



School Level Examination
SLE 2022

GRADE
7

SCIENCE

Subject Code:

3	0	1
---	---	---

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 BALL PEN** 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** answer among the four possible 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.

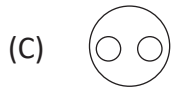
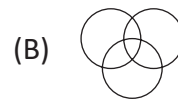
SCIENCE

Section A (Logical Reasoning)

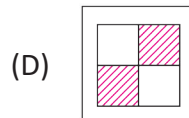
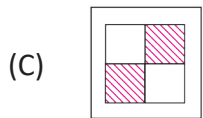
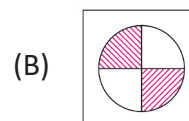
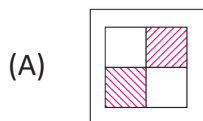
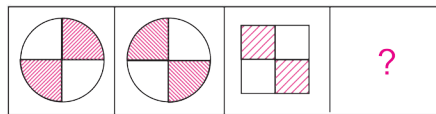
(This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

1. Which of the following diagrams indicates the best relation amongst the following?

Science, Physics, Chemistry



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



3. Find the missing term in the following series.

DCXW, HGTS, _____, POLK, TSHG

(A) KLOP

(B) LKOP

(C) KLPO

(D) LKPO

4. If SYSTEM is written as SYSMET and NEARER is written as AENRER, then FRACTION will be written as _____.

(A) CARFNOIT

(B) NOITFRAC

(C) CARFTION

(D) FRACNOIT

5. Find the odd one out.

(A) Door: bang

(B) Piano: play

(C) Drum: beat

(D) Rain: patter

6. Look carefully for the pattern, and then choose which pair of numbers comes next.

75 65 85 55 45 85 35

(A) 25 15

(B) 25 85

(C) 35 25

(D) 85 35

7. Which word does NOT belong to the others?
- (A) Two (B) Three
(C) Six (D) Eight

8. 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) 22 (B) 23
(C) 24 (D) 19

Section B (Subject Specific)

(This section contains 25 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

9. The most vital component required by plants to make proteins is _____ .
- (A) carbon dioxide (B) air
(C) oxygen (D) nitrogen
10. The largest gland in the human body is _____ .
- (A) pancreas (B) liver
(C) salivary (D) stomach
11. When you heat the tip of a knife, kept in the fire/flames, the entire knife become hot. The mode of transfer of heat in it is _____ .
- (A) conduction (B) convection
(C) radiation (D) gas flame
12. Our stomach has hydrochloric acid (HCl). Excess of it causes 'acidity' which is harmful. It can be neutralised by using _____ .
- (A) substances that neutralise acid (B) antacid
(C) milk of magnesia (D) All of these
13. The ash obtained after burning the magnesium ribbon when mixed with water forms a solution of magnesium hydroxide. How can you say that it is basic in nature?
- (A) Red litmus paper turns blue when dipped in it. (B) Blue litmus paper turns red when dipped in it.
(C) Colour remains same when dipped in it. (D) This doesn't happen.

14. Cyclone is due to the _____ .
 (A) formation of a very low pressure system with very high speed winds revolving around it
 (B) drop in pressure in the centre and rise of atmospheric air
 (C) rushing of air to centre of the storm
 (D) All of these
15. Loamy soil has _____ .
 (A) large particles (B) fine particles
 (C) both (A) and (B) in equal proportion (D) All of these
16. The amount of carbon dioxide in exhaled air is more than in inhaled air. The intake and output of this gas in percentage is _____ and _____ respectively.
 (A) 20%, 10% (B) 4.4%, 0.04%
 (C) 5%, 20% (D) 1.5%, 10%
17. The blood vessels that have thick elastic walls are _____ .
 (A) veins (B) capillaries
 (C) arteries (D) All of these
18. The statements (i) to (vii) describe the events that lead to maturation of a plant, in random order. Arrange them in correct order.
 (i) The seedling develops its leaves which start making food.
 (ii) More leaves develop as the plant grows.
 (iii) The root grows.
 (iv) The seedling obtains the food it needs from the cotyledons.
 (v) The seed leaves are no longer needed, they wither and fall off.
 (vi) The part that comes out next is the shoot.
 (vii) It grows downwards because of gravity.
 (A) (i)→(iii)→(ii)→(vii)→(vi)→(iv)→(v) (B) (iii)→(vii)→(vi)→(iv)→(i)→(v)→(ii)
 (C) (i)→(iii)→(vii)→(ii)→(v)→(vi)→(iv) (D) (iii)→(vii)→(vi)→(i)→(iv)→(v)→(ii)
19. Which of the following can NEVER be obtained from distance-time graph?
 (A) Time (B) Weight
 (C) Speed (D) Position
20. Electromagnets can be created by using wire coil around _____ .
 (A) an iron bar (B) metal
 (C) magnet (D) an electric fuse

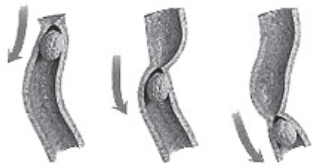
21. Huge populations of plants and animals are found in the tropical rainforests. Justify it.
- (A) Climate is best for their survival. (B) They are well protected in thick forests.
(C) They are safe there. (D) None of these

22. Find the correct match.

Example		Method of Reproduction
(A)	Ginger	Reproduction by root
(B)	Onion	Reproduction by leaf
(C)	Bryophyllum	Reproduction by leaf
(D)	Sweet Potato	Reproduction by stem

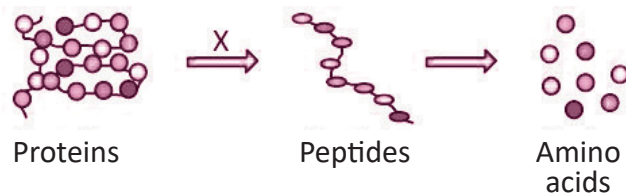
23. Which of the following statements are CORRECT?
- Cutting, layering and grafting are the methods of natural vegetative propagation.
 - Micro propagation is the propagation of plants by tissue culture technique.
 - Self-pollination and cross-pollination are the methods of sexual reproduction in plants.
 - Stamens are the male reproductive parts of the flower.
- (A) ii, iii and iv (B) i and ii
(C) ii and iii (D) None of these
24. Read the following statements and identify the INCORRECT statements.
- Sepals are the large, fragrant and brightly colored parts of the flower.
 - Carpels are the female reproductive parts of the flower.
 - Stamens are the male reproductive parts of the flower.
 - Petals are the green, outermost part of the flower.
- (A) ii and iii (B) iii and iv
(C) i and iv (D) None of these
25. Forests are called “lungs of Earth” because forests
- (A) are green (B) exchange gases
(C) maintain the balance of O₂ and CO₂ (D) None of these
26. Sludge extracted from Sewage treatment plat can be utilised in making
- (A) electricity (B) manure
(C) biogas (D) All of these

27. Identify and name the process shown in the picture.



- (A) Mixing contractions (B) Propulsion
(C) Retro peristalsis (D) Peristalsis

28. Identify and name the enzyme 'X' in the given process.



- (A) Pepsin (B) Lipase
(C) Trypsin (D) Erepsin

29. Identify the correct option.

- (A) Medulla oblongata acts as respiratory centre of the body.
(B) Hypothalamus acts as a respiratory centre of the body.
(C) Lungs act as a respiratory centre of the body.
(D) Trachea acts as a respiratory centre of the body.

30. _____ are the functional units of the lungs.

- (A) Bronchi (B) Alveoli
(C) Windpipe (D) Bronchioles

31. The type of lens present in human eye is _____ .

- (A) concave (B) biconcave
(C) biconvex (D) convex

32. Chemical equation for the photosynthesis can be shown as _____ .

- (A) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ (B) $12CO_2 + 12H_2O \rightarrow 2C_6H_{12}O_6 + 6O_2$
(C) $2C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ (D) $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

33. Bordeaux mixture is a/an _____ , which is a mixture of _____ , _____ and _____ .

- (A) fungicide, copper sulfate, lime and water
(B) bactericide, copper sulfate, lime and water
(C) insecticide, copper nitrate, lime and water
(D) fungicide, ferrous sulfate, lime and water

Section C (Competency Based)

(This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which TWO are correct.)

34. People obtain groundwater through _____ .
(A) taps (B) tube-wells
(C) handpumps (D) ponds
35. We can see seven colours of light in rainbow. Where else can we see them when light falls?
(A) Wall in dark room (B) Transparent mirror
(C) Oil films (D) Soap bubbles
36. Why should oils and fats NOT be released in drains?
(A) They can harden and block the pipes. (B) They provide greasing for drain pipes.
(C) They clog soil pores (in open drain). (D) They should be thrown in dustbin.
37. In some people, cholecystectomy is performed to remove the gallbladder. Which of the following functions of the digestive system will be affected by this?
(A) Conversion of fats to fatty acids (B) Conversion of proteins to amino acids
(C) Conversion of carbohydrates to (D) Fat emulsification
38. Appendicitis is a condition, which may require appendix to be removed surgically to treat the condition. However, it does not affect any major function of the digestive system and the person can lead a healthy life. This is because _____ .
(A) it is not an essential organ
(B) there is a substitute for this organ in human body
(C) it is a vestigial organ
(D) it is not a part of organs of digestive system
39. Read the following statements and choose the correct options:
(A) Upon inhalation, the diaphragm contracts and flattens.
(B) Upon inhalation, the diaphragm relaxes and returns to its dome like shape.
(C) Upon exhalation, the diaphragm contracts and flattens.
(D) Upon exhalation, the diaphragm relaxes and returns to its dome like shape.
40. Transportation of water and minerals in plants is _____ .
(A) from root to aerial part of the plant (B) from leaves to root of the plant
(C) unidirectional (D) bidirectional

