

APEEJAY SCHOOL COMMON ANNUAL EXAMINATION -2021-22

SUBJECT – SCIENCE, CLASS – VII

TIME – 2Hrs

M.M. – 50

General Instructions:

- 1. The question paper consists of 29 questions. Marks for each question are indicated against it and all questions are compulsory.**
 - 2. Question no. 1 to 15 carries 1 mark each.**
 - 3. Question no. 16 to 22 carries 2 marks each.**
 - 4. Question no. 23 to 29 carries 3 marks each.**
 - 5. Draw neat labelled diagrams, wherever required.**
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1. Which of these has the smallest size of particles?
 - a) Sand
 - b) Silt
 - c) Clay
 - d) Gravel(1)
2. The process of breakdown of rocks by the action of wind, water and sunlight is called
 - a) Percolation
 - b) Weathering
 - c) Horizon
 - d) Soil profile(1)
3. Which of these is responsible for blood clotting?
 - a) Red blood cells
 - b) White blood cells
 - c) Haemoglobin
 - d) Platelets(1)
4. Which of these is not true about cellular respiration?
 - a) It releases energy.
 - b) It occurs only during the day.
 - c) It utilizes oxygen and liberates carbon dioxide.
 - d) It occurs in all living things.(1)
5. The device used to hear the heartbeat is called a
 - a) Thermometer
 - b) Stethoscope
 - c) Speedometer
 - d) Microscope(1)

6. The male reproductive organ in plants is
- a) Pistil
 - b) Stamen
 - c) Pollen grain
 - d) Ovule
- (1)
7. The safety device based on the heating effect of electric current is called a
- a) Fuse
 - b) Solenoid
 - c) Battery
 - d) Circuit
- (1)
8. When an electric current flows through a copper wire in a closed circuit, the wire
- a) Becomes red hot
 - b) Deflects a magnetic needle placed near it
 - c) Gives electric shock
 - d) Behaves like a fuse
- (1)
9. A spherical mirror with its reflecting surface on the outside is a
- a) Plane mirror
 - b) Concave mirror
 - c) Convex mirror
 - d) Either concave or convex depending on which way you look at it.
- (1)
10. The branchy part of a tree above the stem is known as
- a) Crown
 - b) Canopy
 - c) Sapling
 - d) Humus
- (1)
11. Which of the following is not the name of a tree?
- a) Teak
 - b) Sal
 - c) Porcupine
 - d) Kachnar
- (1)
12. The solid matter produced during sewage treatment is
- a) Slurry
 - b) Fertilizer
 - c) Sludge
 - d) Humus
- (1)
13. Choose the method that does not result in conservation of water.
- a) Using drip irrigation
 - b) Recycling of water

c) Cutting vegetation so that less water is lost by transpiration

d) Planting more trees (1)

14. On which of the following day is World Water Day observed?

a) 22 March

b) 14 November

c) 23 January

d) 2 October (1)

15. The chemical used to disinfect water is

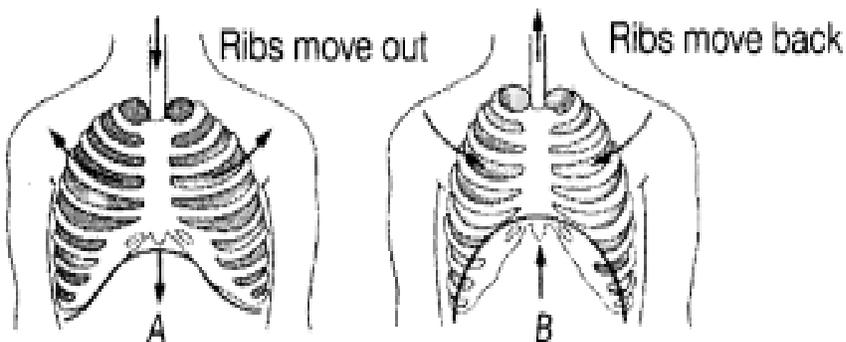
a) Chlorine

b) Washing soda

c) Silica

d) Coal (1)

16. Observe the given figures as A and B and answer the following questions (2)



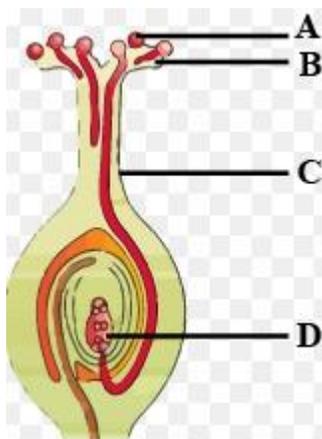
(a) Identify which figure indicates the process of inhalation and exhalation respectively.

(b) What is the direction of movement of diaphragm in case of exhalation?

17. Sohan places a concave mirror facing the sun and focuses the light on a paper. What is the nature of image obtained by him on the paper? What will happen if he holds the mirror in same position for few minutes? (2)

18. Write two reasons for depletion of water table in cities? (2)

19. Observe the diagram given below and label the parts A-D. (2)



20. Differentiate between an artery and a vein. (2)
21. What is the role of decomposers in the forest? Name any two decomposers. (2)
22. Why the forests are called the green lungs? (2)
23. Give reasons for: (3)
- (a) Untreated sewage should not be discharged in water bodies.
 - (b) Oil and fats should not be thrown in drains.
24. Radhika uprooted a rose plant from the soil, most of the root tips with the root hair got left behind in the soil. She planted it in a pot with new soil and watered it regularly. Will the plant grow or die? Give reason for your answer. (3)
25. Differentiate between Sandy, Clayey and Loamy soil. (3)
26. (a) The drivers use a convex mirror as a rear-view mirror while driving. Explain. (3)
- b) Mona has a concave and convex lens which one she will use to read the small prints in a dictionary. Why?
27. 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)
28. Roma won a relay race. However, she felt a cramp after the race. Her mother massaged her legs and asked her to dip her feet in warm water.
- a) What caused the pain in her legs after the race?
 - b) Why did her mother advise her to dip her feet in warm water? (3)
29. Draw a neat and well labelled diagram of the human excretory system. (3)