



# SCIENCE

School Level Examination

GRADE

8

**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.

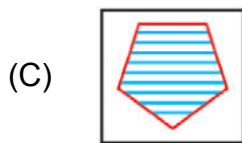
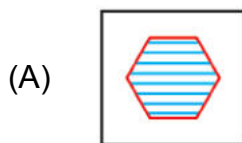
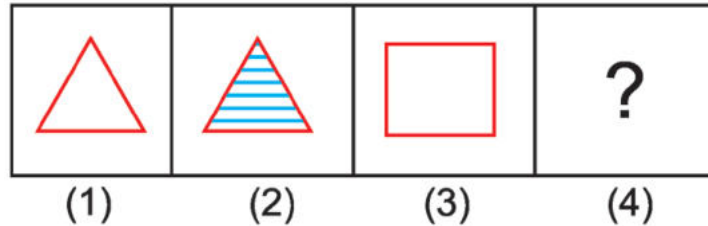
- \* Marks are **NOT** deducted for incorrect answers.
- \* Return the **Answer Sheet** to the invigilator at the end of the examination.
- \* Write your Roll No. on the Question Paper too and take it home for future reference.
- \* You are **NOT** allowed to use a calculator.

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. Select option that will fit in the place of (?).



2.  $AD : BE :: \underline{\quad ? \quad} : DG$

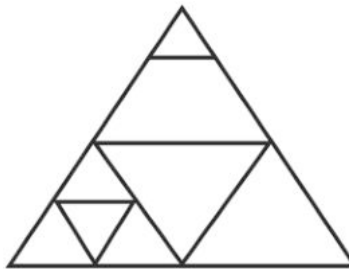
(A) CL

(B) HI

(C) JK

(D) CF

3. Count the number of triangles in the given figure.



(A) 12

(B) 10

(C) 8

(D) 9

4. Choose the ODD one out.

(A) 12 - 108

(B) 10 - 90

(C) 8 - 72

(D) 6 - 49

5. Find the missing number.

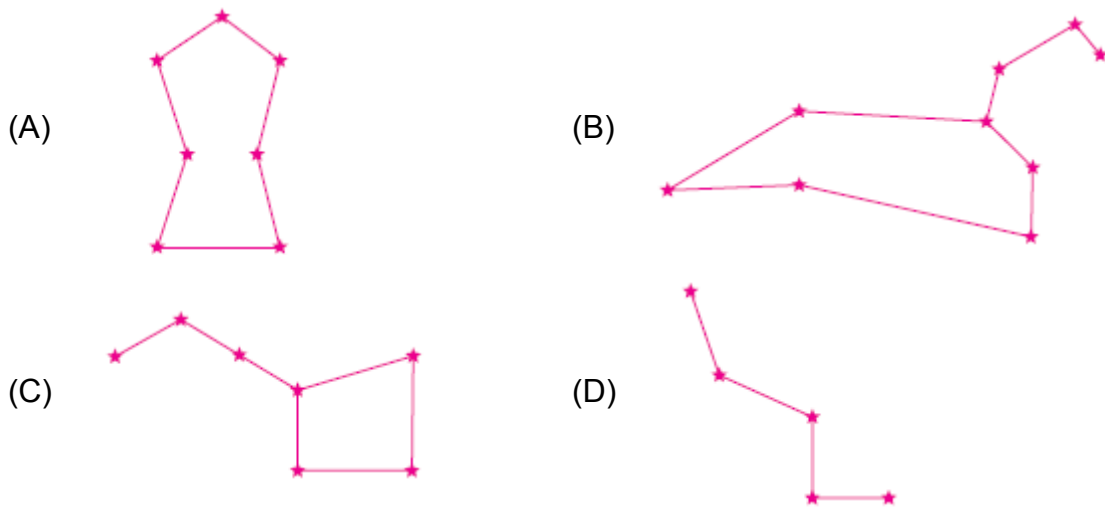


- (A) 44 (B) 10  
 (C) 42 (D) 29
6. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
- (A) 4 years (B) 10 years  
 (C) 11 years (D) 9 years
7. Which does NOT belong with others?
- (A) Milk (B) Cheese  
 (C) Butter (D) Cream
8. 6, 12, 14, 28, 30, 60, ?
- (A) 65 (B) 22  
 (C) 128 (D) 62

### 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. Which of the following constellations is correctly matched with its shape?

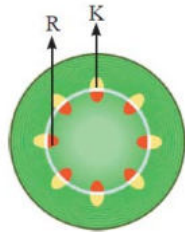


10. Identify the property that the following statements refers to.

You have two boxes that are similar in shape and size. The first box is made up of paper and the second is made up of some metal. Which box will make sharp sound when hit by a metallic spoon and which property is responsible for it?

- (A) Box 1, Ductility (B) Box 1, Sonority  
(C) Box 2, Sonority (D) Box 2, Malleability

11. Read the following statements and choose the correct term for 'R' and 'K'.



'R' is responsible for carrying water to the upper parts of the plant.

'K' is responsible for carrying food materials to other parts of the cell for storage.

- (A) R-Phloem, K-Xylem (B) R-Phloem, K-Cortex  
(C) R-Xylem, K-Phloem (D) R-Xylem, K-Cortex

12. Which of the following is used in the production of alcohol?

- (A) Nitrogen gas (B) Yeast  
(C) Fungi (D) Lactobacillus

13. Why water cannot be used to control fires caused due to electrical equipment?

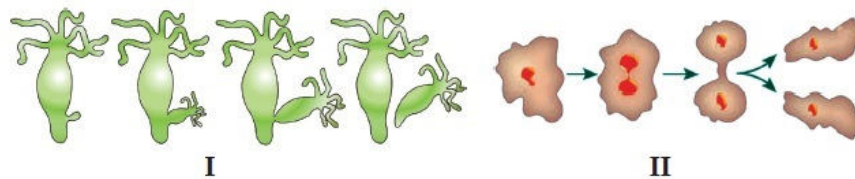


- (A) Water is a bad conductor of electricity.  
(B) Water must be save for future generations.  
(C) Water acts as an insulator.  
(D) Water is a good conductor of electricity thus will catch fire very easily.

14. Which action will you take for safety, during lightning and the thunderstorm?

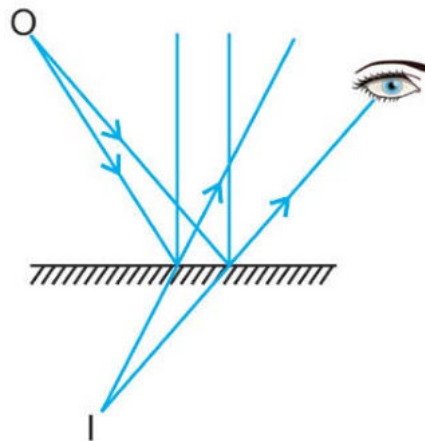
- (i) Rush to a safer place.  
(ii) Use an umbrella.  
(iii) Safe place is a house/building.

- (A) (i) and (ii) only                      (B) (iii) and (i) only  
 (C) (ii) and (iii) only                      (D) None of these
15. \_\_\_\_\_ is not considered as the member of the solar system?  
 (A) Comet                                      (B) Star  
 (C) Satellite                                    (D) Asteroid
16. Arrange the process of voice production in humans.  
 (i) Air passes through the slit.  
 (ii) Air is forced out from the lungs.  
 (iii) Vibration of vocal cords produces sound.  
 (A) (i) → (ii) → (iii)                      (B) (ii) → (iii) → (i)  
 (C) (iii) → (ii) → (i)                      (D) (ii) → (i) → (iii)
17. \_\_\_\_\_ is an example of endangered species.  
 (A) Bengal Tiger                              (B) Great Auk  
 (C) Passenger Pigeon                      (D) Langur
18. When the net forces acting on a key placed in a bucket of water is zero, then  
 (A) The key will float on the water.  
 (B) The key will sink in the water.  
 (C) The water from the bucket will fall out.  
 (D) None of the above
19. What is common in these two modes of reproduction?



- (A) Both diagrams shows sexual reproduction.  
 (B) I shows binary fission, II shows budding.  
 (C) Both diagrams shows budding.  
 (D) I shows budding, II shows binary fission.
20. \_\_\_\_\_ are the chemicals present on the head of a matchstick.  
 (A) Antimony trisulphide and potassium chlorate  
 (B) Nitrates and nitrites

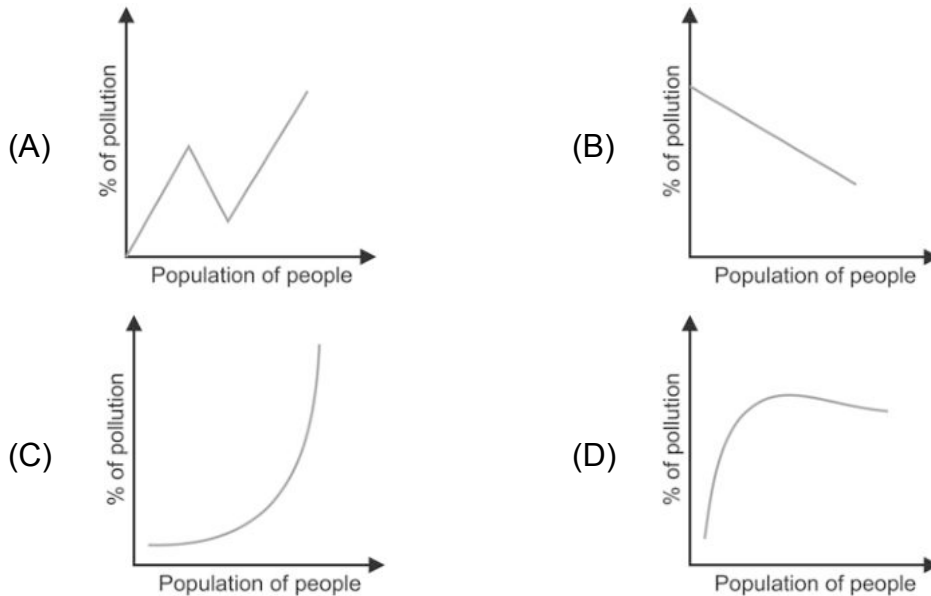
- (C) Potassium Chlorate and Cadmium  
(D) Lead oxide and Antimony trisulphide
21. Sachin used detergent cake and water for washing his dirty socks, which were easy to wash. He wanted to break a loose fibre from the socks. Instead of breaking, the fibre stretched like a rubber band. Which fibre has been used in the socks?
- (A) Acrylic (B) Rubber  
(C) Nylon (D) Polyester
22. Choose the correct combination of statements regarding harmful effect of weeds on crop plant.
- (i) They compete with crop plants for water, nutrients, space and light.  
(ii) They interfere in harvesting.  
(iii) They support crop plant in nourishment.
- (A) (i) only (B) (i) and (ii)  
(C) (i) and (iii) (D) (i), (ii) and (iii)
23. Garima is riding her bicycle and suddenly the brakes stopped working. What conclusion can be made by this?
- (A) Brake is working but cycle does not stop.  
(B) Cycle will skid on applying the brake.  
(C) Cycle will not stop on applying the brake.  
(D) None of these
24. What does the given diagram represent?



- (A) Incident and reflected rays on plane mirror  
(B) Formation of image in an eye

- (C) Law of reflection
- (D) Image formation of 'O' at 'I' in a plane mirror

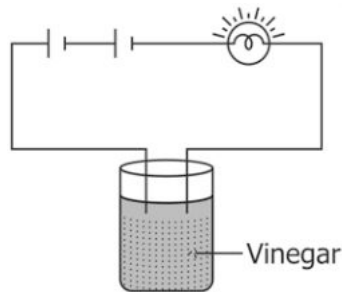
25. Which of the following graphs show the likely relationship between the percentages of pollution to the population of people in a particular town?



26. Which of the following can be considered as a disadvantage of friction?

- (A) Walking on a wooden floor
- (B) Aeroplane flying in air
- (C) Wearing out sole of the shoes
- (D) All of them

27. Which of the following statements is correct for the given diagram?



- (A) Vinegar conducts electricity.
- (B) Vinegar is a conductor.
- (C) Vinegar does not conduct electricity.
- (D) Both (A) and (B)

28. In the oil wells, natural gas forms the topmost layer, followed by oil and finally water. This happens because \_\_\_\_\_.

- (A) Water is lighter than gas and oil

- (B) Oil and gas have strong forces of attraction  
(C) Oil and gas are heavier than water  
(D) Water is heavier than oil and gas
29. Which of the following is a CORRECT pair?  
(A) Cation – Negative charge      (B) Anion – Positive charge  
(C) Cathode – Positive electrode      (D) Cation – Positive charge
30. The substances which have very high ignition temperature will \_\_\_\_\_.  
(A) Catch fire easily      (B) Not catch fire easily  
(C) Both of the above      (D) None of the above
31. \_\_\_\_\_ is an example of static electricity.  
(A) Working of air conditioner in summers  
(B) Seeing a spark and cracking sound when polyester clothes are removed in dark  
(C) Both (A) and (B)  
(D) None of the above
32. In the given question, a statement is followed by two conclusions numbered (i) and (ii). You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.
- Statement:** Jade plant has thick leaves and it requires little water.
- Conclusions:** (i) All plants with thick leaves require little water.  
(ii) Jade plants may be grown in places where water is not in abundance.
- (A) Only conclusion (i) follows.      (B) Only conclusion (ii) follows.  
(C) Either (i) or (ii) follows.      (D) None of these
33. Which of the following mirrors is fixed at the top of solar cooker?  
(A) Bifocal mirror      (B) Convex mirror  
(C) Plane or Concave Mirror      (D) None of these



### 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. Which of the following solutions of oxide in water will change the colour of red litmus to blue?
- (A) Magnesium oxide                      (B) Xenon Trioxide  
(C) Calcium oxide                         (D) Phosphorus pentoxide
35. Which of the following statements are CORRECT about Animal Cell?
- (A) Vacuoles are smaller in them than that of plant cell.  
(B) Cell wall is present in them.  
(C) They are bigger than plant cell.  
(D) Plastids cannot be found in them.
36. The changes which occur at adolescence are controlled by hormones. Which of the following statements are correct?
- (A) Hormones are chemical substances.  
(B) The male hormone is oestrogen.  
(C) The female hormone is testosterone.  
(D) Hormones are secreted by endocrine glands.
37. Which of the following are the examples of Kharif crops?
- (A) Wheat                                      (B) Paddy  
(C) Maize                                      (D) Pea
38. Choose the CORRECT statements.
- (A) Fossil fuels can be made in laboratory.  
(B) Coke is the pure form of carbon.  
(C) CNG is used in cars nowadays because it causes less pollution.  
(D) None of the above

39. Push or pull on an object is called force. Which of the activities given below describes pushing or pulling clearly?
- (A) A cricket ball hit by a batsman.
  - (B) Opening a drawer.
  - (C) Moving a book placed on a table.
  - (D) Flying a kite.
40. Droughts may be caused by \_\_\_\_\_ and \_\_\_\_\_.
- (A) Global warming
  - (B) Increased rainfall
  - (C) Disturbed water cycle due to increase in temperature of Earth
  - (D) Decrease in temperature of Earth

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