



QUESTIONS **50**



TOTAL MARKS **100**



DURATION **60 mins**

GRADE

8

Instruction for Students:

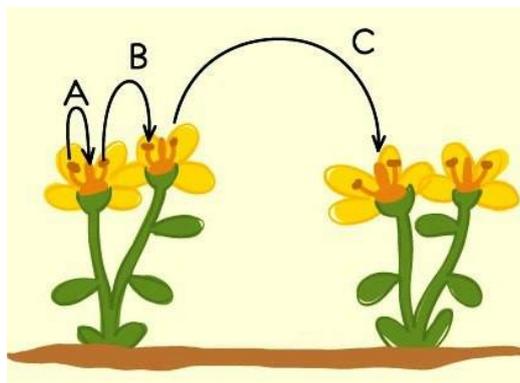
- Read the question carefully before answering.
- Each question has 4 options (A, B, C & D).
- **Grand Finale Marking System:-**
Each correct answer carries 2 marks.
For each unattempted question, 2 marks will be deducted.
For each wrong answer, 2.5 marks will be deducted.
- Grand Finale Result will be declared Online after 45 days from the exam date. To know your Result, login to www.neltas.com and use given Seat Number.

1. The process of loosening and turning the soil is called _____.
(A) irrigation (B) ploughing
(C) levelling (D) None of the above

2. In the case of diffusion molecules move from _____.
(A) higher concentration to lower concentration
(B) lower concentration to higher concentration
(C) higher concentration to lower concentration through a membrane
(D) None of the above

3. Which of the following diseases is caused by bacteria?
(A) Chickenpox (B) Dengue
(C) Tuberculosis (D) Polio

4. The given image represents three different conditions in which an insect is transferring pollen grains of unisexual and bisexual flowers for facilitating reproduction in them:



Which of the following condition/conditions would lead to the production of new varieties of plants?

- (A) Condition A (B) Condition B
(C) Condition C (D) Condition A and B

5. Which one of the following hormones converts excess glucose into glycogen?

- (A) Insulin (B) Glucagon
(C) Thyroxine (D) None of the above

6. In which of the following is binary fission?

- (A) Amoeba (B) Humans
(C) Frog (D) Hydra

7. Which of the following are necessary to prepare nylon?

- (A) Coal and Air (B) Coal and Water
(C) Coal, Air, Water (D) Air and Water

8. Coal was formed over a long period of time under high temperature and pressure conditions by the decomposition of dead vegetation.

This process of conversion of dead vegetation into coal is known as _____.

- (A) refining (B) condensation
(C) carbonization (D) sublimation

9. Which of the following pair is INCORRECT?

- (A) Combustible - Wood
(B) Non-combustible - Glass
(C) Non-combustible - Charcoal
(D) Combustible - Magnesium

10. Factors that affect the rate of a given chemical reaction are _____.

- (A) temperature of the reactants
(B) concentration of the reactants
(C) surface area of the reactants
(D) All of the above

11. The states of matter are _____.

- (A) atoms, molecules and ions
(B) electrons, protons and neutrons
(C) solids, liquids and gases
(D) None of the above

12. The number of valence electrons present in magnesium is _____.

- (A) 2 (B) 3
(C) 4 (D) 5

13. Which of the following is a carbon compound?

- (A) Lipids (B) Protein
(C) DNA (D) All of the above

14. This metal does not react even with steam.

- (A) Calcium (B) Iron
(C) Silver (D) Sodium

15. An oxide is acidic and has a pungent odour. It could be _____.
- (A) carbon dioxide (B) sulphur dioxide
(C) carbon monoxide (D) nitrogen dioxide

16. Observe the picture shown below:



Jill lifts water from the well by pulling the rope of a pulley system. Which force is applied by her to lift the load?

- (A) Electrical (B) Gravitational
(C) Magnetic (D) Muscular

17. The image shows how the word “AMBULANCE” is written in vehicles.

AMBULANCE

What is the reason behind writing the word in the manner?

- (A) To make the vehicle look different from rest on the road.
(B) The vehicles ahead can read it easily in the rear-view mirror.
(C) To make the vehicle gain extra speed while travelling.
(D) People standing in front of the vehicle can read it from distance.

18. Vivan has a solid block. Its mass is 16 g and the volume is 2 cm³. What is the density of the block?

- (A) 32 g/cm³ (B) 8 g/cm³
(C) 14 g/cm³ (D) 18 g/cm³

19. The unit of work is the joule. Which other physical quantity has the same unit?

- (A) Velocity (B) Energy
(C) Power (D) Force

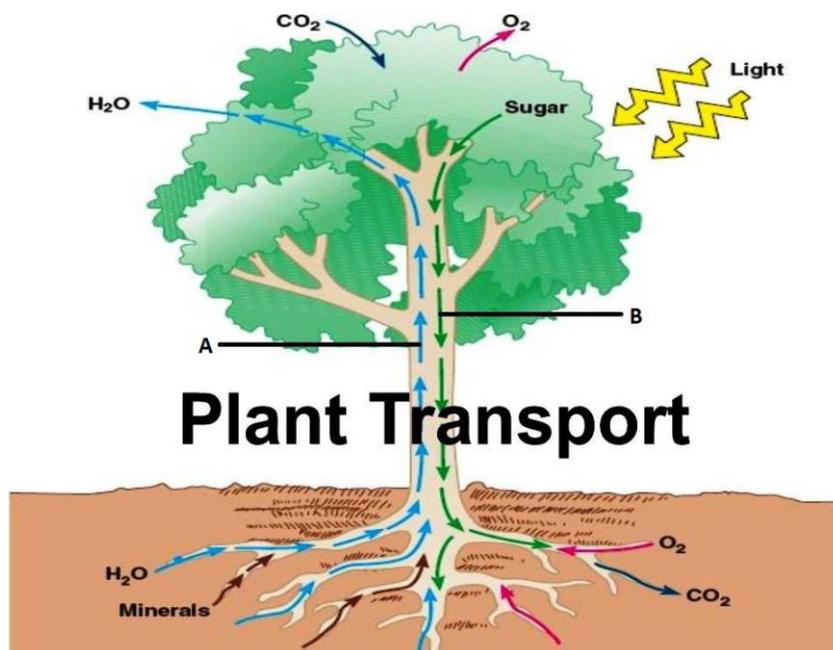
20. An electric current can produce _____.

- (A) chemical effect (B) heating effect
(C) magnetic effect (D) All of the above

21. What is the management and care of farm animals by humans for profit is known as?

- (A) Poultry farm (B) Pisciculture
(C) Animal husbandry (D) None of the above

22. Arrows in the image are indicating the direction of the movement of substances by two different vascular tissues. Some arrows are labelled as A and some are labelled as B.



Which of the following correctly describes the name and function of the two different vascular tissues?

- (A) Label A - Phloem - Transports Water, Label B - Xylem - Transports Food
- (B) Label A - Xylem - Transports Food, Label B - Phloem - Transports Water
- (C) Label A - Phloem - Transports Food, Label B - Xylem - Transports Water
- (D) Label A - Xylem - Transports Water, Label B - Phloem - Transports Food

23. Which of the following is a communicable disease?

- (A) Diabetes
- (B) Cancer
- (C) Alzheimer's
- (D) Covid-19

24. Kewal has a mango tree in his garden, which bears sweet mango every year. He wants to add more trees of this variety in its garden. Which life process of the plant will allow him to produce more such plants?

- (A) Transpiration
- (B) Reproduction
- (C) Growth
- (D) Respiration

25. Increased thyroxine production in humans results in _____.

- (A) dwarfism
- (B) cretinism
- (C) decreased metabolism
- (D) increased metabolism

26. Internal fertilisation takes place _____.

- (A) inside the body of a male
- (B) outside the body of a male
- (C) inside the body of a female
- (D) outside the body of a female

27. PVC is an example of _____.

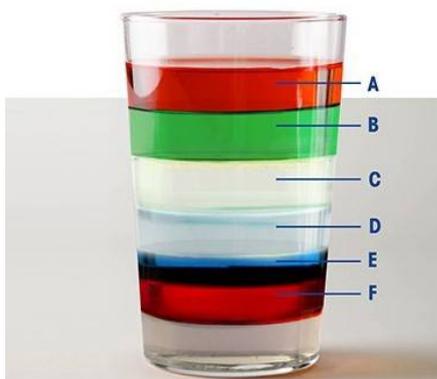
- (A) thermoplastic
- (B) plastic
- (C) thermosetting plastic
- (D) acrylic

28. Which of the following petroleum components is used as a solvent for dry cleaning?

- (A) Petrol
- (B) Kerosene
- (C) Diesel
- (D) Paraffin Wax

29. Ignition temperature is _____.
- (A) Lowest temperature required to catch fire
 - (B) Highest temperature required to fire
 - (C) Any temperature
 - (D) None of the above
-
30. The process in which heat is required to convert a liquid into the vapour state is known as _____.
- (A) latent heat of vaporisation
 - (B) evaporation
 - (C) melting
 - (D) condensation
-
31. The sum of the number of protons and the number of neutrons present in the nucleus of an atom is known as _____.
- (A) nuclear number
 - (B) electrons number
 - (C) atomic number
 - (D) mass number
-
32. Carbon can form innumerable compounds because _____.
- (A) it has four electrons in its outermost shell
 - (B) it combines with other elements to form covalent compounds
 - (C) carbon atoms can form long chains
 - (D) All of the above
-
33. What is a reaction in which a more reactive metal replaces a less reactive metal from its salt solution called?
- (A) Combination reaction
 - (B) Double displacement reaction
 - (C) Displacement reaction
 - (D) Addition reaction
-
34. Which acid is present in tamarind?
- (A) Citric acid
 - (B) Tartaric acid
 - (C) Tannic acid
 - (D) Lactic acid
-
35. What force will produce a pressure of 50,000 Pa on an area of 0.20 square m?
- (A) 5,000 N
 - (B) 10,000 N
 - (C) 15,000 N
 - (D) 20,000 N
-
36. Which of the following is glass coated with in order to convert it into a mirror?
- (A) Copper
 - (B) Aluminium
 - (C) Silver
 - (D) Gold

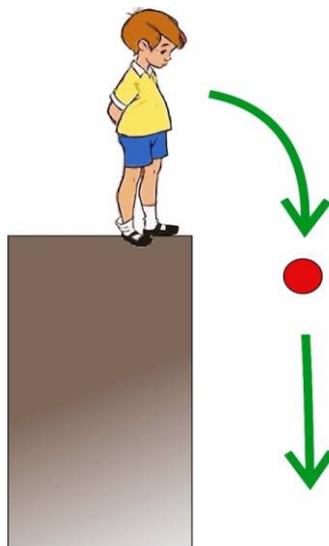
37. Observe the given figure carefully:



The correct order of the liquids from most dense to least dense is _____.

- (A) A, B, C, D (B) F, E, D, C
(C) C, D, E, F (D) None of the above

38. Which type of energy is possessed by the ball shown in this picture?



- (A) Kinetic (B) Potential
(C) Electromagnetic (D) Magnetic

39. An electrolyte is a _____.

- (A) solution
(B) liquid that conducts current
(C) metal
(D) None of the above

40. The characteristics of root-hairs that helps them to absorb water from the soil is _____.

- (A) their thin membrane
(B) their large surface area
(C) that they contain a solution of higher concentration than the surrounding water
(D) All of the above

41. Amar and Akbar were asked to grow different plants. Amar used the stem of a rose plant and buried it into the soil to grow a new plant. Akbar sowed a gram seed in the soil. After a few weeks, the growth of a rose plant and a gram plant was observed. What mode of reproduction took place in the plants chosen by Amar and Akbar?

- (A) Amar - Sexual reproduction; Akbar - Asexual reproduction
(B) Amar - Sexual reproduction; Akbar - Sexual reproduction
(C) Amar - Asexual reproduction; Akbar - Asexual reproduction
(D) Amar - Asexual reproduction; Akbar - Sexual reproduction

42. Cortisone hormone is secreted by _____.

- (A) Adrenal medulla (B) Adrenal cortex
(C) Thyroid gland (D) Pancreas

43. This part of the uterus prevents the mixing of the blood of the foetus with that of the mother.

- (A) Placenta (B) Umbilical cord
(C) Uterus wall (D) None of the above

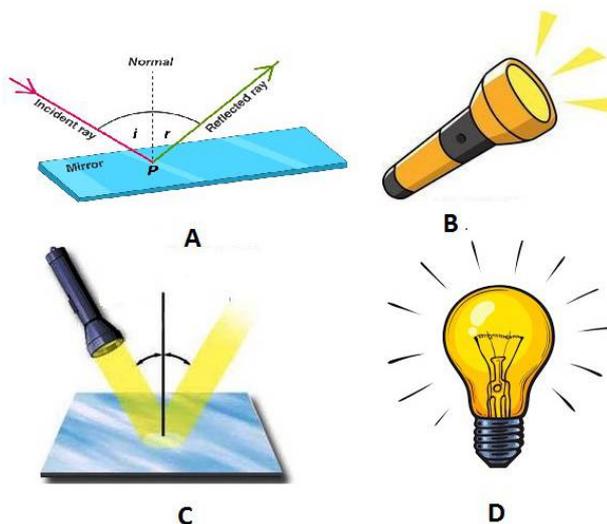
44. A piece of paper wrapped around an aluminium pipe does not catch fire easily. Which of the following reasons supports the above information?
- (A) Aluminium is non-combustible
 - (B) Paper is non-combustible
 - (C) Aluminium pipe does not attain its ignition temperature
 - (D) Paper wrapped around the pipe does not attain its ignition temperature

45. When sulphur reacts with oxygen, the oxide formed is _____ in nature.
- (A) neutral
 - (B) acidic
 - (C) basic
 - (D) None of the above

46. The chemical used to neutralize the basic nature of the soil is _____.
- (A) slaked lime
 - (B) quicklime
 - (C) baking soda
 - (D) organic matter

47. What is the strength of the force is expressed by?
- (A) Magnitude
 - (B) Weight
 - (C) Mass
 - (D) None of the above

48. The image below represents the path of light followed as it travels from different sources:



Which of these images represents the reflection of light?

- (A) B and D
 - (B) A and B
 - (C) B and C
 - (D) A and C
-
49. The type of energy stored in food is _____.
- (A) electrical energy
 - (B) chemical energy
 - (C) heat energy
 - (D) All of the above
-
50. In an electrolytic cell, the electrode which is connected to the positive terminal of the battery is called _____.
- (A) cation
 - (B) anion
 - (C) cathode
 - (D) anode

ANSWERS

1	2	3	4	5	6	7	8	9	10
B	A	C	C	A	A	C	C	C	D
11	12	13	14	15	16	17	18	19	20
C	A	D	C	D	D	B	B	B	D
21	22	23	24	25	26	27	28	29	30
C	D	D	B	D	C	A	A	A	A
31	32	33	34	35	36	37	38	39	40
D	D	C	B	B	C	B	A	B	D
41	42	43	44	45	46	47	48	49	50
D	B	A	D	B	D	A	D	B	D