Choose any one option from the given choices

1. Percolation rate is highest in
   (a) Clayey soil (b) Sandy soil
   (c) Loamy soil (d) All of these

2. Breathing organs in cockroach are
   (a) Lungs (b) Skin
   (c) Spiracles (d) Gills

3. Micro-organisms act upon the dead plants to produce
   (a) Sand (b) Mushrooms
   (c) Wood (d) Humus

4. An alga reproduces through
   (a) Binary fission (b) Spore formation
   (c) Fragmentation (d) Sexually

5. An electrical wire is covered with plastic to
   (a) Make it look nice (b) To make it thicker
   (c) To make it strong (d) To make it safe to touch

P.T.O.
6. If the two terminals of a cell are connected directly with a wire, then
   (a) The chemicals get used up very fast
   (b) The cell explodes
   (c) No current flows
   (d) More electrical energy is stored in the cell

7. The only source of clean water in cities today is
   (a) Rivers
   (b) Ponds
   (c) Seas
   (d) Ground water

8. The pistil of a flower consists of
   (a) Stigma and style
   (b) Anther and filament
   (c) Stigma and anther
   (d) Style and filament

9. White light is composed of
   (a) Seven colours
   (b) Five colours
   (c) Three colours
   (d) One colour

10. Pulmonary vein carries
    (a) Oxygenated blood
    (b) Deoxygenated blood
    (c) Both (a) and (b)
    (d) none of these
APEEJAY COMMON EXAMINATION, 2013
CLASS-VII
SCIENCE
SUMMATIVE ASSESSMENT II
TIME ALLOWED-2 HRS 45 MIN
MAXIMUM MARKS: 80

General Instructions:
1. All questions are compulsory. The question paper consists of 28 questions in 3 pages.
2. Attempt all the questions in proper sequence
3. Draw neat diagrams wherever required.

1. For a certain sample of soil, it took 50 seconds for 500 ml of water to percolate through it. Calculate the rate of percolation. (2)

2. An electrician working at your home wants to replace a damaged fuse with a piece of wire. Would you agree? Give reason. (2)

3. We often sneeze when we inhale a lot of dust laden air. Explain. (2)

4. Draw an electric circuit diagram using a cell, bulb and a closed switch. Also indicate the direction of current. (2)

5. Name any lens or mirror which can form:
   (a) An inverted real image plant mirror
   (b) An image which is erect, virtual and of same size as that of object
   (c) An erect and diminished image
   (d) An image which is erect, virtual and magnified. (2)

6. An athlete breathes faster and deeper than usual after finishing the race. Give reason. (2)

7. What is meant by cross pollination? Name any two agents of pollination. (2)

8. Define: (a) Infiltration (b) Aquifer (2)

P.T.O.
9. (a) Ali was not able to see a candle flame through a bent pipe. Identify the property of light that is responsible for it.

(b) If an object is placed at a distance of 10 cm in front of a plane mirror, how far would it be from its image? (2)

10. Explain how plants benefit by seed dispersal? (Give any 2 points) (2)

11. Distinguish between unisexual and bisexual flower with one example of each. (2)

12. Suggest any two ways by which we can prevent the loss of water at an individual level. (2)

13. Draw a labeled diagram of soil profile. Write any two characteristics of the layer which supports the growth of plants. (3)

14. Name a safety device in which heating effect of electric current is used. Explain how it prevents damages to electrical circuits and possible fire. (3)

15. A potter wants to make pots. Which soil should he use and why? Give two important properties of this soil (3)

16. How will you prepare a simple electro magnet. Explain it with the help of a diagram. Also give any one use of electromagnets. (3)

17. What are decomposers? Name any two of them. Explain their role in the forests. (3)

18. Explain how does the transportation of water and minerals take place in plants? (3)

19. Draw a neat labeled diagram of human excretory system. (3)

20. What is sewage? Explain why it is harmful to discharge untreated sewage into rivers and seas. (3)

21. Name the different cells present in blood and give one function of each. (3)

22. Mention any three better housekeeping practices by which we can minimize waste and pollutants at their source. (3)

23. What is sludge? How is it treated in a wastewater treatment plant? Give one advantage of this treatment. (3)

24. Explain briefly the reproduction in yeast. Support your answer with well labeled diagram. (3)

25. (a) Which mirror is used as rear view mirror in vehicles and why?

(b) How is the word ‘AMBULANCE’ written in front of an ambulance? State possible reasons.

(c) Give one point of difference between real and virtual image. (1+2+2=5)

(2)
26. (a) Describe the movement of rib cage and diaphragm during inhalation.
   (b) Why do we get muscle cramps after heavy physical exercise? Suggest one method to get relief with reason. (2+3=5)
27. (a) What is meant by drip irrigation. Mention its advantage.
   (b) Explain any three factors responsible for depletion of water table. (2+3=5)
28. (a) Animals dwelling in the forest help it grow and regenerate. Give any two points to support the statement.
   (b) Forests are called the 'green' lungs. Give reason. (2+3=5)