration: Three Hours

General Instructions:

Marks

- i. There are 26 questions. All questions are compulsory
  - ii. Questions from 1 to 10 are MCQ of 01 mark each.
  - iii. There is no overall choice. However internal choices have been provided.
  - iv. Questions from 11 to 16 are very short answer type of 02 marks each.
  - v. Questions from 17 to 22 are short answer type of 03 marks each.
  - vi. Questions from 23 to 26 are long answer type of 05 marks each.
  - vii. Use of calculator is allowed.
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- Q1. When air is replaced by a medium of dielectric constant  $K$  the force of attraction between two charges separated by a distance  $r$  (1)
- (a) decreases  $K$  times (b) remains unchanged  
(c) increases  $K$  times (d) increases  $K^2$  times
- Q2. If current flowing in a conductor increases by 10 %, then power consumption will increased by (1)
- (a) 10% (b) 2% (c) 1% (d) 100%
- Q3. A positively charged particle enters a uniform magnetic field with uniform velocity, making an angle other than  $90^\circ$  with the direction of the field. The path of the particle in the field will be: (1)
- (a) circular (b) parabolic (c) helical (d) straight line
- Q4. Electromagnetic waves are produced by (1)
- (a) a static charge (b) a uniformly moving charge  
(c) an accelerated charge (d) neutral particles
- Q5. The amplitude of electric and magnetic fields in an electromagnetic wave are related to each other as (1)
- (a)  $E_0=B_0$  (b)  $E_0=c B_0$  (c)  $E_0=B_0/c$  (d)  $E_0=c/B_0$
- Q6. A convex lens of power +6 dioptr is placed in contact with a concave lens of power -4 dioptr. What will be the nature and focal length of this combination? (1)
- (a) concave, 25cm (b) convex, 50cm  
(c) concave, 20cm (d) convex, 100cm
- Q7. The critical angle for a medium with respect to air is  $45^\circ$ . The refractive index of medium is (1)
- (a) 1.41 (b) 1.2 (c) 1.5 (d) 2
- Q8. Which one of the following phenomena is not explained by the Huygen's (1)

construction of wavefront?

(a) reflection (b) reflection (c) diffraction (d) origin of spectra

- Q9. The de Broglie wave corresponding to a particle of mass  $m$  and velocity  $v$  has a wavelength associated with it (1)  
(a)  $h/mv$  (b)  $hmv$  (c)  $mh/v$  (d)  $m/hv$
- Q10. A small impurity is added to germanium to get p type semiconductor. This impurity is a (1)  
(a) bivalent substance (b) trivalent substance  
(c) pentavalent substance (d) monovalent substance
- Q11. When a series LCR circuit is brought into resonance, the current in the circuit increases to a large value. Why? (2)
- Q12. Two lenses producing linear magnifications  $m_1$  and  $m_2$  are joined together to form a lens combination. What is the magnification  $m$  of the combination? (2)
- Q13. An astronomical telescope of magnifying power 7 consists of two thin lenses 40 cm apart, in normal adjustment. Calculate focal lengths of the lenses. (2)
- Q14. Define stopping potential. How it is related to the kinetic energy of photoelectrons? (2)
- Q15. What is the nuclear radius of  $^{125}\text{F}$ , if that of  $^{27}\text{Al}$  is 3.6 fermi? (2)
- Q16. What are intrinsic and extrinsic semiconductors? (2)
- Q17. Define the term electric dipole moment. What is the direction of field intensity at a point (i) on axial line of a dipole and (ii) on equatorial line of a dipole. (3)
- Q18. Consider a uniform electric field  $E=3 \times 10^3 \hat{i} \text{ NC}^{-1}$ . Calculate the flux of this field through a square of surface of area  $10 \text{ cm}^2$  (3)  
(i) when its plane is parallel to Y-Z plane.  
(ii) when normal to its plane makes angle of  $60^\circ$  with x-axis.

OR

18' Two positive point charges of  $0.2 \mu\text{C}$  and  $0.01 \mu\text{C}$  are placed 10cm apart. Calculate the work done in reducing the distance to 5cm.

- Q19. An  $\alpha$  particle of mass  $6.65 \times 10^{-27} \text{ kg}$  is travelling at right angles to a magnetic field with speed of  $6 \times 10^5 \text{ ms}^{-1}$ . The strength magnetic field is 0.2 T. calculate the force on the  $\alpha$  particle and its acceleration. (3)

OR

19' A galvanometer with coil resistance  $12 \Omega$  shows a full scale deflection for a current of 2.5 mA. How will you convert it into a voltmeter of rang 7.5V? Also find the total resistance of volt meter formed.

- Q20. In Young's double slit experiment, the fringe-width of  $\lambda=6000 \text{ \AA}$  is 2.0mm. What will be the fringe-width if the entire apparatus is immersed in a liquid of refractive index 1.33? (3)

OR

20' A screen is placed at a distance of 1.5 m from a fine slit, illuminated by light of wavelength  $5000 \text{ \AA}$ . If the first minimum on either side of the central maximum is at a distance of 5mm from it, find the width of the slit.

- Q21. Write Bohr's three postulates for atomic model. (3)
- Q22. Distinguish among metals, insulators and semiconductors on the basis of (3)

their energy band diagram

OR

22' Draw the circuit diagram for p-n junction diode as full-wave rectifier. Also draw the input and output waveform.

Q23. State the Kirchhoff's laws of electric circuits and using these laws find relation between the resistances of four arms of a Wheatstone bridge when the bridge is balanced. (5)

OR

23' Define the term drift velocity and relaxation time. Deduce a relation between them.

Q24. State Bio-Savart law, deduce expression for the magnetic field due to current carrying circular loop of radius  $a$  at point which is at distance  $x$  from the centre along the axis of the loop. (5)

OR

24' Deduce an expression for the torque acting on a rectangular current loop kept in uniform magnetic field.

Q25. Define self inductance and give its SI unit. Derive expression for self Inductance of a long air cored solenoid of length  $l$ , radius  $r$  and having  $N$  no. of turns. (5)

OR

25' What is alternating current? Show that the average value of a.c. for half cycle is  $2i_0/\pi$  where  $i_0$  is peak value of current.

Q26. With the help of ray diagram show formation of image of a point object by refraction of light at convex spherical surface separating two media of refractive indices  $\mu_1$  and  $\mu_2$  ( $\mu_2 > \mu_1$ ) respectively. Using this diagram derive the relation (5)

$$\frac{\mu_2}{v} - \frac{\mu_1}{u} = \frac{\mu_2 - \mu_1}{R}$$

OR

26' Draw a ray diagram of a compound microscope and establish formula for its magnifying power for the case when the final image is formed at the least distance of distinct vision.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Political Science [12PL04]

Maximum Marks: 75

Duration: Three Hours

**INSTRUCTIONS:**

- (i) All questions are compulsory.
- (ii) Marks are indicated against each question.
- (iii) Q. No. 11 to 18 is of 2 marks.
- (iv) Answer to Q. No. 19 to 25 should be 30-40 words.
- (v) Answer to 26 to 29 should be 100-150 words.

- Q.1. In which year Globalization began in India? (1)
- Q.2. Where is the Headquarter of United Nations located? (1)
- Q.3. When is Environment Day Celebrated? (1)
- Q.4. In which year did Bangladesh came into existence? (1)
- Q.5. When was the states reorganization Act was passed? (1)
- Q.6. In which year the Election Commission of India was established? (1)
- Q.7. Write the name of two countries which signed the treaty of “Panchsheel”? (1)
- Q.8. Name the currency of European Union? (1)
- Q.9. In which state ‘Green Revolution’ was first introduced? (1)
- Q.10. What was the first basic objective of India’s five year plan? (1)
- Q.11. What do you mean by ‘Hegemony’? (2)
- Q.12. What is ASEAN VISION 2020? (2)
- Q.13. Briefly explain the term ‘Disarmament’? (2)
- Q.14. What is ‘Open Door Policy’? (2)
- Q.15. Explain the term ‘Shock Therapy’? (2)
- Q.16. What do you mean by regional parties? (2)
- Q.17. What is Panchsheel? (2)
- Q.18. What do you mean by ‘Operation Enduring Freedom’? (2)
- Q.19. Explain any three merits and three demerits of the Green Revolution? (3)



Q.20. Write the consequences of partition of India? (3)

OR

Merits of two party system.

Q.21. What are the objectives of NITI Aayog? (3)

OR

Briefly discuss the objectives of SAARC.

Q.22. Explain the basic principles of India's Foreign Policy. (3)

OR

Explain the causes of ethnic conflict in Sri Lanka.

Q.23. What is the Kashmir issue? (3)

OR

Describe the Ram Manohar Lohia's Socialism?

Q.24. Write a short note on Global Terrorism. (3)

OR

What do you mean by Unipolar world.

Q.25. What do you mean by Global Warming? (3)

OR

Briefly discuss the political conflict over language.

Q.26. What do you mean by Globalization? Discuss its impacts. (7)

OR

Discuss the objectives and functions of BRICS. (7)

Q.27. Discuss the organization and functions of Security Council. (7)

OR

Discuss the Punjab Crisis.

Q.28. Discuss the organization and functions of European Union? (7)

OR

Explain the ASEAN and its main objectives.

Q.29. Discuss the causes of disintegration of Soviet Union. (7)

OR

Discuss India's Relations with Pakistan.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Psychology [12PS04]

Maximum Marks: 60

Duration: Three Hours

**NOTE: This question paper contains 4 sections, i.e. A, B, C and D. Read instructions given in each section and answer accordingly.**

**SECTION – A**

**There are TEN (10) questions in this section. All questions are compulsory and carry 01 mark each.**

- Q1. Who proposed 'Uni-factor theory of Intelligence'? (1)  
a) Alfred Binet      b) Charles Spearman      c) J.P. Guilford      d) Gardener
- Q2. What type of Stress are catastrophic events or disasters like fire, earthquake, floods etc.?(1)  
a) Physical      b) Psychological      c) Environmental      d) Social
- Q3. \_\_\_\_\_ disorder have been linked to low activity of the neurotransmitter GABA. (1)  
a) Depression      b) Anxiety      c)Schizophrenia      d) Eating
- Q4. Who developed 16 PF (Personality Factor) Questionnaire? (1)  
a) Eysenck      b) Allport      c) Cattell      d) Costa
- Q5. Which is the first step in Rational Emotive Therapy (RET)? (1)  
a) ABC analysis      b) Non-directive questioning      c) empathy      d) cognitive distortion
- Q6. Pro-social behaviour may get reduced when the number of bystanders is more than one. This phenomenon is called \_\_\_\_\_. (1)  
a) Reciprocity      b) social responsibility  
c) Empathy      d) diffusion of responsibility
- Q7. Which type of intelligence may also be called as 'street smartness' or 'business sense'? (1)  
a) Componential Intelligence      b) Experiential Intelligence  
c) Contextual Intelligence      d) Naturalistic Intelligence

Q8. Which is the last stage of General Adaptation Syndrome (GAS)? (1)

- a) Exhaustion      b) Resistance      c) Alarm Reaction      d) Burnout

Q9. \_\_\_\_\_ is a phenomenon by which the majority group places the blame on a minority outgroup for its own social, economic or political problems. (1)

- a) Self-fulfilling prophecy      b) Scapegoating      c) Stereotypes      d) Ingroup bias

Q10. Which phenomenon is a consequence of extreme cohesiveness in a group? (1)

- a) Groupthink      b) Ascribed Status      c) Achieved Status      d) Group Structure

### **SECTION-B**

**There are SIX (06) questions in this section. All questions are compulsory and carry 02 marks each.**

Q11. What is “repression”? (2)

Q12. Define “Stress”. (2)

Q13. What is “Anorexia Nervosa”? (2)

Q14. What do you mean by “Aversive Conditioning”? (2)

Q15. What is “existential anxiety”? (2)

Q16. What is “fundamental distribution error”? (2)

### **SECTION-C**

**There are SIX (06) questions in this section. All questions are compulsory and carry 03 marks each.**

Q17. Briefly explain “structure of intellect model”. (3)

Q18. What are the “levels of consciousness” given by Sigmund Freud? (3)

Q19. What do you mean by a Stress Resistant Personality? Give one example. (3)

OR

Give a brief description of socio-cultural model.

Q20. Briefly explain problem-focused and emotion-focused coping strategies. (3)

OR

Explain “diathesis – stress model”.

Q21. What are the ethics in Psychotherapy? (3)

OR

What do you mean by Ingroup and Outgroup?

Q22. What are the techniques used in the rehabilitation of the mentally ill? (3)

OR

What are the stages of Group Formation (Tuckman)?

**SECTION-D**

**There are FOUR (04) questions in this section. All questions are compulsory and carry 05 marks each.**

Q23. Explain “Attitude-Behaviour relationship” alongwith the study reported by Richard La Piere on Chinese Couple. (5)

OR

Give a detailed explanation of Obsessive-Compulsive Disorder (OCD) and Post-Traumatic Stress Disorder (PTSD).

Q24. Explain how the source and message characteristics bring about an attitude change. (5)

OR

What is anxiety? Explain Phobia and Separation Anxiety Disorder.

Q25. Explain “Psychosexual Stages of Personality Development”. (5)

OR

Give a detailed explanation of PASS model of intelligence.

Q26. How would Horney’s explanation of depression be different from that of Alfred Adler? (5)

OR

Explain “Intellectual Disability” and the different levels of retardation.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Sociology [12SO04]

Maximum Marks: 75

Duration: Three Hours

**Instructions to Examinees:**

1. All Questions are Compulsory. Internal Choices are given against the questions.
2. Questions 1-10 are MCQ's carrying 1 mark each.
3. Questions 11-18 carry 2 marks each. Answer to these questions should not exceed 30 words each.
4. Questions 19-26 carry 3 marks each. Answer to these questions should not exceed 50 words each.
5. Questions 27-30 carry 7 marks each. Answer to these questions should not exceed 150 words each.

**SECTION – A (1 x10 = 10)**

- Q1. Which of these states are less densely populated? (1)  
a) Meghalaya      b) Goa      c) Arunachal Pradesh      d) Sikkim
- Q2. Children produced per 1000 males – females is known as (1)  
a) Birth Rate      b) Life expectancy  
c) Population explosion      d) Population Structure
- Q3. How many features of caste system Dr. Ghurye has given? (1)  
a) Four      b) Five      c) Six      d) Seven
- Q4. Who marries in Monogamy? (1)  
a) One male and one female      b) One male and two females  
c) Two females and three males      d) One female and two males
- Q5. Who has the power in patriarchal family? (1)  
a) Mother      b) Children      c) Father      d) Mother and Father
- Q6. Who established Satya Shodak Samaj? (1)  
a) Jyotiba Phule      b) Dayanand Saraswati  
c) Paramhans      d) Raja Ram Mohan Roy
- Q7. Which type of country is India? (1)  
a) Secular      b) Religious      c) Religious democratic      d) Monarchic
- Q8. When people of lower castes start to imitate people of higher castes then this process is known as: (1)  
a) Westernization      b) Sanskritization      c) Secularization      d) Modernization
- Q9. What is the main occupation of rural people? (1)  
a) Agriculture      b) Jobs      c) Trading      d) industry
- Q10. Which movement starts to change evils of the society? (1)  
a) Socio-reform movement      b) Revolutionary movement  
c) Expressive movement      d) National movement

**SECTION – B (2 x 8 =16)**

- Q11. What is Birth rate? (2)  
Q12. What is meant by joint Family? (2)  
Q13. When was Hindu Marriage Act passed? (2)  
Q14. What is Backward Class? (2)  
Q15. When was right to Information Act passed? (2)  
Q16. What is Revolution? (2)  
Q17. What was the main objective of Swami Vivekanand? (2)  
Q18. Who is Zamindar? (2)

**SECTION – C (3 x 7 =21)**

- Q19. Give main features of National Population Policy 2000? (3)  
Q20. Explain the characteristics of caste? (3)  
Q21. What is Hierarchy? (3)  
Q22. Explain Sati Pratha. (3)

**OR**

What is Untouchability?

- Q23. What is Community Identity and how it is formed? (3)

**OR**

What is meant by Regionalism?

- Q24. What do you mean by Structural Change? (3)

**OR**

What do you mean by Cultural Change?

- Q25. What was Green revolution? What is its importance in India? (3)

**OR**

Highlight the advantages and disadvantages of Contract Farming.

**SECTION – D (7 x 4 =28)**

- Q26. Describe Malthus Theory of population growth. (7)

**OR**

Caste is a discriminatory system. Elaborate.

- Q27. What was the causes of Low status of women? (7)

**OR**

What are the main economic and social problems of Tribal societies?

- Q28. What was the impact of Globalization and liberalization on rural society? (7)

**OR**

What are the impacts of Industrialization on society?

- Q29. What is meant by Social Movement? Explain its different types. (7)

**OR**

Write short note on tribal movement.

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Directorate of School Education A.M.U. Aligarh  
Senior Secondary School Certificate Examination  
Annual Exam (2022-23)  
Model Question Paper  
Class XII  
Zoology [12ZY04]

Maximum Marks: 30

Duration: 90 min.

**Note:**

- i. All questions are compulsory.
- ii. Section "A" contains multiple choice questions (MCQs) of 1 mark each.
- iii. Section "B" contains very short answer type questions of 2 marks each with internal choice.
- iv. Section "C" contains short answer type questions of 3 marks each with internal choice.
- v. Section "D" contains long answer type questions of 5 marks each with internal choice.
- vi. Wherever necessary, the diagram should be drawn and labelled properly.
- vii. Marks allotted to each question are mentioned against it.

**Section – A**

- Q.1:** Fertilization of human beings occurs in: 01
- a) Ovaries
  - b) Uterus
  - c) Ampullary Isthmic Junction of oviduct
  - d) Cervix
- Q.2:** The wings of a bird and the wings of an insect are: 01
- a) Homologous structures and represent divergent evolution.
  - b) Analogous structures and represent convergent evolution.
  - c) Phylogenetic structures and represent divergent evolution.
  - d) Homologous structures and represent convergent evolution.
- Q.3:** Which one of the following is an autoimmune disease: 01
- a) AIDS
  - b) Haemophilia
  - c) Allergy
  - d) Rheumatoid arthritis
- Q.4:** The first restriction endonuclease to be discovered was: 01

- a) Hind II
- b) Eco RI
- c) Bam HI
- d) Pst I

**Q.5:** A hotspot of biodiversity in India is: 01

- a) Eastern Ghats
- b) Western Ghats
- c) Gangetic Plain
- d) Sundarbans

**Section – B**

**Q.6:** What are the specific symptoms of Typhoid? Name its causative agent? 02

**Q.7:** What are “Selectable markers”? What is their use in genetic engineering? 02

**OR**

Q.7' What essential features must be present in a cloning vector?

**Q.8:** Draw a graph showing Species – Area relationship. Also write the equation to represent this relationship. 02

**Section – C**

**Q.9:** Write the source and the effect on the human body of the following drugs: 03

- i. Morphine
- ii. Cocaine
- iii. Marijuana

**OR**

Q.9' Differentiate between the following and give example of each

- i. Innate and acquired immunity
- ii. Active and Passive immunity

**Q.10:** Define the following terms and give one example for each 03

- i. Commensalism
- ii. Parasitism
- iii. Mutualism

**OR**



Q.10' Differentiate between in-situ conservation and ex-situ conservation.

**Q.11:** Explain the causes, symptoms and inheritance pattern of any two Mendelian genetic disorders. 03

**Section – D**

**Q.12:** Describe the process of oogenesis giving the names and roles of hormones involved in it. 05

**OR**

Q.12' What is infertility? Explain various special techniques used in Assisted reproductive technologies (ART).

**Q.13:** Describe the mechanism of pattern of inheritance of ABO blood groups in humans. 05

**OR**

Q.13' Explain Hardy-Weinberg Principle in the context of organic evolution and discuss the factors which affect this Principle.

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