

## **Padasalai.Net's Special – Centum Coaching Team Questions**

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. Among the following organisms point out the asexually reproducing organism. (Cockroach, Euglena, Earthworm and Bird)
2. Pick out the odd ones; Diphtheria, tuberculosis, pertusis, tetanus
3. The cells in which reduction division take place are \_\_\_\_\_ .  
i) germinal epithelial cells    ii) the sensory epithelial cells  
iii) cuboidal epithelial cells    iv) columnar epithelial cells
4. Name the parts of a dicot seed based on the given clue  
Fleshy structure storing food for the embryo
5. Pick out an animal which has a four-chambered stomach.  
i) Elephant    ii) Dolphin    iii) Deer    iv) Kangaroo
6. Pick out the odd one : The parts of the alimentary canal are  
i) pharynx    ii) mouth    iii) buccal cavity    iv) pancreas
7. Golden langur is in (Kalakkadu Wildlife Sanctuary, Bharathpur Bird Sanctuary, Bandhipur National Park, Manas Wildlife Sanctuary)
8. Find the odd one out: cholera, typhoid, scabies, dysentery
9. An empty evaporating dish weighs \_\_\_\_\_
10. Food stuffs, become stale, due to \_\_\_\_\_
11. Vietnamesees uses \_\_\_\_\_ for craft work( Cu, Au, Ag , Fe)

12. The BOILING POINT of ethanol is \_\_\_\_\_
13. If liquid hydrogen is for rocket, then \_\_\_\_\_ is for MRI.
14. One roentgen which produces \_\_\_\_\_ pairs of ion in 1 gram of air.
15. \_\_\_\_\_ is also known as farsightedness.

**SECTION – B (20 x 2 = 40)**

**II. Answer any twenty questions.**

16. What are the two kinds of stem cells- explain ?
17. What are Bio-sensor & its uses.
18. What are Bio-Chips & its uses
19. Write about RETRO VIRUS
20. Write any two functions of glucocorticoid
21. What is known as hypanthodium?
22. What are called krill ?
23. What are called inter-auricular septum?
24. What are called renal hilus & ureter?
25. What are called Parasites and hosts?
26. .What are the different ways of excretion in plants ?
- 27..Write about Artificial kidneys ?
28. What are the major components in an Ecosystem?
29. What are Fossil Fuels ?
30. Give some uses of Natural gas.
31. What are called Bio-fuels ?
32. Define : Non-Aqueous soln with eg.
33. Define : Unsaturated Soln.
34. Define gram atomic mass. Give an example

35. What is neutralization reaction? Give example.
36. What are the importance of PH in rain water?
37. Magnesium is more reactive than iron-why?
38. Define: Dental Amalgams? Give its uses
39. Unlike ethanol, intake of methanol cause DEATH-Why?
40. The important use of cryogenics is cryogenic fuels. What do you mean by Cryogenic Fuels
41. Why does a spanner have a long handle?
42. Write about ocean thermal energy?
43. Two bulbs of 40 W and 60 W are connected in series to an external potential difference. Which bulb will glow brighter? Why?
44. Correct the mistakes, if any, in the following statements.
  - i) A good source of energy would be one which would do a small amount of work per unit volume of mass.
  - ii) Any source of energy we use to do work is consumed and can be used again
45. The focal length of a concave lens is 2m. Calculate the power of the lens.
46. A concave lens has focal length of 15cm. At what distance should the object From the lens be placed so that it forms an image 10 cm from the lens?
47. An object is placed at a distance of 30cm from a concave lens of focal length 15cm. An erect and virtual image is formed at a distance of 10 cm from the lens. Calculate the magnification

**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 the Life cycle of Malarial Parasite – Plasmodium

49. Tabulate Hormones of Adenohypophysis with functions

**PART – II**

50. Draw the flow chart for Classification of Fruits

51. Explain the Environmental Effects in Petroleum Industry and Alternatives to Petroleum – based Vehicle Fuels

**PART – III**

52. List out the applications of Avogadro's law

53. When sodium salt of an organic compound (A) is heated with soda lime to form the product (B).

(a) Identify (A), (B)

(b) Name the process involved in the above reaction.

(c) Give one use of (A). (d) Mention the IUPAC name of the product (B)

(e) Write the corresponding equation.

**PART – IV**

54. Cryogenics like liquid nitrogen are further used especially for chilling and freezing applications – Explain

55. Explain how an electric motor works? (with diagram)

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