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| Roll No. | |
| Name | |
| Class & Section | |

APEEJAY COMMON ANNUAL EXAMINATION, 2019-20

SCIENCE

Time Allowed : 3.00 Hrs.

Class – VII

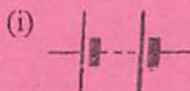
Maximum Marks : 80

General Instructions :

- ◆ *This question paper consists of 34 questions.*
- ◆ *Attempt all the questions in proper sequence.*
- ◆ *Marks of each question are indicated against it.*
- ◆ *Draw neat labeled diagram wherever required.*

SECTION-A

1. Which type of soil is used to make pots, toys and statues? (1)
2. Name a method of heat transfer which does not require a material medium. (1)
3. What is the normal range of breathing per minute in an average adult person at rest? (1)
4. Name the electrical components having the following symbols : (1)



5. What is the function of 'platelets' in the blood? (1)
6. Name the term used for the ground water that is stored between the layers of hard rocks below the water table. (1)
7. If the image formed by a mirror is always virtual, erect and smaller than the object, what is the nature of the mirror? (1)
8. Name the instrument used by doctors to check the heartbeat. (1)
9. What is meant by 'canopy' in a forest? (1)
10. Which part of flower forms the fruit? (1)

SECTION-B

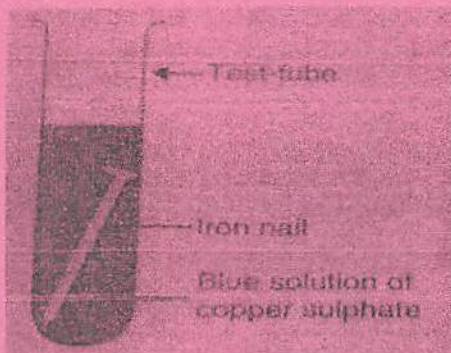
11. Give any one similarity and one difference between clinical and laboratory thermometer. (2)
12. Classify the following changes into physical and chemical change : (2)
- (a) Digestion of food
 - (b) Drying of clothes.
 - (c) Wool being knitted into a sweater.
 - (d) Burning of incense stick.
13. What is sludge? How it is treated? (2)
14. Soil is an inseparable part of our life. Justify. (2 points) (2)
15. What is anaerobic respiration? Give word equation to describe the breakdown of glucose in anaerobes. (2)
16. Differentiate between sexual and asexual reproduction in plants. (2)
17. What is meant by drip irrigation? What is its advantage? (2)
18. 300ml of water takes 50 minutes to percolate completely in a particular soil. Calculate the percolation rate of water in that soil. (2)
19. Which method of reproduction is used by a spirogyra? Explain with the help of diagram. (2)
20. How is the increasing number of industries responsible for depletion of water table? (2)

SECTION-C

21. What is sewage? Explain why it is harmful to discharge untreated sewage into rivers or seas. (3)
22. The names of some of the plants are given below :
Xanthium, Drumstick, Castor, Urena, Balsam, Maple
Which of these seeds/fruits are dispersed by
- (a) Wind
 - (b) Animals
 - (c) Bursting of fruits
- (3)
23. (a) Sam is standing at a distance of 1.5 m from a plane mirror. What is the distance between him and his image?

(b) If you are given two lenses: concave and convex lens, to read a dictionary, which lens would you use and why? (3)

24. Sameer took a solution of copper sulphate in a test tube and dipped a clean iron nail into it. He left the above solution undisturbed for about an hour.



(a) What changes do you expect in the above test tube ?

(b) Are the above changes physical or chemical in nature? Why?

(c) Write a word equation for the above change. (3)

25. Differentiate between the following :

(a) Xylem and phloem

(b) Artery and Pulmonary Artery

(c) Excretion and Transpiration (3)

26. Write any two properties each of sandy, clayey and loamy soil. (3)

27. What is the role of decomposers in the forest? Name any two decomposers. (3)

28. (a) What is meant by the heating effect of electric current? Name two appliances which work on the heating effect of electric current.

(b) Why MCB's are preferred over electric fuse? (3)

29. When Magnesium ribbon is burned in air, a powdery ash 'X' is formed. 'X' on dissolving in water forms 'Y'.

(a) What are 'X' and 'Y'?

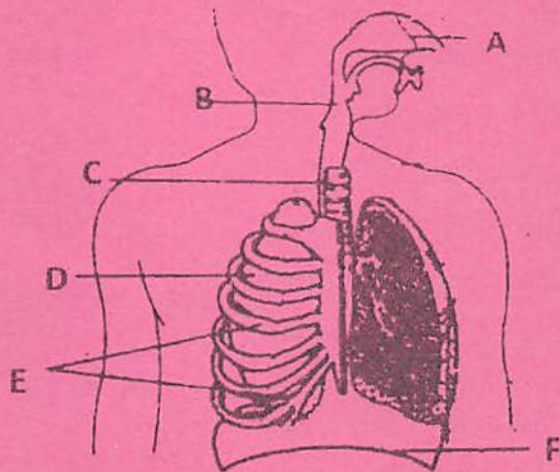
(b) What is the action of 'Y' on litmus paper?

(c) What conclusion do you get about the nature of 'Y' from its action on litmus paper? (3)

30. (a) What is meant by lateral inversion?
(b) State any four characteristics of image formed by a plane mirror. (3)

SECTION-D

31. Give reasons :
- (a) In places of hot climate, it is advised that the outer walls of houses be painted white. Why?
 - (b) Rooms are provided with ventilators and exhaust fan near the top of sidewalls.
 - (c) Clinical thermometer has a short temperature range from 35°C to 42°C .
 - (d) Box of solar cooker is painted black from inside.
 - (e) Cooking utensils are provided with wooden or Bakelite handles. (5)
32. (a) Why does an athlete breathe faster and deeper than usual after finishing the race?
(b) Observe the diagram carefully and label the parts marked as A, B, C, D, E and F. (5)



33. (a) Give two reasons for excessive current in an electric circuit.
(b) Explain the working of an electric bell with the help of a diagram. (5)
34. State any two functions of blood in our body Name the blood vessels that connect the arteries to veins. Draw schematic diagram of blood circulation in human body. (5)