

Name _____ Cl. & Sec. _____ Roll No. _____

Note: All the answers should be done in the question paper itself.**MCQ paper will be collected after 30 min.****Part-I**

I Choose the most appropriate answer: (1x30=30)

- 1) Which of these is a parasite-----
a) mushroom b) venus flytrap c) dodder d) pitcher plant
- 2) The element plants need for making protein
a) nitrogen b) oxygen c) hydrogen d) carbon dioxide
- 3) The smallest particle of a mixture is—
a) atom b) molecule c) element d) none of these
- 4) Symbol of lead is-----
a) L b) Le c) Pb d) Ld
- 5) The formula of oxygen is-----
a) O b) O₂ c) O₃ d) Oy
- 6) Angora wool is obtained from
a) angora rabbit b) angora goat c) cashmere goat d) camel
- 7) Which of these is not a fibre
a) cotton b) nylon c) leather d) wool
- 8) Obtaining silk from the cocoons is called
a) shearing b) reeling c) spinning d) weaving
- 9) A bimetallic strip consists of
a) iron and brass b) iron and copper
c) copper and brass d) aluminium and brass
- 10) A kink is present in a _____
a) laboratory thermometer b) clinical thermometer
c) alcohol thermometer d) digital thermometer
- 11) Which of these is a poor conductor
a) gold b) mercury c) air d) iron
- 12) The silvered surface at the back of a room heater
a) absorbs heat b) reflects heat
c) is a good conductor d) none of these
- 13) Breaking down of huge rocks into soil is
a) weathering b) soil c) decaying d) gravel

- 14) Which of these has the smallest size particles
a) sand b) clay c) silt d) gravel
- 15) Water logging can be expected in soil which is rich in
a) sand b) silt c) clay d) rocks
- 16) The type of soil that absorbs more water
a) sandy soil b) clayey soil c) none of these d) loamy soil
- 17) The decaying remains of plants and animals are present in
a) A horizon b) B horizon c) C horizon d) bed rock
- 18) _____ are called farmer's friend
a) fungi b) bacteria c) earthworm d) ants
- 19) Which of the following instruments measure time accurately
a) sundial b) quartz watch c) pendulum clock d) mechanical watch
- 20) A weight tied to a string is
a) pendulum b) speed c) quartz d) time
- 21) Maharaja Jai Singh II made
a) clocks b) sundial c) pendulum d) sand clock
- 22) One decade is
a) 100 years b) 1000 years c) 10 years d) 365 days
- 23) Substances which expand more on heating are
a) solids b) liquids c) gases d) all of these
- 24) In a compound XO_2 , the valency of X is
a) 1 b) 2 c) 4 d) cannot be determined from the formula
- 25) Which of the following is not a pure substance
a) mixture b) elements c) compounds d) none of these
- 26) The process of photosynthesis produces
a) CO_2 b) N_2 c) O_2 d) trace gases
- 27) Silk and wool are made up of
a) carbohydrates b) fats c) proteins d) vitamins
- 28) Normal human body temperature in Celsius scale is
a) $37.8^{\circ}C$ b) $38.4^{\circ}C$ c) $98.4^{\circ}C$ d) $37^{\circ}C$
- 29) The unit of speed is
a) metre second b) metre/second c) metre / second² d) second / metre
- 30) The best soil for cultivation is
a) loamy b) sandy c) clayey d) silt

PART II- To be answered on separate answer sheets.

- I. Define : (1x7=7)
1. Saprophytes
 2. Valency
 3. Convection
 4. Speed
 5. Time period
 6. Temperature
 7. Chemical equation
- II. Write the formula (show the method) : (1x4=4)
1. Magnesium nitrate
 2. Calcium hydroxide
 3. Sodium oxide
 4. Aluminium sulphate
- III. Balance the equation: (1x5=5)
1. $Zn + HCl \rightarrow ZnCl_2 + H_2$
 2. $Na + H_2O \rightarrow NaOH + H_2$
 3. $Ba + O_2 \rightarrow BaO$
 4. $K_2O + H_2O \rightarrow KOH$
 5. $Mg + O_2 \rightarrow MgO$
- IV. Give short answers in 2-3 sentences : (1½ x 8=12)
1. How do plants get nitrogen to synthesize protein?
 2. What does a formula represent?
 3. What are stomata? Where are they found?
 4. How does wool fiber help in keeping our body warm?
 5. Electric cables should be left a little loose if laid in summer? Why?
 6. Why are standard units used in measurement?
 7. In places with hot climate, it is advised to paint the outer walls of houses white? Why?
 8. Give any 3 precautions used while using a lab thermometer
- V. Give two differences between : (2x6=12)
1. Autotrophs/heterotrophs
 2. Element/Compound
 3. Natural/Synthetic fiber
 4. Conduction/Radiation
 5. Uniform/non uniform motion
 6. Good/Bad conductors of heat
- VI. Answer in 4-5 sentences : (2x6=12)
1. Explain with an example- symbiosis
 2. What adverse effects are observed on the health of workers in the silk industry?
 3. Give any four effects of heat
 4. Explain when and how sea breeze are set up?
 5. Calculate the speed of a car which covers a distance of 250 km in 5 hrs
 6. Explain an experiment to show that starch is produced during photosynthesis
- VII.
1. Draw a neat labeled diagram of a clinical thermometer (3)
 2. Draw a neat labeled diagram of a thermos flask. Explain how conduction and radiation are stopped in it. (3+2)