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STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 4

I. CHOOSE THE CORRECT ANSWER

30 X 1 = 30

- Which of the following have inert gases 2 electrons in the outermost shell _____
a) He b) Ne c) Ar d) Kr
- The number of components in a binary solution is _____
a) 2 b) 3 c) 4 d) 5
- Which of the following is the universal solvent?
a) Acetone b) Benzene c) Water d) Alcohol
- When pressure is increased at constant temperature the solubility of gases in liquid _____
a) No change b) increases c) decreases d) no reaction
- Plotting a graph for momentum on the X-axis and time on Y-axis. Slope of momentum-time graph gives
a) Impulsive force b) Acceleration c) Force d) Rate of force
- In which of the following sport the turning of effect of force used
a) swimming b) tennis c) cycling d) hockey
- The unit of 'g' is ms⁻². It can be also expressed as
a) cms⁻¹ b) Nkg⁻¹ c) N m²kg⁻¹ d) cm²s⁻²
- TFM in soaps represents _____ content in soap
(a) mineral (b) vitamin (c) fatty acid (d) carbohydrate
- The molecular formula of an open chain organic compound is C₃H₆. The class of the compound is
(a) alkane (b) alkene (c) alkyne (d) alcohol
- In myopic eye, the image of the object is formed
a) behind the retina b) on the retina c) in front of the retina d) on the blind spot
- The eye defect 'presbyopia' can be corrected by
a) convex lens b) concave lens c) convex mirror d) Bi focal lenses
- The IUPAC name of an organic compound is 3-Methyl butan-1-ol. What type of compound it is?
(a) Aldehyde (b) Carboxylic acid (c) Ketone (d) Alcohol
- The secondary suffix used in IUPAC nomenclature of an aldehyde is ____
(a) - ol (b) - oic acid (c) - al (d) - one
- If a substance is heated or cooled, the change in mass of that substance is
a) Positive b) negative c) zero d) none of the above
- SI unit of resistance is
a) mho b) joule c) ohm d) ohm meter
- Which is formed during anaerobic respiration
a) Carbohydrate b) Ethyl alcohol c) Acetyl CoA d) Pyruvate
- The body of leech has
a) 23 segments b) 33 segments c) 38 segments d) 30 segments
- Mammals are _____ animals.
a) Cold blooded b) Warm blooded c) Poikilothermic d) All the above

19. Which of the following process requires energy?
 a) active transport b) diffusion c) osmosis d) all of them
20. The outer most of the three cranial meninges is
 (a) arachnoid membrane (b) piamater (c) duramater (d) myelin sheath
21. LH is secreted by
 a) Adrenal gland b) Thyroid gland c) Anterior pituitary d) Hypothalamus.
22. A single highly coiled tube where sperms are stored, get concentrated and mature is known as
 a) Epididymis b) Vasa efferentia c) Vas deferens d) Seminiferous tubules
23. The _____ units form the backbone of the DNA.
 a) 5 carbon sugar b) Phosphate c) Nitrogenous bases d) Sugar phosphate
24. The best way of direct dating fossils of recent origin is by
 a. Radio-carbon method b. Uranium lead method c. Potassium-argon method d. Both (a) and (c)
25. Himgiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of _____.
 a. chilli b. maize c. sugarcane d. wheat
26. Cancer of the epithelial cells is called
 a) Leukemia b) Sarcoma c) Carcinoma d) Lipoma
27. An inexhaustible resources is
 a) wind power b) soil fertility c) wild life d) all of the above
28. Common energy source in village is
 a) electricity b) coal c) biogas d) wood and animal dung
29. Green house effect refers to
 a) cooling of earth b) trapping of UV rays c) cultivation of plants d) warming of earth
30. Oxygen is produced at what point during photosynthesis?
 a) when ATP is converted to ADP b) when CO_2 is fixed c) when H_2O is splitted d) All of these

II. ANSWER THE FOLLOWING (ANY 10)**10X2=20**

31. What is a longitudinal wave?
32. What is the audible range of frequency?
33. Name three animals, which can hear ultrasonic vibrations
34. Why does an empty vessel produce more sound than a filled one?
35. Define combination reaction. Give one example for an exothermic combination reaction
36. Differentiate reversible and irreversible reactions.
37. Why does the reaction rate of a reaction increase on raising the temperature?
38. Write the reaction for photosynthesis?
39. a. Draw and label the structure of oxysomes.
 b. Name the three basic tissues system in flowering plants.
40. What is respiratory quotient?
41. The degenerated wing of a kiwi is an acquired character. Why is it an acquired character?
42. Why is Archaeopteryx considered to be a connecting link?
43. Define Ethnobotany.
