AGLASEM

UBSE QUESTION Papers

HALF YEARLY EXAM

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ABC/22-23

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Half Yearly Examination 2022-2023

Subject - Science (Theory)

Time : 3 Hrs. **Class - 10** **M.M. : 80**

Note: There are 30 questions in this question paper. All questions are compulsory.

1. Four options are given in each part of this question. Write the correct answer in your answer book :

(a) The pH of a solution is 10. This solution will be :
(i) Acidic (ii) Alkaline (iii) Neutral (iv) None of these

(b) The alveoli, in human being are a part of the system for :
(i) Nutrition (ii) Excretion (iii) Respiration (iv) Transportation

(c) The nature of a Convex lens is- :
(i) Divergent (ii) Convergent
(iii) Both Divergent and Convergent (iv) None

(d) The focal length of a spherical mirror is 20 cm. Its radius of curvature will be :
(i) 0.4 cm (ii) 10 cm (iii) 20 cm (iv) 40 cm

(e) The most reactive metal among the following is :
(i) Pb (ii) Fe (iii) Na (iv) Zn

(f) Which gas is flushed in chips bags :
(i) Oxygen (ii) Carbon dioxide (iii) Hydrogen (iv) Nitrogen

(g) The human eye forms the image of an object at its :
(i) Cornea (ii) Iris (iii) Retina (iv) Pupil

(h) The autotrophic mode of nutrition requires :
(i) Carbon dioxide and water (ii) Chlorophyll
(iii) Sun light (iv) All of the above

2. Write the unit of power of lens. 1

3. What is the common name of the compound $CaOCl_2$. 1

4. Name two allotropes of carbon. 1

5. $Zn_{(s)} + CuSO_{4(aq)} \rightarrow ZnSO_{4(aq)} + Cu_{(s)}$ 1
Which metal is being displaced in the given equation ?

6. Write name of any one plant hormone. 1

7. What is the normal blood pressure of a healthy person ? 1

8. Write the name and symbol of a metal that exists in liquid state at room temperature. 1

9. What do you understand by transpiration ? 1

10. What is thermal decomposition? Explain with the help of an example. 2

11. Write Snell's law of refraction. 2

12. What is the role of the acid in our stomach ? 2

13. What are biodegradable and non-biodegradable substances? Give examples. 2

14. What is neutralization reaction? Give an example. 2

15. What are the factors on which the resistance of a conductor depends? Explain. 2

16. Balance the following chemical equations : 3

(a) $NaOH + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$

(b) $Fe + H_2O \rightarrow Fe_3O_4 + H_2$

(c) $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + HCl$

17. why is damage to the ozone layer a cause of concern? How can this damage be limited ? 3

18. What is meant by spectrum of light? Which colour of spectrum deviates the most and which the least ? 3

19. What do you mean by Refractive Index? Light enters from air to glass having refractive index 1.50. What is the speed of light in the glass ? The speed of light in vacuum is 3×10^8 m/s. 3

OR

What is meant by Myopia ? Write the causes and correction of this defect?

20. What do you understand by nutrition? Explain the mode of nutrition in amoeba with the help of diagram. 3

21. How can you help in reducing the problem of waste disposal? Give any two methods. 3

22. Write the name of three components present in blood. Give one function of each of them. 3

23. A concave lens has focal length of 30 cm. At what distance should the object from the lens be placed so that it forms an image at 20 cm from the lens? Also find the magnification produced by the lens. 3

OR

(a) What is meant by power of accommodation of the eye.

(b) Why does the sun appear reddish in the early morning.

24. (a) **What happens when. (Write only chemical equation)** 2

(i) Zinc reacts with sodium hydroxide.

(ii) Chlorine gas is passed on dry slaked lime.

(b) Write the chemical name, molecular formula and two uses of baking soda. 2

25. **For the given circuit diagram, calculate :**

(a) The total resistance of the circuit.

(b) The total current flowing in the circuit.

26. (a) What do you understand by Regeneration and Budding? 2

(b) How is the process of pollination different from fertilization? Clarify. 2

27. **Draw a neat and clean diagram of human excretory system and label the following parts in it :** 4

(a) Kidney (b) Ureter (c) Urinary bladder (d) Urethra

OR

(a) Draw a labeled diagram of the structure of a bisexual flower. 2

(b) What are the differences between aerobic and anaerobic respiration? 2

28. (a) What is electric current ? Write S.I unit of electric current. 2

(b) Why does the sky appear dark instead of blue to an astronaut? 2

29. (a) Name two metals which are found in nature in the free state. 1

(b) **Define the following terms :** 3

(i) Mineral (ii) Ore (iii) Gangue

30. What do you mean by ecosystem? Describe its major components. 4

OR

What are trophic levels? Give an example of a food chain and state the different trophic levels in it.

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