

HALF-YEARLY EXAMINATION, 2020-21.

Class- VII

Subject- Science

Time-1.30 hrs.

Max. Marks-40

General Instructions:

- This question paper has 40 questions in all. All questions are compulsory.
- Each question carries one mark.
- Question no. 1-25 are MCQs

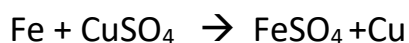
1. The process of transfer of heat in which the particles of the medium do not move to transfer heat from one end to the other is -----.

- a. Convection
- b. Conduction
- c. Radiation
- d. Both conduction and convection (1)

2. Write the name of the ion represented by SO_4^{2-}

- a. Sulphate
- b. Hydroxide
- c. acetate
- d. Phosphate (1)

3. What type of reaction is it?



- a. Combination
- b. decomposition
- c. neutralisation
- d. displacement (1)

4. The amount of heat produced in a wire depends on its ----.

- a. Length
- b. thickness
- c. material of the wire
- d. all of them. (1)

5. The geyser works on the principle of -----.
- a. heating effect of electric current
 - b. magnetic effect of electric current
 - c. chemical effect of electric current
 - d. either heating effect or chemical effect (1)
6. A strong magnetic effect is more likely to be observed with a _____.
- a. Current carrying straight wire
 - b. Current carrying circular coil of many turns wound on a soft iron core
 - c. Current carrying coil of many circular turns
 - d. Current carrying circular coil of many turns (1)
7. Which of the following devices use electromagnet?
- a. Electric bulb
 - b. Electric iron
 - c. Electric bell
 - d. Electric heater (1)
8. The amount of water present as ground water of the earth is nearly
- a. 2.7%
 - b. 0.7%
 - c. 97%
 - d. 2% (1)
9. Which of the following is suitable for better water management of water resources?
- a. Rain water harvesting
 - b. Do not throw chemicals to drain
 - c. Not to throw cooking oil into drains
 - d. Not to throw polythene bags to drain (1)

10. The upper layer of ground water is called -----.
- a. Sewage
 - b. Potable water
 - c. Water table
 - d. Salty water
- (1)
11. The device used for detecting charge (positive or negative) on an object is called - -----.
- a. Stethoscope
 - b. Telescope
 - c. electroscope
 - d. Kaleidoscope
- (1)
12. Which one of the following cannot be charged by friction, if held by hand?
- a. A plastic scale
 - b. a copper rod
 - c. an inflated balloon
 - d. a woollen cloth
- (1)
13. During charging by induction, it is _____.
- a. both charged object as well as the earth share their charges with the object to be charged
 - b. Only the charged object that shares its charges, with the object to be charged.
 - c. Only the earth that shares its charges, with the object to be charged
 - d. The uncharged object that is able to produce charges on itself.
- (1)
14. Which among the following does not define the process of photosynthesis?
- a. converts light energy into chemical energy
 - b. reintroduces oxygen into the atmosphere.
 - c. carbon dioxide, water are used
 - d. glucose and starch are used
- (1)
15. What is the meaning of heterotrophs?
- (a) Self nourishment
 - (b) make nutritive organic substances

(c) rely on organic substances for nourishment.

(d) Using materials from inorganic sources. (1)

16. An organism that fixes nitrogen in the soil is -----.

- a. Mushroom
- b. Mucor
- c. Rhizobium
- d. Cuscuta (1)

17. Water reaches great heights in the trees because of suction pull caused by _____.

- a. respiration
- b. osmosis
- c. transpiration
- d. photosynthesis (1)

18. Where is food completely digested?

- a. stomach
- b. small intestine
- c. large intestine
- d. liver (1)

19. What are the end products of digestion of carbohydrate?

- a. glucose
- b. fructose
- c. amino acids
- d. fatty acid and glycerol (1)

20. Choose the correct order of the scientific terms that describe the process of nutrition in ruminants.

- a. Swallowing → partial digestion → chewing of cud → complete digestion
- b. Chewing of cud → swallowing → partial digestion → complete digestion

- c. Chewing of cud → swallowing → mixing with digestive juices → digestion
 - d. Swallowing → chewing and mixing → partial digestion → complete digestion
- (1)

21. Choose a word for the statement: "Transportation of absorbed food in different parts of body and their utilization".

- a. Digestion
 - b. Absorption
 - c. mastication
 - d. Assimilation
- (1)

22. Which is not the function of the heart?

- a. The right auricle and right ventricle receive blood rich in oxygen.
 - b. deoxygenated blood is collected from all parts through vena cava.
 - c. The collected deoxygenated blood is pumped to the lungs for the purification.
 - d. the purified blood is pumped to all parts of body through aorta.
- (1)

23. During strenuous physical exercise, we get cramps in the legs due to the accumulation of

- a. formic acid
 - b. ascorbic acid
 - c. alcohol
 - d. lactic acid
- (1)

24. Small organisms like amoeba and hydra respire through the process of _____.

- a. suction pressure
 - b. diffusion
 - c. transpiration
 - d. amoebiasis
- (1)

25. Which is not correct for cellular respiration?

- a. cells in living organisms undergo cellular respiration.
- b. The oxygen reacts with the glucose
- c. food is broken down inside the cells which results in the release of energy.
- d. results in the absorption of carbon dioxide, water and energy. (1)
26. What is the range of temperature that can be measured by a doctor's thermometer?
(1)
27. Write the products of the chemical reaction between hydrochloric acid and potassium hydroxide (in words). (1)
28. What is the touching of the live wire and neutral wire, due to faulty insulation called? (1)
29. State suitable term/words for the network of pipes to carry sewage from its source to waste water treatment plant. (1)
30. There is a sudden flow of very large amount of charges through some parts of air during lightning. What this phenomenon is called? (1)
31. what is the normal range of breathing rate per minute in an average adult person at rest? (1)
32. Name two substances that enrich the nutrients in the soil? (write any one) (1)
33. Ruminants also have a spacious bag-like structure, between their small intestine and the large intestine that help in further digestion of the cellulose of the food. (1)
34. what are the tiny filtering units of the kidney called? (1)
35. Name the vascular tissue for the transport of food in plants. (1)
36. The process of charging an uncharged object by direct physical contact with a charged object is called _____ . (1)
37. The combination of two or more cells in series is called _____. (1)
38. **Choose the correct option.**

Assertion (A): Radiation is the fastest mode of transmission of heat
Reason (R): Conduction and convection require a medium for transmission of heat whereas heat radiations can travel through vacuum.

- 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 not the correct explanation of A

- c. A is correct and R is incorrect
- d. both A and R are incorrect

Radiation is the fastest mode of transmission of heat It does not require any medium as, it transmits heat in the form of electromagnetic waves. But conduction and convection required a material medium for transmission of heat so A and R are correct but R is not the correct explanation of A

(1)

39. Name the certain type of cells that help in destruction of disease-causing microorganisms. (1)

40. Assertion A: The respiration in plants occurs as exchange of gases through tiny pores on leaves.

Reason R: The tiny pores involved in respiration of plants are called stomata.

- a. If both the A and R are true and R is a correct explanation of A.
- b. If both the A and R are true but the R is not a correct explanation of the assertion
- c. If the A is true but the R is false
- d. If the A is false but R is true (1)
