Umayma Bharmal – MBA – B.Ed. (Accountancy)

Std X
Time – 2 hours

Science & Technology

16th November, 2024 Marks - [60]

Section A

State whether the following statements are true or false:

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- 1. The dinosaurs belongs to class Reptila
- **2.** Adrenaline harmone is responsible for regulating the blood sugar level.
- 3. The cerebellum helps in maintaining posture and balance of the body.

Answer the following question in a word or two:

- **4.** What are called decomposers?
- 5. Explain the term 'Meiosis'.
- **6.** Which organ of human body stores 'bile'?
- 7. Mention the full form of CFC
- **8.** What are the components of peripheral nervous system?

Fill in the blanks by selecting the correct alternative from those given in the bracket.

- **9.** animal can change its sex.
- **10.** The vegetative propagation by leaf is found in
- 11. plant shows movement in response of touch.
- **12.** hormone is responsible for faster heartbeats.
- 13. controls reflex action.

Choose the correct option from those given below each question.

- **14.** Which of the following brings oxygenated blood into left atrium in heart?
 - A. Superior vena cava
- B. Inferior vena cava
- C. Pulmonary artery
- D. Pulmonary vein
- **15.** How many pair of chromosomes are found in human?
 - A. 32 pairs
- B. 46 pairs
- C. 26 pairs
- D. 23 pairs
- **16.** Who was the first scientist to perform series of experiments to study acquired and inherited traits?
 - A. Sutton
- B. Mendel
- C. Wattson
- D. Khorana

17. Match the Following Pairs correctly

Section 'A'	Section 'B'
1. Fission	a. Spirogyra
2. Fragmentation	b. Paramecium
3. Regeneration	c. Mucor
4. Spore-formation	d. Planeria

- A. (1-b), (2-a), (3-d), (4-c)
- C. (1-b), (2-c), (3-d), (4-a)
- B. (1-c), (2-d), (3-a), (4-b)
- D. (1-d), (2-c), (3-b), (4-a)

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Section B

Answer the following questions briefly:

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- **18.** How are fats digested in our bodies? Where does this process take place?
- **19.** How does binary fission differ from multiple fission?
- **20.** What is Ozone and how does it affect any ecosystem?
- 21. Explain: (a) Reduce and (b) Recycle aspects to save environment.
- 22. Write a short note: Food chain.

Section C

Answer the following questions in short:

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- **23.** Represent the table to show the name of any three endocrine glands of human, name of hormone secreted from it and its functions.
- **24.** What are the qualities of an ideal source of energy?
- **25.** How is the sex of child determined in human beings? Explain: How equal genetic contribution of male and female parents is ensured in progeny.
- **26.** How are the areas of study evolution and classification interlinked?
- **27.** Describe human brain with functions of its different parts.
- 28. What are three basic points of difference between asexual production and sexual production?

Section D

Answer the following questions in detail:

15

29. Describe the experiment, with diagram, showing that carbon dioxide gas is necessary for photosynthesis.

OR

What are life processes? Explain some important processes which are needed for living beings.

- **30.** Draw a labelled diagram of internal structure of human heart and explain the blood circulation in human heart.
- **31.** Explain human excretory system with diagram.

OR

Explain human respiratory system with diagram.