

DAV PUBLIC SCHOOLS , BHUBANESWAR
SUMMATIVE ASSESMENT-I, CLASS-VII
SUB:-GENERAL SCIENCE , 2016-17

Time -2½ hrs

Full Marks - 90

General instructions:-

1. All questions are compulsory.
2. Marks are indicated on the right hand side of the main questions.
3. Draw labelled diagrams wherever necessary.
4. Question serial A consists of six questions (MCQ) carrying 1 mark each , B consists of nine questions carrying 1 mark each, C consists of nine questions carrying 2 marks each , D consists of nine questions consisting of 3 marks each, E consists of six questions carrying 5 marks each.
5. Read instructions carefully before answering the questions.
6. You can attempt any question first but the bits of that question must be answered serially and it should be properly numbered.

A. Choose the most appropriate option:

1×6=6

1. The food factory of the plant is :
(a) root (b) stem (c) flower (d) leaf
2. Which of the following is not a part of alimentary canal:
(a) stomach (b) anus (c) liver (d) large intestine
3. The chemical formula of quicklime is
(a) CaO (b) CaCO₃
(c) Ca(OH)₂ (d) CaCl₂
4. When we hold our hands close to the side of a flame , they get heated up mainly due to –
(a) conduction as well as convection (b) conduction
(c) radiation (d) convection
5. Insects have a network of branched tubes for respiration called-
(a) tracheae (b) gills (c) lungs (d) nostrils
6. On the earth , the % of water that is fresh and readily available is nearly :-
(a) 99.7% (b) 95% (c) 75% (d) 0.3%

B. Answer the following

1×9=9

7. What is holozoic nutrition?
8. Give one example of combination reaction.
9. In which direction does the transfer of heat normally takes place?
10. Define water table.
11. Give the meaning of the term 'earthing'
12. What do you understand by 'pulse rate'?
13. Give one reason for overloading in an electric circuit .
14. What is MCB?
15. What do you mean by waste water?

C. Answer the following in brief.

2×9=18

16. Why would life not be possible on the earth in the absence of photosynthesis?
17. How do rhizobium bacteria and leguminous plants help each other in their survival?
18. State any two measures to save water at home .

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19 Balance the equation: $\text{H}_2\text{O} \longrightarrow \text{H}_2 + \text{O}_2$



20. Discuss briefly any two methods by which a given object can be charged.
21. State any two applications of electromagnet.
22. List down any two precautions that a person can take if he is caught outside in the open during a lightning strike.
23. Explain any two functions of blood.
24. How is transpiration beneficial to plants?

D. Answer the following

3x9=27

25. Explain ingestion of food in amoeba (through diagram).
26. Neutralization Reaction is a chemical change. Justify the statement with the help of an example. (Write down the chemical reaction).
27. Why is Mushroom a saprotroph ?
28. Differentiate between clinical thermometer and laboratory thermometer (3 points).
29. Why do we get muscle cramps after heavy exercise?
30. State any 3 causes that will lead to a decrease in ground water level.
31. Describe a simple activity to show that the total charge on a pair of object that have been rubbed together is zero.
32. The same amount of current flows through the connecting wires and the bulb filament. However it is only the filament that glows. Why?
33. Name different types blood vessels and state their function.

E. Answer the following

5x6=30

34. a) Draw a neat diagram of human digestive system
 - i). Label the organ which - secretes HCl
- absorb the simpler food particles
- b) Write the function of any two associated glands in it.
35. a) Explain briefly the formation of sea breeze and land breeze near the coastal region .
- b) Why we have equitable climate on places near the sea?
36. Asima's grandfather always complains that his new quilt is unable to resist cold in chilled night. She advised her grandfather to cover himself with two thin quilts instead of one. Now her grandfather was happy and blessed her.
 - a) Why do you think using of two thin blankets made grandfather happy?
 - b) What nature of Asima can be revealed by her act?
37. a) Describe briefly the mechanism of breathing in human beings.
- b) Name the respiratory organ in ---i) Leech ii) Crab
38. a) What is decomposition reaction?
- b) Give one of its example (The chemical reaction with the help of chemical formula)
- c) Fill in the blank:-
 $\text{Mg}(\text{OH})_2 (\text{aq}) + 2\text{H}_2\text{SO}_4(\text{aq}) \longrightarrow \underline{\hspace{2cm}} + 2\text{H}_2\text{O}(\text{l})$
39. Draw a labeled diagram of an electric bell and explain its working.