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STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 5

I. CHOOSE THE CORRECT ANSWER

30 X 1= 30

- Kilowatt hour is the unit of
 - Resistivity
 - conductivity
 - electrical energy
 - electrical power
- When a sound wave travels through air, the air particles
 - vibrate along the direction of the wave motion
 - vibrate but not in any fixed direction
 - vibrate perpendicular to the direction of the wave motion
 - do not vibrate
- Velocity of sound in a gaseous medium is 330 m s^{-1} . If the pressure is increased by 4 times without causing a change in the temperature, the velocity of sound in the gas is
 - 330 ms^{-1}
 - 660 ms^{-1}
 - 156 ms^{-1}
 - 990 ms^{-1}
- The frequency, which is audible to the human ear is
 - 50 kHz
 - 20 kHz
 - 15000 kHz
 - 10000 kHz
- The velocity of sound in air at a particular temperature is 330 m s^{-1} . What will be its value when temperature is doubled and the pressure is halved?
 - 330 ms^{-1}
 - 165 ms^{-1}
 - $330 \times \sqrt{2} \text{ ms}^{-1}$
 - $320 / \sqrt{2} \text{ ms}^{-1}$
- If a sound wave travels with a frequency of $1.25 \times 10^4 \text{ Hz}$ at 344 m s^{-1} , the wavelength will be
 - 27.52 m
 - 275.2 m
 - 0.02752 m
 - 2.752 m
- Unit of radioactivity is _____
 - roentgen
 - curie
 - Becquerel
 - all the above
- Gamma radiations are dangerous because
 - it affects eyes & bones
 - it affects tissues
 - it produces genetic disorder
 - It produces enormous amount of heat
- Aprons are used to protect us from gamma radiations
 - Lead oxide
 - Iron
 - Lead
 - Aluminium
- Which of the following has the smallest mass?
 - 6.023×10^{23} atoms of He
 - 1 atom of He
 - 2 g of He
 - 1 mole atoms of He
- Which of the following is a triatomic molecule?
 - Glucose
 - Helium
 - Carbon dioxide
 - Hydrogen
- The volume occupied by 4.4 g of CO_2 at S.T.P
 - 22.4 litre
 - 2.24 litre
 - 0.24 litre
 - 0.1 litre
- _____ group contains the members of halogen family.
 - 17th
 - 15th
 - 18th
 - 16th
- _____ is a relative periodic property
 - atomic radii
 - ionic radii
 - electron affinity
 - electronegativity
- Chemical formula of frustis _____
 - $\text{FeO} \cdot x\text{H}_2\text{O}$
 - $\text{FeO}_4 \cdot x\text{H}_2\text{O}$
 - $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
 - FeO
- Kreb's cycle takes place in
 - chloroplast
 - mitochondrial matrix
 - stomata
 - inner mitochondrial membrane
- The brain of leech lies above the

- a) Mouth b) Buccal Cavity c) Pharynx d) Crop

18. Active transport involves

- a) movement of molecules from lower to higher concentration
b) expenditure of energy c) it is an uphill task d) all of the above

19. Water which is absorbed by roots is transported to aerial parts of the plant through

- a) cortex b) epidermis c) phloem d) xylem

20. There are pairs of cranial nerves and pairs of spinal nerves.

- (a) 12, 31 (b) 31, 12 (c) 12, 13 (d) 12, 21

21. To increase the sugar production in sugarcane they are sprayed with _____

- a) Auxin b) Cytokinin c) Gibberellins d) Ethylene

22. The large elongated cells that provide nutrition to developing sperms are

- a) Primary germ cells b) Sertoli cells c) Leydig cells d) Spermatogonia

23. The centromere is found at the centre of the _____ chromosome.

- a) Telocentric b) Metacentric c) Sub-metacentric d) Acrocentric

24. The term Ethnobotany was coined by

- a. Khorana b. J.W. Harsbberger c. Ronald Ross d. Hugo de Vries

25. Pusa Komal is a disease resistant variety of _____.

- a. sugarcane b. rice c. cow pea d. maize

26. Metastasis is associated with

- a) Malignant tumour b) Benign tumour c) Both (a) and (b) d) Crown gall tumour

27. A cheap, conventional, commercial and inexhaustible source of energy is

- a) hydropower b) solar energy c) wind energy d) thermal energy

28. In a hexaploid wheat ($2n = 6x = 42$) the haploid (n) and the basic (x) number of chromosomes are

- a. $n = 7$ and $x = 21$ b. $n = 21$ and $x = 21$ c. $n = 7$ and $x = 7$ d. $n = 21$ and $x = 7$

29. DNA fingerprinting is based on the principle of identifying ----- sequences of DNA

- a. single stranded b. mutated c. polymorphic d. repetitive

30. The brain of leech lies above the

- a) Mouth b) Buccal Cavity c) Pharynx d) Crop

II. ANSWER THE FOLLOWING QUESTIONS (ANY 10)

10X2=20

31. Define the unit of current.

32. What happens to the resistance, as the conductor is made thicker?

33. State Ohm's law

34. Define genetic engineering.

35. Name the types of stem cells.

36. What are transgenic organisms?

37. State the importance of biofertiliser.

38. Name two maize hybrids rich in amino acid lysine

39. Write the dental formula of rabbit.

40. How is diastema formed in rabbit?

41. Why is the teeth of rabbit called heterodont?

42. a) How does leech suck blood from the host?

b. How does leech respire?

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