

Padasalai.Net's Special – Centum Coaching Team Question

Class: **X STD** Subject: **SCIENCE** Marks: 75 Time: 2:30hrs.

SECTION – A (15 x 1 = 15)

Answer all the questions.

I. Choose and write the correct answer

1. The genetic make up of the green colour of the seed can be shown as _
i) GG ii) Gg iii) Yy iv) yy
2. State whether true or false; Malaria is a bacterial disease, whereas ring worm is a viral disease
3. The endocrine gland related to the immune system is _____.
i) Thyroid ii) Thymus iii) Adrenal iv) Pineal
4. Cross pollination is important for producing _____.
i) new varieties of plants ii) plants with better growth
iii) disease resistant plants iv) all of the above
5. Which blood cells of mammals are concerned with immunity?
i) Young Erythrocytes ii) Leucocytes
iii) Thrombocytes iv) Matured Erythrocytes
6. The special root-like structure of plant parasites in cuscuta and viscum are called i) Rhizoids ii) Haustoria iii) Hyphae iv) Stolons
7. Flying squirrel is in (Kalakkadu Wildlife Sanctuary, Gulf of Mannar Marine National Park, Bharathpur Bird Sanctuary, Bandhipur National Park)
8. ____ flame in Gas stove indicates that the burner needs cleaning (Green , Blue , Yellow , Red)
9. A polar compound is _____in a non polar solvent
10. Series arrangement of metals in increasing order of their reactivity

is called_____.

11. Group 16 elements are called ____ family
(Carbon ,Nitrogen ,Chalcogen ,Halogen)
12. The shape of FULLERENE is _____
13. The momentum of a massive object at rest is _____.
i) very large ii) very small iii) zero iv) infinity
14. The safe limit for receiving radiation is about _ milli roentgen /week.
15. Hubble telescope is a space telescope that was carried into orbit by a space shuttle in _____

SECTION – B (20 x 2 = 40)

II. Answer any twenty questions.

16. Define Evolution
17. Write about the Neanderthal man
18. Define Genetic engineering
19. Define Immunization
20. What are cervical plexus and lumbar plexus.?
21. Define Anemophily with example
22. What is called cross fostering ?
23. What is called courtship signalling?
24. What is called parental care?
25. What are called ammonotelic , uricotelic & ureotelic animals?
26. What is known as aerobic respiration?
27. What is called Alveoli ?
28. What is Global Village?
29. Wastewater can also be used as a fertilizer- why?
30. List out Basic rules for sanitation in public places

31. What is Energy Management ?
32. Name the factors affecting solubility.
33. Write about Exothermic process based on effect of temp. on solubility
34. State the law of Gay Lussac's Combining volume
35. Name the processes that are based on the red ox reaction.
36. Hydrogen ions exist only in the form of H_3O^+ in H_2O – why?
37. What happens when calcium oxide reacts with silica? Give eqn.
38. What is PIG IRON? Give one use
39. What is INTER MOLECULAR DEHYDRATION? Give eg
40. Why does a boxer always move along the direction of the punch of the opponent?
41. The mats used in gyms and the padding used in sports uniforms are made up of soft substances. Why are rigid materials not used?
42. Two resistances 18Ω and 6Ω are connected to a $6 V$ battery in series. Calculate (a) the total resistance of the circuit, (b) the current
43. The potential difference between the terminals of an electric heater is $60 V$ when it draws a current of $5 A$ from the source. What current will the heater draw if the potential difference is increased to $120 V$?
44. How much work is done in moving a charge of $5 C$ across two points having a potential difference $10 V$?
45. Which part of the human eye helps in changing the focal length of the eye lens?
46. Write down the names of the specified parts of the human eye.
 - i) Dark muscular diaphragm that controls the pupil.
 - ii) The screen where the image is formed by the eye lens.
47. Does magnetic monopole exist? Give reasons

SECTION – C (4 x 5 = 20)

- (i) Answer **any four** questions by choosing **one question**
- (ii) Each question carries **five marks**.
- (iii) Draw **diagram** wherever necessary.

PART – I

- 48. Explain any two Non-communicable diseases
- 49. Describe meiosis with various stages (diagrams) & its significance

PART – II

- 50. Describe about Autochory and Anemochory
- 51. Describe about Fresh Water Management

PART – III

- 52. How will you deduce the atomicity of elementary gases?
- 53. Give any FIVE CHEMICAL PROPERTIES OF ETHANOL

PART – IV

- 54. State Newton's law of gravitation. Write an expression for acceleration due to gravity on the surface of the earth.
If the ratio of acceleration due to gravity of two heavenly bodies is 1:4 and the ratio of their radii is 1:3, what will be the ratio of their masses?
- 55. There are mainly three common refractive defects of vision-Explain (any two)

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