

COMMON ANNUAL EXAMINATION - 2023

Standard - VIII

Reg.No.

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Time: 2.30 hrs.

SCIENCE

Marks: 100

I. Choose the correct answer:

10×1=10

- The distance from the pole to the focus is called _____.
a) Pole length b) focal length c) Principal axis d) None of the above
- Which of the following are the characteristics of vibrations?
a) Frequency b) Time period c) pitch d) Loudness
a) (i) and (ii) b) (ii) and (iii) c) (iii) and (iv) d) (i) and (iv)
- A compass is used for _____.
a) Plotting magnetic lines b) detection of magnetic field
c) Navigation d) All of these
- The property which allows the metals to be hammered into their sheets is called _____.
a) ductility b) malleability c) conductivity d) shining strength
- Carbon-di-oxide with water changes _____.
 a) blue litmus to red b) red litmus to blue
c) blue litmus to yellow d) doesn't react with litmus
- The chemical mixed with LPG that helps in the detection of its leakage is _____.
a) Methanol b) ethanol c) camphor d) mercaptan
- Cathode rays are made up of _____.
a) neutral particles b) Positively charges particles
 c) Negatively charged particles d) None of the above
- _____ is a prokaryotic micro-organisms.
a) Virus b) Algae c) fungi d) Bacteria
- Adolescence is the period of life between _____ years of age.
a) 10 to 16 b) 11 to 17 c) 11 to 19 d) 11 to 20
- The process of placing seeds in the soil is called as _____.
a) ploughing b) sowing c) crop production d) crop production

II. Fill in the blanks :

10×1=10

- The coldness or hotness of a substance is expressed as Temperature.
- A simple barometer was first constructed by Torricelli.
- Our Sun belongs to _____ galaxy. Milky way
- Iron objects undergo rusting when exposed to water and Oxygen.
- The density of water is maximum at 4°C.
- Turmeric is used as a Natural Indicator.
- Monocotyledon seed bears only one cotyledon.
- cell is the structural and functional units of living organisms.
- Weed is a plant growing in a place where it is not wanted.
- Mudhumalai Wildlife Sanctuary is located in Nilgiris district.

III. Say True or false : If "false" correct the answer:**10×1=10**

21. Amount of substance gives the number of particles present in a substance. *True*
22. A body will sink if the weight of the body is greater than the buoyant force. *True*
23. In parallel circuit, the current remains the same in all components. *False*
24. PSLV and GSLV are India's popular satellites. *True*
25. CFC is a pollutant. *True*
26. Sea water is suitable for irrigation as it contains dissolved salts. *False*
27. Acids are corrosive in nature. *True*
28. Cell wall of fungi is made of chitin. *True*
29. Aqueous humour plays an important role in maintaining the shape of the eye. *False*
30. Cardiac muscle is a voluntary muscle. *Involuntary muscle - False*

IV. Match the following:**10×1=10**

31. A] a) Gir National Park - Madhya Pradesh *e*
 b) Sundarbans National park - Uttarakhand *d*
 c) Indira Gandhi National Park - West Bengal *b*
 d) Corbett National park - Gujarat *a*
 e) Kanha National park - Tamilnadu *c*
- B] a) Convex mirror - Radio telescopes *b*
 b) Parabolic mirror - Rear view mirror *a*
 c) Snell's law - kaleidoscope *e*
 d) Dispersion of light - $\frac{\sin i}{\sin r} = \mu$ *c*
 e) Refractive index - Rainbow *d*

V. Answer in Brief (Any 15):**15×2=30**

32. a) How many base quantities are included in SI system? *(Ans) Seven*
 b) Give the name of the instrument used for the measurement of temperature
33. Define - Ampere.
34. Complete the analogy:
 Downward force : Weight : Upward force offered by liquid : *Buoyant force*
35. State the laws of reflection.
36. Choose the correct option:
Assertion : It is safer to stand under a tall tree during lightning .
Reason : It will make you the target for lightning.
- a) Both assertion and reason are true and reason is the correct explanation of assertion.
- b) Both assertion and reason are true and reason is not the correct explanation of assertion.
- c) Assertion is true but reason is false
- d) Assertion is false but reason is true.*

37. Give two differences between music and noise.
38. Define : Magnetic field (Ans) Space around Magnet where Magnetic force is experienced
39. What are celestial objects?
40. Name the metals that are used in jewellery.
41. On heating Calcium carbonate gives calcium oxide and oxygen. Is it an exothermic reaction or endothermic reaction? (Ans) Endothermic reaction
42. What is global warming? (Ans) Increase in temperature of atmosphere
43. Write the names of following compounds.
a) CO b) N₂O c) NO₂ d) PCl₅
44. Water is a Universal solvent. Give reason (Ans) Water dissolves many substances
45. Give two uses of acids.
46. Expand CNG. Write any one use of CNG.
47. Write the 4 types of bacteria based on its shape.
48. Define Thallus (Ans) Plant body of Algae is called Thallus
49. State the different types of tissues.
50. a) O is called as vital life. Oxygen
b) N is used as a fertilizer. Nitrogen
51. Write the names of any three protozoans.
(Ans) Amoeba (ii) Plasmodium (iii) Paramecium

6x5=30

VI. Answer in detail : [Any 6]

52. Write a short note on different types of clocks.
53. What is an electroscopes? explain how it works?
54. Name the compounds produced when the following substances burn in oxygen
a) Carbon b) Sulphur c) Phosphorous d) Magnesium e) Iron
55. Write a short note on bacteria and its structure.
56. Write the names of medicinal plants and explain their uses.
57. What is deforestation? Explain the causes and effects of deforestation.
58. List out the uses of magnets.

32(b) Thermometer

33. If one Coulomb of charge flowing through a conductor is one second, then the current flowing is one ampere

35) (i) Incident ray, reflected ray and normal at point of contact lie in same plane
(ii) Angle of incidence = Angle of reflection

- 37) Music
 (i) Pleasant
 (ii) Regular vibrations

Noise
 Not Pleasant
 Irregular vibrations

39) Stars, Planets, moon, Comets

40) Gold, Silver.

- 43) CO — Carbon monoxide
 N₂O — Nitrous oxide
 NO₂ — Nitrogen di oxide.
 PCl₅ — Phosphorous Pentachloride

45) (i) HCl Helps in digestion
 (ii) Sulphuric acid is used to make
 detergents, paints, Fertilizers

46) Compressed Natural gas is CNG
 It is used as fuel

47) Cocci, Bacillus, Vibrio, Spirillum
~~Parasit~~

Q 52) Drawing Analog clock, digital clock.
 Explain points

53) Drawing electroscope.
 Principle: Similar charges repel each other

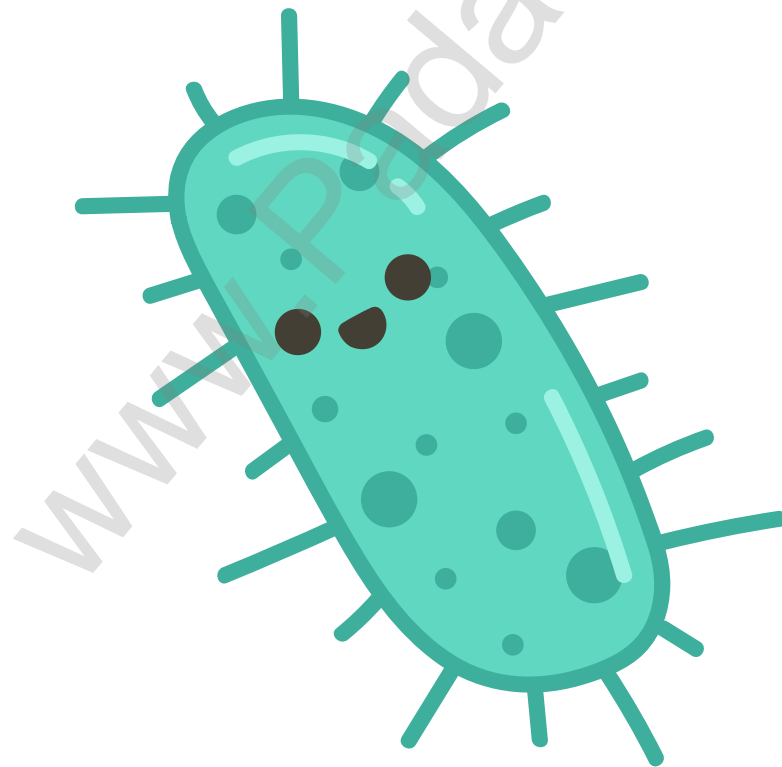
- 54) Carbon — CO₂ (iv) Magnesium — MgO
 (iii) Sulphur — SO₂ (v) Iron — Fe₂O₃
 (iii) Phosphorus — P₂O₅

55. Write short notes on bacteria and its structure?

i) Bacteria  cell is prokaryotic

ii) It has DNA

iii) They do not have nuclear membrane and other cell organelles



56. Medicinal plants and uses

1. Kuppaimeni...Cures ringworm

2. Vilvam...Cure diarrhoea & dysentery

3.Thooduvalai....Cures cough and cold

4.Keezhanelli...Cures Jaundice

5.Aloe Vera...Cures Peptic Ulcer

57.C.Re moval of forest is called deforestation

Causes of deforestation

i) Agricultural expansion

ii) Urbanization

iii) Mining

iv) Construction of dams

v) Forest fire

Effects of deforestation

i) Extinction of species

ii) Soil erosion

iii) Affect water cycle

iv) Causes flood

58 Uses of magnets

i) Magnets are used in dynamos

ii) Magnets are used in electric motors

iii) Magnets are used in loudspeakers and microphones

iv) Magnets are used in computers

v) Magnets are used to find direction