

School Level Examination SLE 2024

SET: I

GRADE 8

SCIENCE

Subject Code:

3	0	1

Time: 1 hour

Total Questions: 40 Total Marks: 40

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 BALL-POINT PEN** only.
- You MUST record your answers on the ANSWER SHEET only.
- There are **40 MULTIPLE CHOICE QUESTIONS**. Each question carries one mark. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** darken 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.

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.	Reena introduces	Abhi as the son	of the brother	of her mother.	How is Reena	related to Abhi?
----	------------------	-----------------	----------------	----------------	--------------	------------------

(A) Cousin

(B) Aunt

(C) Nephew

- (D) Niece
- 2. Select the option that will fit in the place of (?).









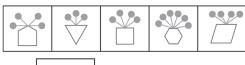


- 3. If 'Catch' is called 'Watch', 'Watch' is called 'Dragon', 'Dragon' is called 'Ribbon' and 'Ribbon' is called 'Cold', then what will you use to see the time?
 - (A) Ribbon

(B) Cold

(C) Dragon

- (D) Catch
- 4. Choose the figure which is different from the rest.



(A)





- (D)
- 5. A queue has 21 people. Yashika 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
- 6. Identify the category to which the word formed by arranging the given letters belongs.

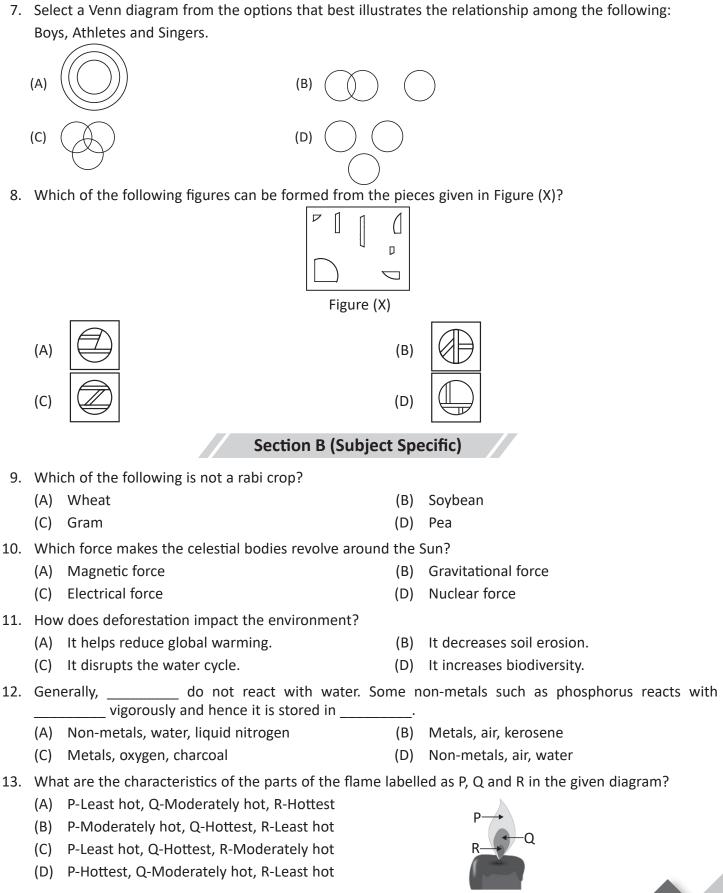
ATREFH

(A) Siblings

(B) Grandparents

(C) Cousins

(D) Parents



14.	4. A farmer noticed that his paddy fields were infested with pests, causing damage to the crops. method could the farmer use to control pests effectively without harming the environment?			
	(A) Using chemical pesticides	(B)	Biological pest control	
	(C) Fumigation	(D)	Using baits	
15.	is defined as physical transition that is acquired during adolescence.			
	(A) Metamorphosis	(B)	Menstruation	
	(C) Puberty	(D)	None of these	
16.	16. You stand at P on the side of the plane mirror as shown in the diagram. Can you see mirror? Can you see the images of the objects situated at points K and S?			
	(You are here) P	House K	Car S	
		Mirror		
	(A) I can see myself as well as images of the objects situated at points K and S.			
(B) I can see myself but not the images of any object.				
	(C) I can neither see myself nor images of an	•		
	(D) I cannot see myself but can see images o	f the object	s situated at points K and S.	
17.	In the oil wells, natural gas forms the topmost layer, followed by oil and finally water. This hap because		owed by oil and finally water. This happens	
	(A) Oil and gas are heavier than water	(B)	Oil and gas have strong forces of attraction	
	(C) Water is lighter than gas and oil	(D)	Water is heavier than oil and gas	
18.	Which of the following microorganisms produc	es antibioti	penicillin?	
	(A) Virus	(B)	Bacteria	
	(C) Fungi	(D)	Protozoa	
19.	Sucker is used to fix any object attached to it on any smooth surface such as sunshield on the window of a car. The sucker adheres to smooth surface due to			
	Glașs windov	_w Sunshie	ld	
	Sucker			
	(A) The glue present on its surface	(B)	Air pressure that acts on it	
	(C) Magnet fixed on it	(D)	None of these	
20.	Which synthetic fibre is known for its wool-like	e texture an	d is used as a substitute for wool in making	

(B) Polyester

(D) Rayon

(A) Nylon

(C) Acrylic

sweaters and blankets?

21. Match the statements in Column I with those in Column II and select the correct option.

	Column I	Column II	
p.	Chemical substances rich in specific nutrients	(i)	Manure
q.	Decomposed form of dead plants, animal feces and urine	(ii)	Weedicide
r.	Controls growth of undesirable plants	(iii)	Bacteria
S.	Responsible for the decomposition of dead matter in soil	(iv)	Fertiliser

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

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

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

- (D) p-iii, q-ii, r-i, s-iv
- 22. Read the following statements and select the correct option.

Statement 1: Oxygen is not necessary for combustion to occur.

Statement 2: Combustion is a chemical process involving the reaction of a fuel with oxygen.

- (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.
- 23. Which part of the neuron transmits signals to other neuron or to muscle?
 - (A) P

(B) Q

(C) R

(D) S

- 24. The full form of LED is ______.
 - (A) Light Electron Down

(B) Light Emitting Diode

(C) Low Electric Device

- (D) Low Electron Density
- 25. Which instrument is used to detect seismic waves?
 - (A) Richter scale

(B) Seismograph

(C) Electroscope

- (D) Polygraph
- 26. Ozone layer of the atmosphere can be damaged by CFCs used in . .
 - (A) Washing machines

(B) Microwaves

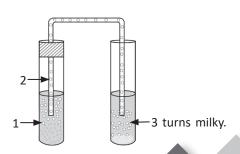
(C) Refrigerators

- (D) Televisions
- 27. A non-metallic element does not react with water but its oxide forms acidic solution when dissolved in water. The element is ______.
 - (A) Carbon

(B) Sodium

(C) Calcium

- (D) Zinc
- 28. Study the given diagram. Identify 1, 2 and 3 and name the process.
 - (A) 1-Water, 2-Air, 3-Liquid and process is carbonisation.
 - (B) 1-Yeast, 2-Carbon dioxide, 3-Water and process is fermentation.
 - (C) 1-Yeast + Sugar, 2-Carbon dioxide, 3-Lime water and process is fermentation.
 - (D) 1-Alcohol, 2-Yeast, 3-Lime water and process is respiration.



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. During a visit to a refinery, students observe various products being processed from crude oil. Which products are commonly obtained during refining of petroleum?
 - (A) Gasoline

(B) Diesel

(C) Natural gas

(D) Charcoal

- 30. Why do sportsmen use shoes with spikes?
 - (A) It increases friction between shoes and ground.
 - (B) It decreases friction between shoes and ground.
 - (C) It helps sportsmen to make better contact with ground.
 - (D) It reduces the grip of shoes with ground.
- 31. Which of the following are the consequences of man's interference with nature?
 - (A) Reappearance of extinct species

(B) Increase in natural resources

(C) Biological imbalance

- (D) Ozone layer depletion
- 32. Which of the following statements about plastics are true?
 - (A) Plastics are biodegradable materials.
 - (B) Plastics are bad conductors of electricity.
 - (C) Plastics do not affect the environment.
 - (D) Plastics can be recycled to make new products.
- 33. Which of the following statements are true for human diseases caused by microorganisms?

(A) Polio is caused by bacteria.

(B) Typhoid is caused by virus.

(C) Malaria is caused by protozoa.

(D) Tuberculosis is caused by bacteria.

Section C (Competency Enhancement)

34. To which group terylene fibre belongs?

Group	Material
Group-1	Wool, Silk
Group-2	Polyester, Nylon

(A) Both groups 1 and 2

(B) Group-1 only

(C) Either group-1 or group-2

(D) Group-2 only

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

Statement 1: Nucleus contains thread-like structures called chromosomes.

Statement 2: Chromosomes carry genes and help in inheritance or transfer of characters from the parents to the offspring.

- (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. To get the best yield from a piece of land, every farmer has to work hard and do the following agricultural activities in appropriate sequence. Arrange these activities in the correct sequence.
 - (i) Weeding
 - (iii) Sowing
 - (v) Storage
 - (vii) Irrigation
 - (A) $\forall i \rightarrow i \lor \rightarrow \forall i i \rightarrow i i \rightarrow i \rightarrow \forall i i i \rightarrow \lor$
 - (C) $iv \rightarrow iii \rightarrow vi \rightarrow i \rightarrow vii \rightarrow ii \rightarrow v \rightarrow viii$
- 37. Which of the following statements are correct?
 - (i) Sound is produced by vibrations.
 - (ii) Sound requires a medium for propagation.
 - (iii) Light and sound both require a medium for propagation.
 - (iv) Sound travels slower than light.
 - (A) (i) and (ii) only

(B) (i), (ii) and (iii) only

(ii) Harvesting

(vi) Manuring

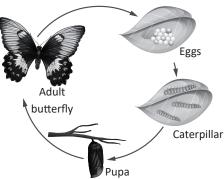
(viii) Winnowing

(iv) Soil Preparation

(B) $iv \rightarrow iii \rightarrow vi \rightarrow vii \rightarrow i \rightarrow ii \rightarrow viii \rightarrow v$ (D) $v \rightarrow ii \rightarrow i \rightarrow vii \rightarrow iii \rightarrow vi \rightarrow iv \rightarrow viii$

(C) (i) and (iv) only

- (D) (i), (ii) and (iv) only
- 38. The given diagram illustrates the life cycle of a butterfly. According to this diagram, which stage represents the larva stage?



- (A) Egg
- (C) Adult butterfly

- (B) Pupa
- (D) Caterpillar
- 39. Read Assertion and Reason and choose the correct option.

Assertion (A): Drip irrigation is more efficient than flood irrigation.

Reason (R): Drip irrigation delivers water directly to the roots of plants, minimising water loss due to evaporation.

- (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.
- 40. Which of the following statements about the living thing shown in the figure is correct?
 - (A) It is a microorganism.
 - (B) It causes dysentery and malaria in human beings.
 - (C) It is used in the preparation of curd, bread and cake.
 - (D) It can reproduce only inside the cells of the host organism.

