



# SCIENCE

School Level Examination

GRADE

7

**DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO**

- \* All questions are compulsory.
- \* Read the instructions on the **ANSWER SHEET** and fill in your **NAME, CLASS and OTHER INFORMATION.**

To mark your choice of answer by darkening the circles in the Answer Sheet, use an **HB Pencil** only.

- \* You **MUST** record your answers on the **ANSWER SHEET.**
- \* There are 40 **MULTIPLE CHOICE QUESTIONS.** Use the information provided to choose the **BEST** answer among the four possible options.

On your **ANSWER SHEET** fill in the oval that matches your answer.

- \* Marks are **NOT** deducted for incorrect answers.
- \* Return the **Answer Sheet** to the invigilator at the end of the examination.
- \* Write your Roll No. on the Question Paper too and take it home for future reference.
- \* You are **NOT** allowed to use a calculator.

You may use a ruler and spare paper for rough work.

## Section - A

(This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

1. 'Parul' is the daughter of 'Suruchi', 'Nikita' is the sister of 'Parul', 'Suruchi' is the daughter of 'Anita'. How is 'Nikita' related to 'Anita'?

(A) Granddaughter (B) Grandmother  
(C) Daughter (D) Aunt

2. Find the correct missing number.

5	15	89
3	5	67
8	20	?

(A) 156 (B) 246  
(C) 186 (D) 145

3. Fill in the blank with correct option.

3, -9, 27, -81, ?

(A) 162 (B) -162  
(C) 243 (D) -244

4. 'Dress' is related to 'Body' in the same way 'Watch' is related to '\_\_\_\_\_.'

(A) Wrist (B) Human  
(C) Beauty (D) Plastic

5. If SYSTEM is written as SYSMET and NEARER is written as AENRER, then FRACTION will be written as \_\_\_\_\_.

(A) CARFNOIT (B) NOITFRAC  
(C) CARFTION (D) FRACNOIT

6. If  $12 \times 13 \times 14 = 345$ ,  $16 \times 15 \times 17 = 768$ , then  $22 \times 23 \times 24 = ?$

(A) 456 (B) 789  
(C) 123 (D) 678

7. If 'P' means '×', 'Q' means '÷', 'R' means '-' and 'S' means '+', then what will be the value of 15 S 18 Q 3 R 12 Q 4 P 3?

(A) 11 (B) 25  
(C) 12 (D) 28

8. Complete the pattern.



### Section - B

(This section contains 25 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

9. \_\_\_\_\_ plant has only heterotrophic mode of nutrition.

- |              |                 |
|--------------|-----------------|
| (A) Mushroom | (B) Bread mould |
| (C) Cuscuta  | (D) Aloe Vera   |

10. Fill in the blanks with correct options.

Plants release \_\_\_\_\_ and take \_\_\_\_\_ during photosynthesis.



- |                            |                      |
|----------------------------|----------------------|
| (A) Oxygen, Carbon Dioxide | (B) Oxygen, Nitrogen |
| (C) Carbon Dioxide, Oxygen | (D) None of these    |

11. Identify the fibre having following properties.

- |                              |                                       |
|------------------------------|---------------------------------------|
| • It creases easily.         | • It absorbs water quickly.           |
| • It is obtained from plant. | • It can be washed and ironed easily. |

• It is very porous.

- (A) Wool (B) Rayon  
(C) Cotton (D) Silk

12. Which of the following mirrors is formed by the outer surface of the spoon?

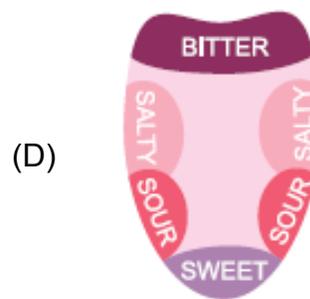
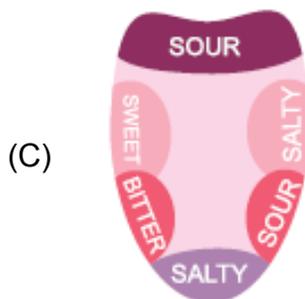
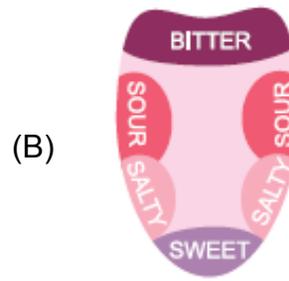
- (A) Convex Mirror (B) Concave Mirror  
(C) Plane mirror (D) None of these

13. While performing an experiment, Pooja added a pinch of baking soda in vinegar and heard a pop sound from the flask. Which gas was that?



- (A) CO<sub>2</sub> (B) H<sub>2</sub>O  
(C) Both of these (D) None of these

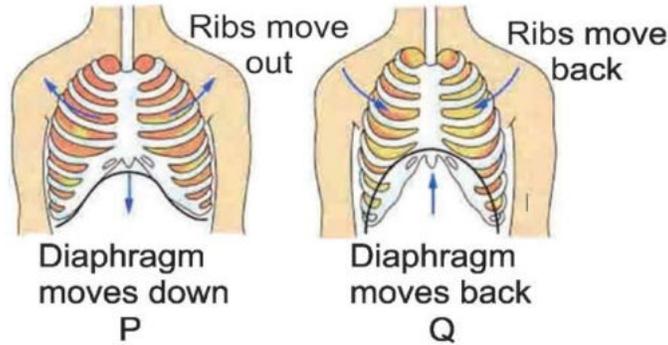
14. Which of the following diagrams of tongue is correctly labelled?



15. The process by which by which an organism grows from a seed or a spore is known as \_\_\_\_\_.

- (A) Pollination
- (B) Germination
- (C) Seed formation
- (D) Fertilization

16. Which of the following diagram represents inhalation?

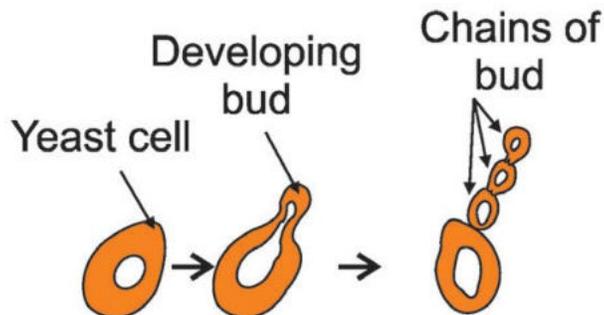


- (A) P
- (B) Q
- (C) Both P and Q
- (D) None of these

17. Why do Mountaineers carry an oxygen cylinder with them?

- (A) Pressure above is higher than that on the ground.
- (B) The amount of air available to a person is less than that available on the ground.
- (C) Temperature above is higher than that on the ground.
- (D) All of the given statements

18. Identify the method of reproduction in the given diagram.

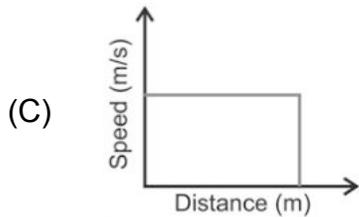
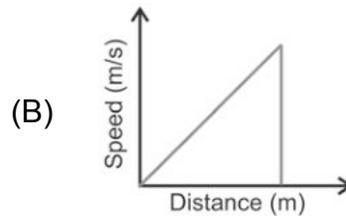


- (A) Flowering
- (B) Budding
- (C) Fragmentation
- (D) Sexual Reproduction

19. Determine the type of climate present in Rajasthan.

- (A) Hot and Wet
- (B) Hot and Dry
- (C) Cold
- (D) Cold and Dry

20. Which of the following represents the speed-time graph of a body performing uniform motion that comes to rest suddenly?



(D) All the above are correct

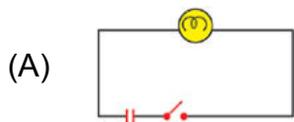
21. Which of the given statement is correct?

- (A) The wind flows from land to ocean in winter.
- (B) The coastline of India is vulnerable to cyclones.
- (C) Both the statements are correct
- (D) None of them are correct

22. Which of the following is representing correct flow of blood in body?

- (A) Right atrium → Right ventricle → Lungs → Left atrium → Left ventricle → body
- (B) Right ventricle → Right atrium → Left atrium → Lungs → Left ventricle → body
- (C) Right ventricle → Left atrium → Right atrium → Lungs → Left ventricle → body
- (D) None of these

23. Choose the option that represents the correct open electric circuit diagram.



- (C) Both (A) and (B)
- (D) None of these

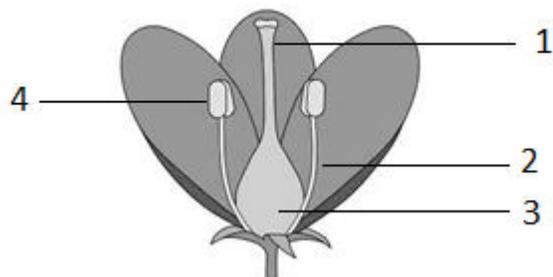
24. Huddling of penguins helps them to \_\_\_\_\_.

- (A) Run freely
- (B) Walk easily
- (C) Keep warm
- (D) Get food

25. Which of the following is an example of concave mirror?

- (A) Hallway safety mirrors in buildings
- (B) Reflectors of torches
- (C) As side view mirrors in vehicles
- (D) None of these

26. Which number represents the style, a female reproductive part of the flower in the given diagram?



- (A) 1  
(B) 3  
(C) 2  
(D) 4

27. Match the following.

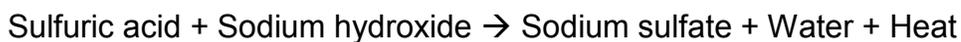
Column I	Column II
(i) Glaciers are the source of fresh water.	(P) True
(ii) Sun does not play any role in water cycle.	(Q) False
(iii) Most of the water present on Earth is unfit for drinking purpose.	

- (A) (i)–(P), (ii)–(P), (iii)–(P)  
(B) (i)–(P), (ii)–(P), (iii)–(Q)  
(C) (i)–(P), (ii)–(Q), (iii)–(P)  
(D) (i)–(Q), (ii)–(Q), (iii)–(Q)

28. Forest is a 'dynamic living entity' which implies that the forest is \_\_\_\_\_.

- (A) Full of life  
(B) Full of vitality  
(C) Both (A) and (B)  
(D) None of these

29. Ms Sakshi Mathur, the science teacher, asked Nitin to write a neutralisation reaction. He wrote:



What do you think of this reaction?

- (A) Correct  
(B) Partly correct  
(C) Partly incorrect  
(D) Do not know

30. Aditya took a bottle of 200 ml and filled it with water. He poured the water in a flower pot. It took 10 minutes for water to percolate in it. What is the percolation rate of the soil?

- (A) 0.03 mL/sec  
(B) 0.33 mL/sec  
(C) 0.20 mL/sec  
(D) 2.0 mL/sec

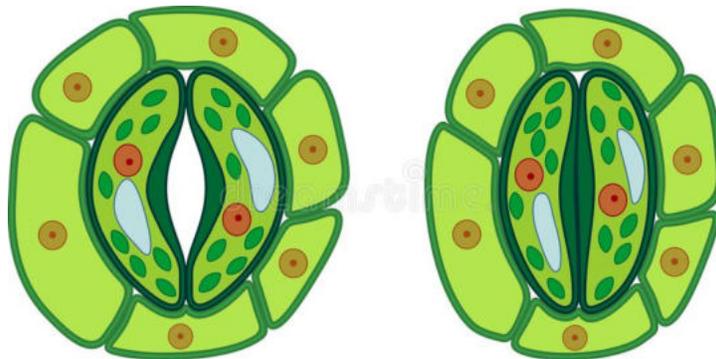
31. The teacher showed the student a red litmus paper which turned into blue when it was dipped in ammonia solution in the classroom. What is the nature of the ammonia solution?
- (A) Acidic (B) Basic  
(C) Neutral (D) Either acidic or basic
32. What is the use of bar screen in WWTP?
- (A) Removing dirt (B) Removing large objects  
(C) Removing small objects (D) Removing dust
33. Analyse the following reaction and choose the correct option.
- Copper sulphate solution + Iron  $\rightarrow$  Iron sulphate solution + Copper deposit  
(Blue colour) (Green) (Brown)
- (A) Chemical change  
(B) Physical change  
(C) Both physical and chemical changes  
(D) No changes

### Section - C

**(This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which TWO are correct.)**

34. How woollen clothes keep us warm in the winter?
- (A) Wool is made of heat resistant material.  
(B) Wool is a poor conductor of heat.  
(C) The trapped flow of air between woollen fibres prevents heat from our body to go to cooler surroundings.  
(D) All of these
35. Which of the following statements explains the similarities between clinical and laboratory thermometer?
- (A) Bulbs of both consist of mercury.  
(B) Both are made up of glass.  
(C) Both are used to measure body temperature.  
(D) All of the above
36. Which of the following uses specially the heating effect of electricity?

- (A) Refrigerator (B) Hair Dyer  
 (C) Electrical iron (D) Microwave oven
37. Which of the following are the sources of ascorbic acid?  
 (A) Vinegar (B) Orange  
 (C) Starch (D) Amla
38. Find the INCORRECT statements.  
 (A) When air gets cooled, it expands.  
 (B) When air gets heated, it expands.  
 (C) Warm air is heavier than cold air.  
 (D) Air moves from high pressure region to low pressure region.
39. The chemical equation for the process of rusting is  
 Iron (Fe) + Oxygen (O<sub>2</sub>) + M → N  
 What should come in place of M and N to complete the reaction?  
 (A) Carbon monoxide (B) Hydrochloric Acid  
 (C) Water (or water vapour) (D) Iron oxide, Fe<sub>2</sub>O<sub>3</sub>
40. Which of the following are the functions of the stomata?



- (A) Evaporation of water through leaves.  
 (B) Lowers temperature of the plants.  
 (C) Causes loss of water from plants.  
 (D) Exchange of gases.

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