

Tst 85

Tenkal District
Common Half Yearly Examination - December 2023



Standard 8

SCIENCE

Time: 2.30 Hrs.

Marks: 100

I. Choose the best answer:

12×1=12

- 1) SI unit of temperature is _____.
a) celsius b) fahrenheit c) kelvin d) ampere
- 2) If we apply force against the direction of motion of the body, then the body will
a) stop moving b) move with an increased speed
c) move with a decreased speed d) move in a different direction
- 3) If the focal length of a spherical mirror is 10 cm, what is the value of its radius of curvature?
a) 10 cm b) 5 cm c) 20 cm d) 15 cm
- 4) Heat is a form of _____.
a) electrical energy b) gravitational energy
c) thermal energy d) None of these
- 5) Fuse is _____.
a) a switch
b) a wire with low resistance
c) a wire with high resistance
d) a protective device for breaking an electric circuit
- 6) The liquid metal used in thermometer is _____.
a) copper b) mercury c) silver d) gold
- 7) Aerated water contains _____.
a) air b) oxygen c) carbondioxide d) nitrogen
- 8) Cathode rays are made up of _____.
a) neutral particles b) positively charged particles
c) negatively charged particles d) None of the above
- 9) We brush our teeth with toothpaste because it is _____ in nature.
a) basic b) acidic c) both a and b d) None of these
- 10) Penicillin is an antibiotic which is extracted from
a) algae b) fungi c) bryophytes d) pteridophytes
- 11) _____ cells are specialised cells that can be transformed into any kind of cells.
a) Nerve b) Stem c) Heart d) Bone
- 12) Cockroach moves with the help of its _____.
a) leg b) bone c) muscular foot d) whole body

II. Fill in the blanks:

5×1=5

- 13) Nature of the images formed by a convex mirror is _____.
- 14) The body which has lost electrons becomes _____.
- 15) _____ is a negatively charged particle. [Electron / Proton]
- 16) Turmeric is used as a _____.
- 17) Movement of organisms from place to place is called _____.

III. State True or False. If false correct the statement:

5×1=5

- 18) A body will sink if the weight of the body is greater than the buoyant force.
- 19) Convection is the process by which the thermal energy flows in solids.
- 20) A chemical reaction is a temporary reaction.
- 21) Light energy may come out due to chemical reaction.
- 22) Skull in humans consists of 22 bones.

Kindly send me your answer keys to us - padasalai.net@gmail.com

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5x1=5

IV. Match the following:

- 23) a) Conduction - Liquid
 b) Convection - Gas to liquid
 c) Radiation - Solid to gas
 d) Sublimation - Vacuum
 e) Condensation - Solid

V. Answer any TWELVE of the following:

12x2=24

[Q.No. 38 is compulsory]

- 24) How do you feel when you touch a nail immediately after it is hammered into a wooden plank? Why?
 25) Define focal length.
 26) What is electroplating?
 27) Can you store pickle in an aluminium utensil? Give reason.
 28) What is global warming?
 29) What is dry ice? What are its uses?
 30) Define - Specific heat capacity.
 31) What is an indicator?
 32) Why microorganisms are essential for agriculture?
 33) Write any two characters of dicotyledons.
 34) What is cell differentiation?
 35) Define - Prokaryotic cell.
 36) What is ligament?
 37) What is adolescence?
 38) Write the skeleton equation for the following word equation and then balance them.
 a) Carbon + Oxygen → Carbon dioxide
 b) Phosphorus + Chlorine → Phosphorus penta chloride

VI. Answer any SEVEN of the following:

7x4=28

- 39) State Pascal's law and mention its applications.
 40) Explain series and parallel circuit.
 41) What are the hazards of noise pollution?
 42) Name the elements with the following symbols.
 (a) Na (b) W (c) Ba (d) Al (e) U
 43) Write the properties of anode rays.
 44) Write any four physical properties of acids.
 45) Write any four characters of pteridophytes.
 46) Tabulate the differences between aerobic and anaerobic respiration.
 47) What are the functions of skeleton in human body?
 48) Explain the importance of cleanliness during the time of menstrual cycle in girls.

VII. Answer in detail:

3x7=21

- 49) a) List out the base quantities with their units.
 (OR)
 b) What are the properties of sound?
 50) a) Explain the environmental effects of chemical reactions.
 (OR)
 b) i) Define - Acid.
 ii) How will you prepare natural indicator from turmeric powder?
 51) a) How microorganisms are useful in the field of medicine?
 (OR)
 b) What are the physical changes that occur in boys and girls during adolescence?