



School Level Examination
SLE 2023

GRADE
8

SCIENCE

Subject Code:

3	0	1
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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)

1. Shyam travels 7 km to the North, he then turns to his right and walks 3 km. Again, he turns to his right and moves 7 km forward. How many kilometres away is he from the starting point?
 (A) 3 km (B) 6 km
 (C) 10 km (D) 13 km

2. Here are some words translated from an artificial language.
 hapllesh means 'cloudburst'
 srenchoch means 'pinball'
 resbosrench means 'ninepin'

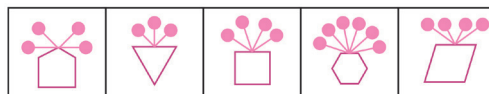
Which word could mean 'cloud nine'?

- (A) leshsrench (B) haploch
 (C) haplresbo (D) ochhapl

3. Select a Venn diagram from the options which best illustrates the relation amongst "Boys, Athletes and Singers"?

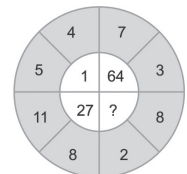


4. Choose the figure which is different from the rest.



5. Find the missing number in the adjoining figure _____.

- (A) 0 (B) 216
 (C) 125 (D) 256

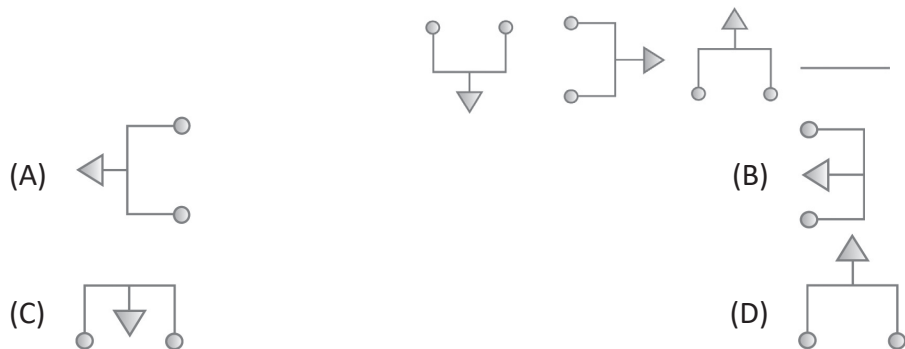


6. What will come in place of question mark?

Illiteracy : Education :: Flood : ___ ? ___

- (A) Rain (B) Bridge
 (C) Dam (D) River

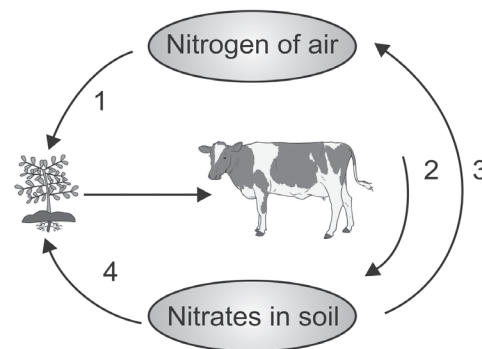
7. If the letters of the first half of the English alphabet series are written in reverse order, then which letter should be 8th letter to the left of 14th letter from the right end?
- (A) E (B) G
(C) F (D) I
8. Which figure comes next in the given series?



Section B (Subject Specific)

9. Read the given statements about microorganisms and select the incorrect one.
- (A) They live in all types of environment.
(B) These are used in the preparation of curd, bread and cake.
(C) Bacteria and yeast are also helpful for fermentation of rice idlis and dosa batter.
(D) Microorganisms are not used in drug production.
10. Which metal is used for making foil to pack foodstuffs and medicines?
- (A) Zinc (B) Iron
(C) Aluminium (D) Copper
11. Which of the following product of coal is used in the manufacture of steel?
- (A) Coke (B) Coal Tar
(C) Coal Gas (D) None of these
12. Read the given statements and select the correct one.
- (i) Viruses reproduce only inside the cells of the host organism.
(ii) Cold, influenza (flu) and most coughs are caused by viruses.
(iii) Serious diseases like polio and chicken pox are also caused by viruses.
- (A) (i) and (ii) only (B) (ii) only
(C) (i) and (iii) only (D) (i),(ii) and (iii)
13. Project-Tiger is involved with _____.
- (A) Rearing of tigers (B) Survival and maintenance of tigers
(C) Hunting of tigers (D) All of these

14. Observe the given diagram and label process 1, 2, 3 and 4.
- (A) 1-Nitrogen rain, 2-Decomposition of excreta, 3-N₂ fixation, 4-Breakdown of N₂ by bacteria
- (B) 1-Decomposition of excreta, 2-Breakdown of N₂ compound by bacteria, 3-Absorption by plants, 4-N₂ fixation
- (C) 1-N₂ fixing bacteria, 2-Breakdown of N₂ compound by bacteria, 3-Absorption by plants, 4-Decomposition of excreta
- (D) 1-N₂ fixation by plants, 2-Decomposition of excreta, 3-Breakdown of N₂ compounds by bacteria, 4-Absorption by plants



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

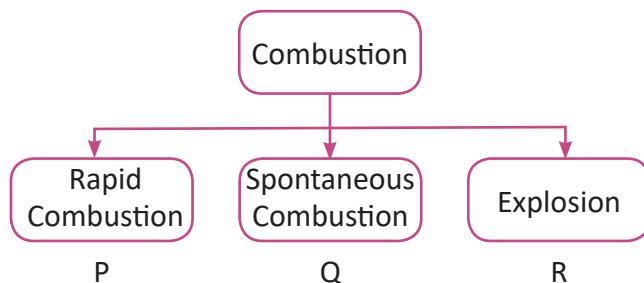
Statement 1: Natural gas is a very important fossil fuel.

Statement 2: Natural gas is easy to transport through pipes.

- (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.
16. While going to her native place during vacations, Simmi saw the following tool in an agricultural piece of land. Identify this tool.



- (A) Hoe (B) Seed Drill
- (C) Tractor (D) None of these
17. Select the option that correctly identifies P, Q and R.



- (A) P-Burning of gas stove, Q- Coal dust in coal mine, R-Fire crackers
- (B) P- Coal dust in coal mine, Q- Burning of gas stove, R-Fire crackers
- (C) P- Fire crackers, Q- Coal dust in coal mine, R- Burning of gas stove
- (D) P-Burning of gas stove, Q- Fire crackers, R-Coal dust in coal mine
18. While performing experiment in laboratory, the teacher advised students not to wear synthetic clothes. What could be the most appropriate reason behind her advice?
- (A) These clothes stick to the body. (B) These clothes melt on heating.
- (C) They catch fire very easily. (D) All of these
19. Why is carbon dioxide considered the best fire extinguisher to put off fire caused by burning of inflammable liquids?
- (A) CO₂ is the heavier than oxygen. (B) It covers the fire like blanket.
- (C) It does not harm the electrical equipment. (D) All of these

20. Match the column I with column II and select the correct option.

Column I (Forces)	Column II (Examples)
(P) Gravitational	1. Attraction of paper to charged comb
(Q) Muscular	2. Ball falls down when thrown upwards
(R) Frictional	3. Boat comes to rest once stopped rowing
(S) Electrostatic	4. Blood gets pushed into arteries

(A) P-4, Q-3, R-2, S-1

(B) P-3, Q-4, R-2, S-1

(C) P-2, Q-1, R-4, S-3

(D) P-2, Q-4, R-3, S-1

21. On which of the following principle do spring balance work?

- (A) Greater the force, the greater is the extension that the force produces in a coiled spring
- (B) Smaller the force, the greater is the extension that the force produces in a coiled spring
- (C) Smaller the force, the smaller is the extension that the force produces in a coiled spring
- (D) None of these

22. 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 mirror image when compared with the object.
- (C) Apparent reversal of mirror image's left and right when compared with the object.
- (D) All of these

23. Read the statements and select the correct ones.

- (i) Deforestation is a major cause which leads to the change in soil properties.
- (ii) Physical properties of the soil gets affected by plantation and vegetation.
- (iii) The conversion of fertile land into deserts is called desertification.

(A) (i) and (ii) only

(B) (iii) only

(C) (ii) and (iii) only

(D) (i), (ii) and (iii)

24. Why are mica sheets used in iron instruments?

- (A) Mica is a good conductor of electricity.
- (B) Mica is a bad conductor of electricity.
- (C) Mica is a bad conductor of electricity, but a good conductor of heat.
- (D) Mica is very light and bad conductor of electricity.

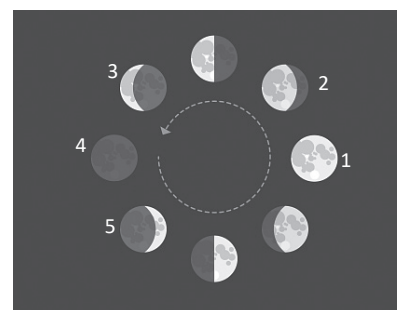
25. Select the incorrect statement.

- (A) Electroplating is one of the most common applications of chemical effects of electric current.
- (B) Chromium has a shiny appearance and it does not resist scratches.
- (C) Tin cans which are used for storing food, are made by electroplating tin onto iron.
- (D) Iron is used in bridges and automobiles to provide strength.

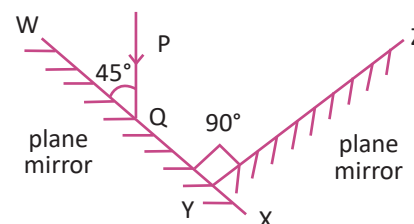
26. Adolescence can be best defined as _____.

- (A) becoming old
- (B) the period of life when the body of an individual stops to change
- (C) the period of life when the body of an individual undergoes changes, leading to reproductive maturity
- (D) ability to reproduce

27. Identify the correct labellings of the phases of moon.
- (A) 1-Full Moon, 2-Waning gibbous Moon, 3-Waning crescent Moon, 4-New Moon, 5- Waxing crescent Moon
- (B) 1-New Moon, 2-Waxing gibbous Moon, 3-Waning crescent Moon, 4-Full Moon, 5- Waxing crescent Moon
- (C) 1- Waning crescent Moon, 2- Waning gibbous Moon, 3-Full Moon, 4-New Moon, 5- Waxing crescent Moon
- (D) 1-New Moon, 2-Waning gibbous Moon, 3-Waning crescent Moon, 4-Full Moon, 5- Waxing gibbous Moon



28. Ram placed two plane mirrors WX and YZ at right angles to one another. A ray of light PQ hits WX at Q making an angle 45° as shown in the diagram.



This ray will be reflected from mirror XZ at an angle-----.

- (A) 15° (B) 25°
(C) 90° (D) 45°

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

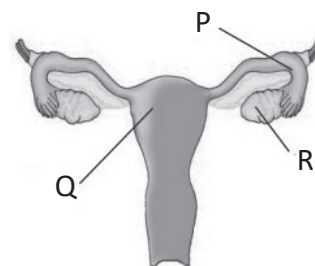
29. Which of the following crops are sown in rainy season?
- (A) Paddy (B) Wheat
(C) Millet (D) Gram
30. Select the options that do not conduct heat and electricity.
- (A) Copper (B) Gold
(C) Neon (D) Argon
31. Which of the following planets have no moon?
- (A) Venus (B) Neptune
(C) Mercury (D) Mars
32. Polyester is a synthetic fibre. Fabric made from polyester
- (A) does not get wrinkled easily (B) remains crisp and is easy to wash
(C) is not suitable for making dress material (D) is also called artificial silk.
33. Which of the following is/are different in context to greenhouse gases?
- (A) Chlorine (B) Methane
(C) Nitrogen (D) Water vapour

Section C (Competency Enhancement)

34. A farmer cultivates wheat followed by a leguminous crop on his field. What is the reason behind it?
- (A) To maintain soil fertility (B) To replenish the soil quality
(C) To earn money (D) Both (A) and (B)

35. Look at the given diagram and select the INCORRECT statements.

- (A) P is the part where development of the baby takes place.
- (B) R produces female gametes called eggs.
- (C) Q is also known as oviduct.
- (D) Both (A) and (C)



36. Match the following and select the correct option.

Disease	Symptoms
p. Chickenpox	(i) Diarrhoea and dehydration
q. Typhoid	(ii) Painful swelling near the jaw
r. Cholera	(iii) Red spots which turn to blisters and then to scabs
s. Mumps	(iv) Dry cough, fever, constipation

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

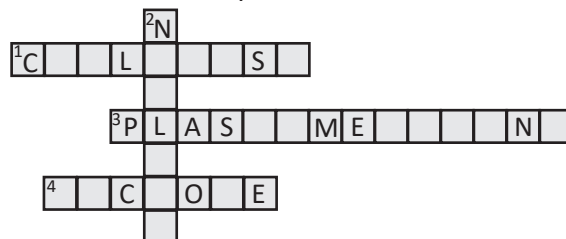
37. Which action will you take for safety, when the lightning and the thunderstorm is there?

- (i) Rush to a safer place.
- (ii) Wait at safe place for thunderstorm to end.
- (iii) Safe place is a house/building.
- (iv) Use an umbrella.
- (A) (i), (ii) and (iv)
- (B) (iii) and (iv)
- (C) (ii), (iii) and (iv)
- (D) (i), (ii) and (iii)

38. The raw material, wood pulp, is chemically treated to make a fibre that is similar in appearance to the natural fibre. But the natural fibre is very expensive. Though this fibre is made from a natural source, it is not a natural fibre. It is used mostly in making bedsheets and carpets. Which fibre is it?

- (A) Polymer
- (B) Nylon
- (C) Acrylic
- (D) Rayon

39. Complete the boxes and choose the correct option to which each box reflects.



- (A) Parts of a nucleus
- (B) Parts of an animal cell
- (C) Parts of a plant cell
- (D) Parts of a cell

40. Label P, Q, R and S in the given diagram of plant cell.

- (A) P-Nucleus, Q-Cytoplasm, R-Nucleolus, S-Chloroplast
- (B) P-Chloroplast, Q-Nucleus, R-Cytoplasm, S-Nucleolus
- (C) P-Cytoplasm, Q-Nucleolus, R-Chloroplast, S-Nucleus
- (D) P-Nucleolus, Q-Chloroplast, R-Cytoplasm, S-Nucleus

