



GRADE 7

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

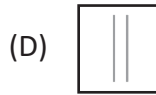
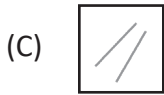
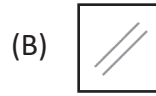
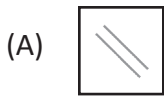
- Carefully fill in your **Name, Class, Roll Number**, and other required details on the **OMR Answer Sheet**.
- Use **only an HB pencil** to fill the OMR Answer Sheet.
- All questions are **compulsory** and carry **one mark** each.
- Only **OMR Answer Sheets** will be evaluated.
- There is **no negative 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)

- Look at this series: J14, L16, __?__, P20, R22. What number should fill the blank?
 (A) S24 (B) N18
 (C) M18 (D) T24

- Choose the figure which is different from the rest.



- In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code?
 (A) ESJTPTF (B) ESOPSID
 (C) DSOESPI (D) CHRONRD
- Find the missing term in the following series.
 DCXW, HGTS, ?, POLK, TSHG
 (A) NMWV (B) LKOP
 (C) JKYZ (D) LKPO
- Pointing to a photograph of a boy, Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy?
 (A) Brother (B) Uncle
 (C) Cousin (D) Father
- How many 7's are there in the following number series which are immediately preceded by 2 and succeeded by 4?
 2 7 4 7 2 7 2 7 2 7 4 2 4 2 7 2 4 7 2 7 2 7 4 2
 (A) 3 (B) 2
 (C) 4 (D) 5
- Four friends tried to guess the number of sheep in a flock.
 Akash guessed 21, Bobby guessed 26,
 Chris guessed 20, and Daniel guessed 21.
 Two were wrong by 2, and two were wrong by 3. How many sheep were in the flock?
 (A) 19 (B) 23
 (C) 24 (D) 22

8. Complete the pattern and choose the correct option.



Section B (Subject Specific)

9. Which of the following shows the correct colour change?

	Sample	Blue litmus to red	Red litmus to blue
(i)	Vinegar	✓	×
(ii)	Shampoo	×	✓
(iii)	Baking soda	✓	×
(iv)	Glucose	✓	×

(A) (i) and (ii)

(B) (iii) and (iv)

(C) (i) and (iv)

(D) (ii) and (iii)

10. Which of the following devices measures the distance travelled by the vehicle?

(A) Speedometer

(B) Odometer

(C) Barometer

(D) Manometer

11. Phenolphthalein indicator is turned pink by a solution. The solution is _____.

(A) Acidic

(B) Basic

(C) Neutral

(D) None of these

12. Which of the following is true for inhalation?

(A) Ribs move up and outwards, diaphragm moves down

(B) Ribs move down and inwards, diaphragm moves up

(C) Ribs move up and inwards, diaphragm moves down

(D) Ribs move down and outwards, diaphragm moves up

13. Which of the following processes involves the transfer of heat through direct contact between two objects?

(A) Convection

(B) Radiation

(C) Conduction

(D) Insulation

14. Which of the following is a parasitic plant that lacks chlorophyll and obtains nutrients from host plant?

(A) Lotus

(B) Cuscuta

(C) Lily

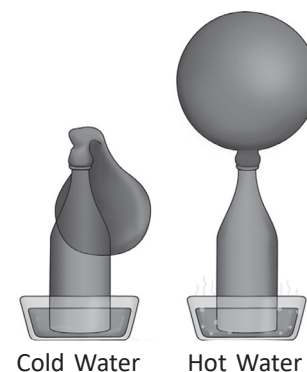
(D) Tulip

15. Which of the following nutrients is/are found in fertilisers and manures?

- (A) Nitrogen (B) Phosphorus
(C) Potassium (D) All of these

16. Look at the given figure and select the correct option.

- (A) This shows air expands on cooling and contracts on heating.
(B) This shows air expands on heating and contracts on cooling.
(C) Warm air is heavier than cold air.
(D) None of these



17. What happens to the molecules in a substance when it gets heated?

- (A) They slow down. (B) They speed up and move apart.
(C) They remain at the same position. (D) They get smaller.

18. A student conducted an experiment to find the pH of different solutions. The results are tabulated as follows:

- | | |
|------------------------|------------------------|
| • Solution A; pH = 8.5 | • Solution B; pH = 6.5 |
| • Solution C; pH = 7.0 | • Solution D; pH = 4.0 |

Based on these results, which solution is the most acidic?

- (A) Solution A (B) Solution B
(C) Solution C (D) Solution D

19. The characteristic weather pattern over a long period of time is called _____.

- (A) Weather (B) Climate
(C) Season (D) Atmosphere

20. Which of the following blood components keeps you healthy by fighting off germs in your body?

- (A) Red blood cells (B) Plasma
(C) Platelets (D) White blood cells

21. Which of the following statements are correct if switch is in OFF position in a circuit?

- (i) No current flows through it.
(ii) Current flows through it.
(iii) Circuit is open.
(iv) Current flows from positive terminal to negative terminal of the cell.

- (A) (i) and (ii) (B) (iii) and (iv)
(C) (i) and (iii) (D) (ii) and (iv)

22. Which of the following can be used as rear view mirror in a vehicle?

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

23. Which of the following statements is incorrect?

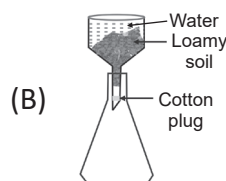
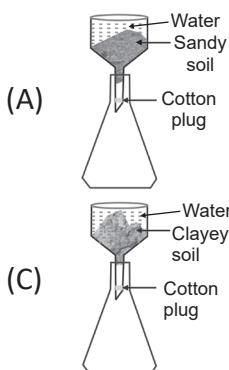
- (A) Wind speed, temperature and humidity contribute to development of cyclone.
- (B) Winds blowing at a speed of 60 km/h or less are called cyclones.
- (C) A cyclone is known as hurricane in American continent.
- (D) High speed winds are accompanied by reduced air pressure.

24. Which statement(s) describe both aerobic and anaerobic respiration correctly?

	Aerobic respiration	Anaerobic respiration
Statement 1	Takes place in absence of oxygen	Takes place in presence of oxygen
Statement 2	It releases more energy.	It releases less energy.
Statement 3	Last product formed is water	Water is not formed.
Statement 4	Occurs only in cytoplasm	Occurs both in the cytoplasm and mitochondria

- (A) Statements 1 and 4 only
- (B) Statements 1 and 3 only
- (C) Statements 2 and 3 only
- (D) Statements 1, 2, 3 and 4

25. An experiment is conducted to check the retention of water by sandy, loamy and clayey soil. Which sample of soil will retain more water?



- (D) All have same retention rate.

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

Statement 1: Algae and some bacteria are examples of autotrophs.

Statement 2: Autotrophs can make their own food by the process of photosynthesis.

- (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.

27. Read the following statements regarding digestion in grass eating animals and select the correct one.

- (A) These animals quickly swallow the grass and store it in a part of the stomach called rumen.
- (B) The cud (partially digested food) returns to the mouth in small lumps and the animal chews it by the process called rumination.
- (C) In ruminants like cattle, deer, etc., bacteria present in rumen helps in digestion of cellulose.
- (D) All of these

28. Bar screen in 'Waste Water Treatment Plant' is used for _____.
(A) Removing dirt (B) Removing large objects
(C) Removing small objects (D) Removing dust

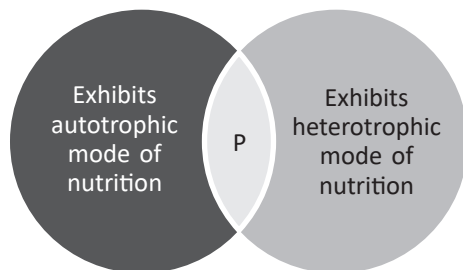
Instruction: Q. 29 to 33 are two-key based questions having four options A, B, C and D out of which TWO are correct.

29. Which of the following statements about respiration in organisms are incorrect?
(A) Aerobic respiration involves taking in oxygen. (B) Respiration is the process of releasing oxygen.
(C) Respiration occurs only in animals. (D) Respiration releases energy stored in food.
30. Which of the following adaptations helps animals survive in extreme cold climate?
(A) Thick fur (B) Nocturnal behaviour
(C) Large ears for heat dissipation (D) Hibernation
31. Which of the following statements are correct?
(A) LED bulbs are less efficient than incandescent bulbs.
(B) MCBs usage is better as it automatically turns off when current exceeds the safe limit.
(C) A door bell works on the principle of heating effect of electric current.
(D) Nichrome wire can withstand high temperature without melting.
32. Which of the following are the functions of the kidneys?
(A) Filtering blood (B) Producing insulin
(C) Removing waste from the body (D) Digesting food
33. Which of the following physical changes can be reversed?
(A) Cutting of vegetables (B) Stretching of a rubber band
(C) Breaking of a glass tumbler (D) Making a boat by folding a paper

Section C (Competency Enhancement)

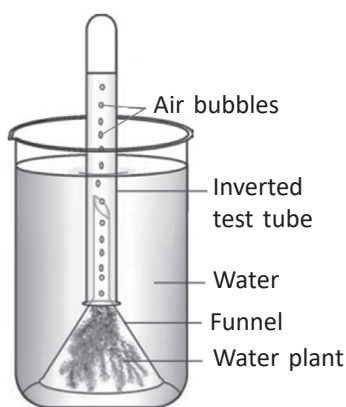
34. If a car takes 60 minutes to cover a distance of 210 km, then car is moving with a speed of _____.
(A) 27.7 m/s (B) 13.8 m/s
(C) 58.3 m/s (D) 83.3 m/s
35. Read the given statements and select the correct option:
Statement 1: Synthetic fibres are obtained from plants and animals.
Statement 2: Nylon and polyester are examples of synthetic fibres.
(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.

36. Study the given Venn diagram carefully and identify P.



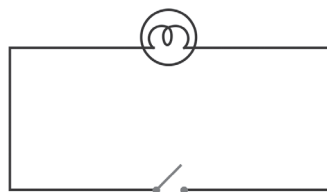
- (A) China rose (B) Venus flytrap (C) Bread mould (D) Dodder

37. In the figure given below, a set-up is placed in sunlight. The gas produced in this set-up caused bubbles to emerge and get accumulated in the inverted test tube. Which gas is this?



- (A) Nitrogen (B) Hydrogen (C) Carbon dioxide (D) Oxygen

38. Which of the following component should be added to complete the given circuit diagram?



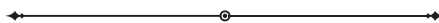
- (A) (B) (C) (D)

39. Swati took half bucket of hot water from the geyser. The temperature of water was 50°C . She added equal amount of cold water having 20°C temperature. The temperature of mixed water will be _____.

- (A) $50^{\circ}\text{C} + 20^{\circ}\text{C} = 70^{\circ}\text{C}$ (B) 20°C
(C) 50°C (D) Between 20°C and 50°C

40. Select the correct order of urine movement by arranging the parts of excretory system.

- (i) Bladder (ii) Kidney
(iii) Ureter (iv) Urethra
(A) (ii) $\rightarrow$ (iii) $\rightarrow$ (i) $\rightarrow$ (iv) (B) (i) $\rightarrow$ (iii) $\rightarrow$ (iv) $\rightarrow$ (ii)
(C) (ii) $\rightarrow$ (iv) $\rightarrow$ (i) $\rightarrow$ (iii) (D) (iv) $\rightarrow$ (iii) $\rightarrow$ (i) $\rightarrow$ (ii)



SPACE FOR ROUGH WORK