

**Atomic Energy Education Society  
Annual Examination-2018-19**

**Class: VII**

**Time: 3 HOURS**

**Subject: SCIENCE**

**Marks: 80**

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To be filled in by the student

Student's Name: \_\_\_\_\_

Name of the School: \_\_\_\_\_

Class/Sec: \_\_\_\_\_ Roll No: \_\_\_\_\_

Date of Examination: \_\_\_\_\_

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**General Instructions:**

1. This paper consists of five sections A, B,C , D and E
2. **Section-A** has 10 multiple choice questions and each question carries 1 mark.
3. **Section-B** has 10 fill in the blank questions and each question carries 1 mark.
4. **Section-C** has 8 questions and each question carries 2 marks.
5. **Section-D** has 8 questions and each question carries 3 marks
6. **Section-E** has 4 questions and each question carries 5 marks.
7. Draw a neat labeled diagram wherever necessary.
8. All the questions are compulsory.



9. Which of the following is responsible for clotting of blood in human beings?  
a) red blood cells      b) white blood cells      c) heart      d) blood platelets
10. The muscular sheet which forms the floor of the chest cavity in human beings is called:  
a) alveoli      b) lungs      c) diaphragm      d) ribs

**SECTION B**

**(1X10=10)**

**Fill in the blanks:**

11. \_\_\_\_\_ is used by doctors to amplify the sound of heart.
12. \_\_\_\_\_ is a cell formed after fusion of gametes.
13. The device used to measure the distance travelled by a vehicle is known as \_\_\_\_\_.
14. The point of intersection of X and Y axis in a graph is known as \_\_\_\_\_.
15. The coil of wire used in heating devices is called \_\_\_\_\_.
16. The lens which feels thicker in the middle than at the edges is a \_\_\_\_\_ lens.
17. When rain water is used to recharge ground water it is known as \_\_\_\_\_.
18. \_\_\_\_\_ carry oxygen-rich blood from the heart to all parts of the body.
19. The forest officers recognize the presence of some animals in the forest by their \_\_\_\_\_ and \_\_\_\_\_.
20. Water can be disinfected using chemicals like \_\_\_\_\_ and \_\_\_\_\_.

**SECTION-C**

**(2x8 =16)**

**Answer the following in one or two sentences**

21. Write the percentage of Oxygen and Carbon dioxide in inhaled and exhaled air.
22. Name the blood vessels that contain valves. Why are these valves present?
23. Write two advantages of vegetative propagation.
24. Why is an electric fuse required in an electric circuit? Which property of conducting wire is used in making a fuse?

25. Draw a distance time graph for the motion in the following cases.
- a) a car moving with a constant speed.
  - b) a car parked on a road side.
26. What type of mirror is used as a rear view mirror in an automobile? Why is this type of mirror chosen?
27. What is drip irrigation?
28. Give two examples of onsite low cost sewage disposal system.

**SECTION-D**

**(3X8=24)**

**Answer the following in 3 to 4 sentences**

29. Rohan walks to his school which is at a distance of 3 Km from his house in 30 minutes. On reaching school he finds that school is closed and comes back by a bicycle with his friend and reaches home in 20 minutes. What is his average speed in Km/h?
30. a) Give any two reasons for excessive currents in the electrical circuits.
- b) Give two uses of electromagnet.
31. Describe the structure of a simple pendulum with the help of a neat labeled diagram.
32. Explain any three factors responsible for depletion of water table.
33. a) How do forests prevent floods?
- b) Name any two decomposers in the forest.
34. Write any three consequences of deforestation.
35. a) Why do we get muscle cramps during a heavy physical exercise?
- b) What are the respiratory organs of:
    - i) fish
    - ii) earthworm
36. Write three differences between aerobic and anaerobic respiration.

**SECTION-E**

**(5X4=20)**

**Answer the following in 4 to 5 sentences**

37.a) Draw a neat labeled diagram of human excretory system.

b) What is the significance of transpiration? (2 points)

38. a) Describe an activity to make Newton's disc.

b) Bojhoo made light from laser torch (red light) to fall on a prism. Will he be able to obtain a band of seven colours? Explain with a reason.

39. a) How are following seeds dispersed? Also give one example of type of seeds mentioned below

i) seeds with wings

ii) seeds with spines/hooks

b) What is pollination? Explain its two types.

40. One day Sachin had gone to his uncle's house who lives in a village. In the village he saw a large number of people defecate in an open area because proper toilets are not there. He wondered about ground water contamination as he studied in his class that this act may cause waterborne diseases. He convinced village people to make toilets to avoid an outbreak of diseases.

a) i) Name two waterborne diseases.

ii) Write one value shown by Sachin.

b) Why used tea leaves, solid food remains, cotton sanitary towels etc should not be thrown down the drain?

c) Write one use of biogas.