



School Level Examination
SLE 2023

GRADE
7

SCIENCE

Subject Code:

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Total Questions: 40

Time: 1 hour

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 a **BLUE/BLACK BALLPEN** only.
- You **MUST** record your answers on the **ANSWER SHEET** only.
- There are **40 MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** fill in the circle that matches your answer.
- Marks are **NOT** deducted for incorrect answers.
- Return the **ANSWER SHEET** to the invigilator at the end of the examination.
- You are **NOT** allowed to use a calculator. You may use a ruler and spare paper for rough work.

SCIENCE

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

Read the instructions carefully before attempting these questions.

Section A (Logical Reasoning)

- If Eye is called Hand, Hand is called Mouth, Mouth is called Ear, Ear is called Nose, and Nose is called Tongue, then with which of the following would a person hear?

(A) Eye	(B) Mouth
(C) Nose	(D) Ear
- P, Q, R, S and T are sitting on a bench. P is sitting next to Q, S is sitting next to R, S is not sitting with T, who is on the left end of the bench. R is on the second position from the right. P is on the right of Q and T. On which position P is sitting?

(A) Between T and S	(B) Between Q and R
(C) Between Q and S	(D) Between S and R

- Choose the figure which is different from the rest.



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

- Arrange the following words in alphabetical order as they are arranged in a dictionary, and choose the word that comes last.

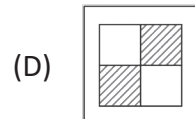
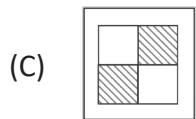
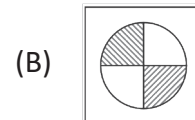
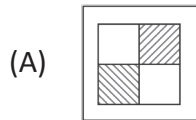
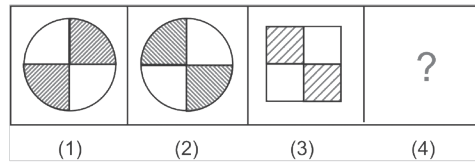
(A) Prominent	(B) Prohibition
(C) Programme	(D) Prolong
- The words in the bottom row are related in the same way as the words in the top row. For each item, find the word that completes the bottom row of words.

Apples	Fruit	Supermarket
Novel	Book	?

- | | |
|---------------|---------------|
| (A) Bookstore | (B) Vegetable |
| (C) Shopping | (D) Magazine |
- If you are the eleventh person in a queue starting from either end, how many other people are in the queue?

(A) 11	(B) 20
(C) 21	(D) 22

7. Select one of the answer choices that will fit in the place of (?)



8. In the below mentioned 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.

Statements:

- Some boys are adult.

- All adults are intelligent.

Conclusions:

- (i) All boys are intelligent.

- (ii) All adults are boys.

- (A) Only conclusion (i) follows

- (B) Only conclusion (ii) follows

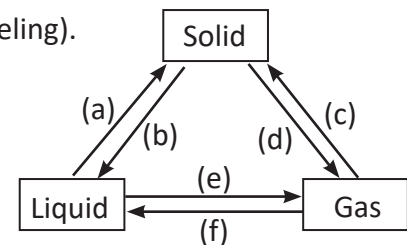
- (C) Either (i) and (ii) follows

- (D) Neither (i) and (ii) follows

Section B (Subject Specific)

9. Refer to the given figure and identify the correct labelling (any three labelling).

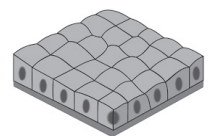
- (A) a- Freezing, d-Condensation, f- Sublimation
 (B) b- Melting, c- Deposition, e- Evaporation
 (C) d- Freezing, e- Sublimation, f- Melting
 (D) c- Deposition, d- Freezing, e- Condensation



10. Look at the given figure.

This type of epithelial tissues is found in_____.

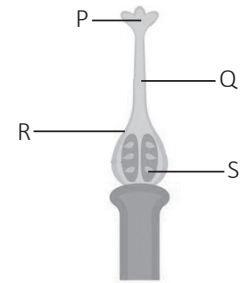
- (A) delicate lining of cavities
 (B) kidney tubules
 (C) covering of tongue
 (D) lining of fallopian tube



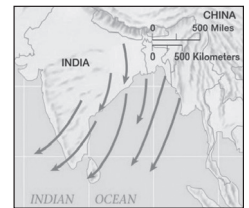
11. Which one of the following is not associated with top soil?

- (A) Rich in minerals and humus
 (B) Below B-horizon
 (C) Fertile and nutritive for plants
 (D) Soft, porous and retains water

12. Which of the following diseases is not water-borne?
 (A) Diarrhea (B) Dysentery
 (C) Influenza (D) Cholera
13. Refer to the given figure and identify the correct statement(s) related to P, Q, R and S.



- (A) P is the terminal sticky knob that receives pollen grains from other flowers.
 (B) Q is the long neck like part of male reproductive structure.
 (C) R contains S that develop into seeds upon fertilization.
 (D) Both (A) and (C)
14. The given map of India shows the direction of north-east winds. This causes _____.



- (A) rain as the winds come from sea towards the land
 (B) little rain as the winds come from land towards the sea
 (C) no rain
 (D) None of these
15. The food synthesised by the plant is stored in the form of _____.

- (A) Glucose (B) Starch
 (C) Fat (D) Protein
16. Why do insectivorous plants trap insects?
 (A) Due to symbiotic relation between plant and insect
 (B) They usually grow in soil that is deficient in nitrogen.
 (C) Due to special tubular structures
 (D) None of these
17. Select the correct term used for removal of the faeces from the body through anus.
 (A) Ingestion (B) Digestion
 (C) Egestion (D) Assimilation

18. Refer to the given Venn diagram and select the correct option that will replace X.

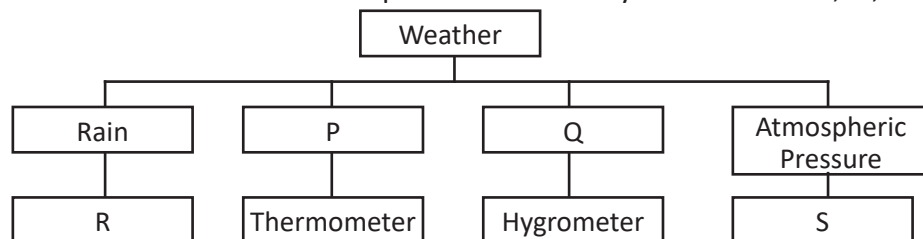


19. Read the given table and identify the correct inference in the place of P, Q, R and S.

S. No	Solution to be tested	Effect on turmeric powder	Inference
1.	Soap solution	Yellow colour changes to red	P
2.	Salt solution	No change	Q
3.	Sugar solution	No change	R
4.	Shampoo solution	Yellow colour changes to red	S

- (A) P, S -Basic solution; Q, R- Neutral solution (B) P, R -Basic solution; Q, S- Neutral solution
 (C) P, Q, R, S-Acidic solution (D) P, Q, R, S -Basic solution

20. Study the given flow chart and select the option that correctly identifies the P, Q, R and S.



- (A) P-Temperature, Q-Humidity, R-Rain gauge, S-Barometer
- (B) P-Barometer, Q-Humidity, R-Rain gauge, S-Thermometer
- (C) P-Temperature, Q-Density, R-Rain gauge, S-Barometer
- (D) P-Manometer, Q-Humidity, R-Rain gauge, S-Barometer

21. The plant part that takes in carbon dioxide from the air for photosynthesis is _____.

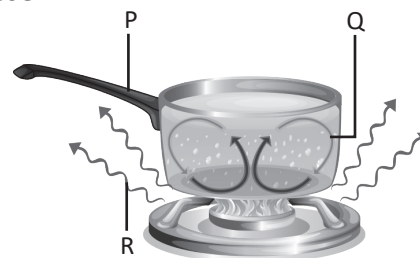
- (A) stomata
- (B) veins
- (C) root
- (D) petals

22. Why stainless steel pans are usually provided with copper bottoms?

- (A) To make such pans look more beautiful
- (B) Copper is better conductor of heat
- (C) It helps to clean the pans easily
- (D) None of these

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

- (A) No medium is required for transfer of heat by the process R.
- (B) P is the process by which heat is transferred from the hotter end to the colder end of an object.
- (C) Q is the process that cannot take place in empty spaces.
- (D) All of these



24. Read the following statements and select the INCORRECT option:

- (A) *Bryophyllum* leaf falls on a dry soil, each bud can give rise to a new plant.
- (B) Roots of sweet potato and dahlia can also give rise to new plants.
- (C) Plants produced by vegetative propagation take more time to grow and bear flowers and fruits later than those produced from seeds.
- (D) Both (A) and (C)

25. Which statement(s) describe(s) both uniform and non- uniform motion correctly?

	Uniform motion	Non-uniform motion
Statement 1	If the speed of an object moving along a straight line keeps changing, its motion is said to be uniform motion.	On the other hand, an object moving along a straight line with a constant speed is said to be in non-uniform motion.
Statement 2	Average speed is generally different from the actual speed.	Average speed is same as the actual speed.
Statement 3	Distance time graph is a straight line.	Distance time graph is a curved line.

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

26. Which of the following places is unlikely to be affected by cyclone?
 (A) Chennai (B) Goa
 (C) Odisha (D) Chandigarh
27. Joggers often develop cramps in their calf muscles. Which of these chemicals, when produced, causes muscle cramps?
 (A) Glucose (B) Alcohol
 (C) Lactic acid (D) Carbon dioxide
28. The given diagram represents _____.



- (A) Food web (B) Producers only
 (C) Food chain (D) Consumers only

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 followings are correct examples of physical changes?
 (A) Breaking of glass (B) Shredding of paper
 (C) Digestion of food (D) Ripening of fruit
30. From the following select the examples of curvilinear motion.
 (A) Turning of potter's wheel (B) Turning of bicycle wheel
 (C) A cyclist racing on curved track (D) A train moving on a curved track
31. Read the following statements regarding *Cuscuta* plants and select the correct option.
 (A) It does not have chlorophyll.
 (B) It takes readymade food from the plant on which it is climbing.
 (C) It prepares its own food.
 (D) It is also known as Pitcher plant.
32. Which among the following is/are adaptive features of polar bear?
 (A) Layer of fat under skin and thick fur (B) Slippery body
 (C) Poor sense of smell (D) Long curved, sharp claws
33. Which of the following are NOT natural methods of vegetative propagation?
 (A) Cutting (B) Grafting
 (C) Fragmentation (D) Spore formation

Section C (Competency Enhancement)

34. Study the given figure. From the labelled parts suggest the part of the ship that will rust fastest.

- (A) X and Z
- (B) Y only
- (C) Y and Z
- (D) Z only



35. Some of the plant parts are given below.

- (i) Roots
- (ii) Branch
- (iii) Seed
- (iv) Fruit
- (v) Flower

Which of the above parts play role in sexual reproduction?

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

36. Read the following statements and select the correct option:

- (A) The surface of water can also act like a mirror and change the path of light.
- (B) The change of direction by a mirror is called reflection of light.
- (C) The most common example of a curved mirror is a spherical mirror.
- (D) All of these

37. A science teacher demonstrated the following activity in the classroom. She poured hot water in a bottle and tightened the lid, then she poured cold water over the bottle. The bottle got distorted. The teacher wanted to know the reason from the class. What could be the reason behind it?

- (A) Sudden increase in temperature collapse the bottle.
- (B) Bottle exerts pressure on the cold water.
- (C) The hot water in bottle exerts pressure on the bottle wall. When cold water is poured on it, it suddenly contracts because the pressure is reduced.
- (D) All of these

38. Read the given statements and select the correct option:

Statement 1: Shearing does not hurt the sheep.

Statement 2: The uppermost layer of skin of sheep is dead.

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

39. An organism divides into two or more parts and every single part generates new individual. Which kind of reproduction is it?

- (A) Budding
- (B) Stem cutting
- (C) Spore formation
- (D) Fragmentation

40. Last week, Danu could see through the lake's water. Today, he saw that the lake's water has turned green due to algae formation. What mode of reproduction has caused rapid change?

- (A) Sexual reproduction
- (B) Budding
- (C) Pollination
- (D) Fragmentation

