



GRADE 8

SCIENCE

School Level Examination (SLE) 2025

SUBJECT CODE

3

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Total Questions: 40

Total Marks: 40

Time: 1 Hour

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- Carefully fill in your **Name, Class, Roll Number**, and other required details on the **OMR Answer Sheet**.
- Use **only an HB pencil** to fill the OMR Answer Sheet.
- All questions are **compulsory** and carry **one mark** each.
- Only **OMR Answer Sheets** will be evaluated.
- There is **no negative marking** for incorrect answers.
- You may use the **last page** of the question paper for **rough work**.
- **Digital devices** like calculators, smart watches, or mobile phones are **not allowed**.
- After the exam, **submit** both the **OMR Answer Sheet** and the **Question Paper** to the invigilator.

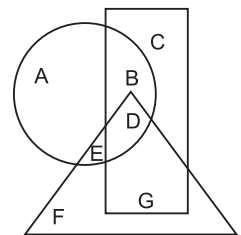
This question paper contains a total of 40 questions, divided into three sections: A, B, and C.

Section A (Logical Reasoning)

- A queue has 23 people. Ankita is standing in the middle. What will be her place if we start to count from the reverse of the queue?
 (A) 10th (B) 11th
 (C) 12th (D) 13th
- Pointing to a girl in a photograph, Manoj said, "She is the daughter of my grandfather's only child." How is the girl related to Manoj?
 (A) Self (B) Sister
 (C) Cousin (D) Data inadequate

- Which of the following statements is correct with respect to the given diagram?

- B and D are common to the circle and triangle.
- B is in common to all the three figures.
- D and G are in common to the rectangle and triangle.
- C and D are in the triangle.



- In a certain code, MOTHER is written as KMRFCP. How would FATHER be written in that code?

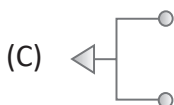
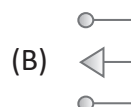
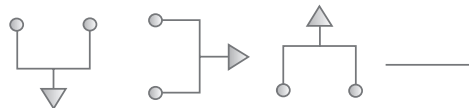
- DYRFCP
- DRPFCP
- HCRDCF
- GPRFCE

- Identify the category to which the word formed by arranging the given letters belongs.

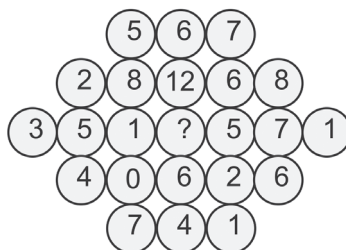
O T R E M H

- Siblings
- Grandparents
- Cousins
- Parents

- Which figure comes next in the given series?

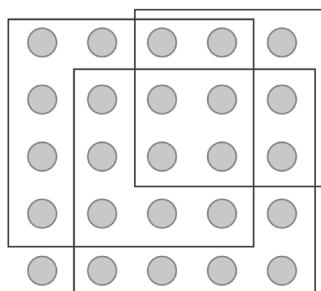


7. What number comes in the centre of the circle?



- (A) 11 (B) 6
(C) 4 (D) 2

8. How many small circles are inside all three squares?



- (A) 6 (B) 8
(C) 4 (D) 9

Section B (Subject Specific)

9. The planet closest to Sun is _____.
(A) Neptune (B) Jupiter
(C) Mercury (D) Earth
10. Find the incorrect match.
(A) LPG – Fuel for home (B) Petrol – Fuel for car
(C) Bitumen – Road surface (D) Paraffin wax – Paint
11. Sodium is a _____. It reacts vigorously with _____ present in the air. That is why, it is stored in _____.
(A) Metal, water, charcoal (B) Metal, nitrogen, water
(C) Metal, oxygen, kerosene (D) Non-metal, carbon dioxide, kerosene
12. Eutrophication is caused by
(A) Excess nutrients accumulating in water bodies
(B) Nutrient limitation in water bodies
(C) Preventing agricultural run-off reaching water bodies
(D) All of these.
13. Reproductive age in women primarily begins when
(A) Menstruation starts (B) Menstruation stops
(C) Body weight increases (D) Voice box enlarges.

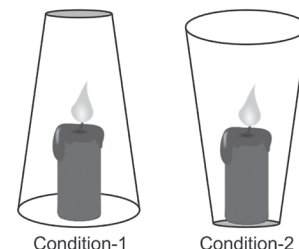
14. Properties of a fibre are given below. Identify the fibre.

- (i) It is prepared from petroleum.
- (ii) It is made of repeating units of ester.
- (iii) Terylene is an example of this fibre.

- (A) Artificial silk
- (B) Natural silk
- (C) Polyester
- (D) Nylon

15. What is your interpretation from the given diagram?

- (A) The candle in condition-1 will burn till the end, while the candle in condition-2 will put off quickly.
- (B) The candles burning in both the conditions will continue to burn till the end.
- (C) The candles burning in both the conditions will put off immediately.
- (D) The candle in condition-1 will burn till the oxygen in air is used up. The candle in condition-2 will continue to burn till the end, as oxygen is easily available.



16. Which is not caused by protozoa?

- (A) Malaria
- (B) Kala-azar
- (C) Dysentery
- (D) Dengue fever

17. Which of the following is a kharif crop?

- (A) Wheat
- (B) Millet
- (C) Gram
- (D) Pea

18. Which of the following is the best explanation of lateral inversion?

- (A) Apparent reversal of mirror image's up and down when compared with the object.
- (B) Apparent reversal of the image along its horizontal axis.
- (C) Apparent reversal of mirror image's left and right when compared with the object.
- (D) All of these

19. Read the following statements and select the correct option.

Statement 1: A substance that catches fire easily is called a combustible substance.

Statement 2: Stone and glass are examples of combustible substances.

- (A) Both statements 1 and 2 are correct.
- (B) Both statements 1 and 2 are incorrect.
- (C) Statement 1 is correct but statement 2 is incorrect.
- (D) Statement 1 is incorrect but statement 2 is correct.

20. After harvesting, the farmer stored the freshly harvested grains without drying them properly. After a few weeks, he found the grains were spoiled. What was the main reason for this?

- (A) Overuse of fertilisers
- (B) Inadequate irrigation
- (C) Moisture in the grains led to fungal and bacterial growth
- (D) Use of hybrid seeds

21. Match the following columns and select the correct option.

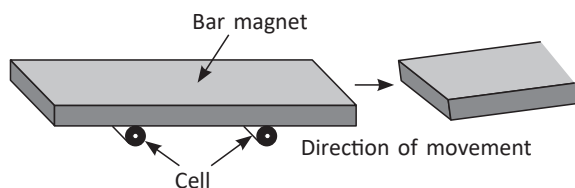
Column I	Column II	Column III
(i) Curdling of milk	p. Treatment of infections in body	e. Antibiotics
(ii) Fermentation	q. Promotes the formation of curd from milk	f. Algae
(iii) Medicines	r. Growth of microorganism in sewage and water bodies	g. Yeast
(iv) Eutrophication	s. Breakdown of sugar to release energy and carbon dioxide	h. Bacteria

- (A) (i-q-g), (ii-p-e), (iii-r-f), (iv-s-h) (B) (i-q-h), (ii-s-g), (iii-p-e), (iv-r-f)
 (C) (i-p-e), (ii-q-f), (iii-r-g), (iv-s-h) (D) (i-q-g), (ii-r-h), (iii-s-e), (iv-p-f)

22. A student adds dilute hydrochloric acid to two test tubes—one with zinc granules and the other with powdered carbon. A gas is evolved only in the test tube with zinc because

- (A) Zinc is a non-metal
 (B) Carbon reacts slowly with acid
 (C) Zinc being a metal reacts with acids to produce hydrogen gas
 (D) Hydrogen is already present in carbon.

23. Harshit has kept a bar magnet over two torch cells as shown in the diagram. Then, he brought another bar magnet close to this setup of bar magnet. He observed the bar magnet has rolled over the cells. Which force acted on the magnets and which type of force is it?



- (A) Muscular, contact (B) Magnetic, contact
 (C) Magnetic, non-contact (D) Muscular, non-contact

24. Electroscope is used to _____.

- (A) Measure the electricity (B) Test the charge of the object
 (C) Charge the electric current (D) Test electricity

25. Auto-vehicles produce _____.

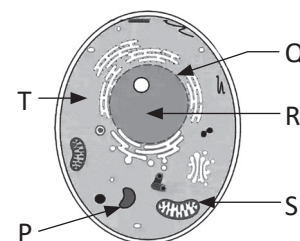
- (A) Carbon dioxide (B) Nitrogen oxide
 (C) Carbon monoxide (D) All of these

26. Which of the following is not the chemical effect of electric current?

- (A) Heating of bulb filament (B) Bubbles of gas are formed at electrodes
 (C) Solution changes the colour (D) Deposit of metal on electrodes

27. Look at the given figure and select the correct statement regarding P, Q, R, S and T.

- (A) P is the control centre of the cell.
 (B) Q is porous and allows the movement of materials between R and T.
 (C) S is a cell organelle that oxidises food to provide energy.
 (D) Both (B) and (C)



28. Drip irrigation is a boon in regions where availability of water is poor. This is because
- (A) This method can be used for fruit crops only and most of the fruit crops grow in regions where availability of water is poor.
 - (B) In this method, water for irrigation is obtained by condensing water vapour from atmosphere.
 - (C) In this method, water for irrigation is obtained by desalinating seawater.
 - (D) In this method, water falls drop by drop directly near the roots.

Instruction: Q. 29 to 33 are two-key based questions having four options A, B, C and D out of which TWO are correct.

29. Which of the following statements is true about microorganisms?
- (A) Microorganisms may be unicellular or multicellular.
 - (B) Microorganisms can survive in cold climate but cannot survive in hot climate.
 - (C) Microorganisms are not found inside the bodies of animals.
 - (D) Some microorganisms grow on other organisms, while others exist freely.
30. Which of the following are major consequences of deforestation?
- (A) Increased groundwater level
 - (B) Soil erosion
 - (C) Decrease in rainfall
 - (D) More oxygen in the atmosphere
31. Which of the following statements about plastics are incorrect?
- (A) Plastics are biodegradable materials.
 - (B) Plastics are bad conductors of electricity.
 - (C) Plastics do not affect the environment.
 - (D) Some plastics can be recycled to make new products.
32. Which of the following methods can be used to reduce friction?
- (A) Applying lubricants
 - (B) Making the surface rough
 - (C) Using ball bearings
 - (D) Increasing load
33. Which of the following statements is not true about fossil fuels?
- (A) Kerosene is not a fossil fuel.
 - (B) Fossil fuels were formed from dead remains of living organisms.
 - (C) Coal, petroleum and natural gas are fossil fuels.
 - (D) Fossil fuels can be made in the laboratory.

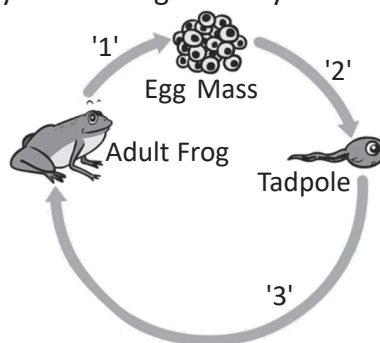
Section C (Competency Enhancement)

34. Match the following and select the correct option.

Column I	Column II
(i) It protects the inner contents of the cell.	p. Centrosome
(ii) It is rigid, thick, permeable and made of cellulose.	q. Vacuole
(iii) It is absent in plant cells.	r. Cell membrane
(iv) It is centrally located and occupies large space of the plant cell.	s. Cell wall

- (A) i-q, ii-p, iii-r, iv-s
- (B) i-r, ii-p, iii-s, iv-q
- (C) i-q, ii-r, iii-s, iv-p
- (D) i-r, ii-s, iii-p, iv-q

35. Read the following statements regarding noise pollution and select the correct option.
- (A) All noisy operations must be conducted away from any residential area.
 - (B) Noise producing industries should be set up near hospital areas.
 - (C) Trees must cut along the roads and around buildings to cut down on the sounds reaching the residents.
 - (D) Use of automobile horns should be maximised.
36. The given diagram shows the life cycle of a frog. Identify '3' in it.



- (A) Fertilisation
 - (B) Development
 - (C) Hatching
 - (D) Metamorphosis
37. Rounak was washing his dirty socks. 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) Rayon
 - (B) Nylon
 - (C) Polyester
 - (D) Acrylic
38. Choose the correct statement(s) regarding harmful effects of weeds on crop plant.
- (i) They compete with crop plants for water, nutrients, space and light.
 - (ii) They interfere in harvesting.
 - (iii) They affect plants' growth.
 - (iv) They support crop plant in nourishment.
- (A) (i) only
 - (B) (i) and (ii) only
 - (C) (i), (ii) and (iii) only
 - (D) (i), (ii), (iii) and (iv)
39. What is different in each group? Identify it and choose the correct option.
- Group-1 : Drying, Freezing, Winnowing, Pasteurisation
- Group-2 : Common cold, Malaria, Hepatitis, Polio
- Group-3 : Cocci, Spirilla, Vibrio, Virus
- Group-4 : *Bacillus*, *Volvox*, *Chlamydomonas*, *Spirogyra*
- (A) Drying, Malaria, Virus, *Volvox*
 - (B) Winnowing, Malaria, Virus, *Bacillus*
 - (C) Winnowing, Polio, Vibrio, *Volvox*
 - (D) Freezing, Common cold, Cocci, *Chlamydomonas*
40. Read Assertion and Reason and choose the correct option.
- Assertion (A):** Ploughing the field is essential before sowing seeds.
- Reason (R):** Ploughing helps loosen the soil, allowing better root penetration and air circulation.
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
 - (B) Both (A) and (R) are correct, but (R) is the incorrect explanation of (A).
 - (C) (A) is correct, but (R) is incorrect.
 - (D) (A) is incorrect, but (R) is correct.

SPACE FOR ROUGH WORK