Std X Science Paper-II Marks 40

Instructions:

- 1. All questions are compulsory.
- 2. Draw scientifically, technically correct labelled diagrams wherever necessary.
- 3. Start writing each main question on a new page.
- 4. Figures to the right indicate full marks.
- 5. For each MCQ (i.e Q. No. 1-B) evaluation would be done for first attempt only.
- 6. For each MCQ correct answer must be written along with its alphabet. E.g. i) (a)....., ii) (b)....., iii) (c)......

Q1. A. 1) Fill in the blanks: -	2
I. Our muscle cells perform type of respiration during exercise.II. Laughter club is a remedy to drive away	
2) Complete the corelation: - I) Insulin: Diabetes :: Interleukin:	1
3) Give names of: -	2
Any two sexual diseases.	2
B) Choose the correct alternative and rewrite the statements: -	5
1) Which out of the following addiction is the most harmful for the respiratory systems? a) Smoking b) Chewing Pan c) Chewing Gutkha d) Alcohol Consumption	?
2) Bot is included in which class?	

- 2) Bat is included in which class?
- a) Amphibian b) Reptilia c) Aves d) Mammalia
- 3) Process of coagulation of milk proteins occur due to lactic acid.
- a) Fermentation b) Pasteurisation c) Coagulation d) Enzymes
- 4) Vestigial organ _____ present in human body is proof of evolution.
- a) Wisdom tooth b) Premolar tooth c) Incisors d) Canines
- 5) Which phase shows a notch in the cytoplasm in between the central regions?
- a) Prophase b) Metaphase c) Anaphase d) Cytokinesis

Q2) Answer the following (Any Five): -

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- Distinguish between
 Thermal electricity generation and solar electricity generation
- 2) Though tortoise live on land as well as in water it cannot be included in class- Amphibia. Give scientific reasons.
- 3) Write four distinguishing characteristics of phylum Echinodermata.
- 4) Observe the diagram given below and answer the given questions:



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- i) Label the food chain as per the tropic levels.
- ii) If number of frogs in the above food chain is suddenly reduced, then what can be the different effects on the food chain?
- 5) Define:
 - i) Heredity
 - ii) Evolution
- 6) Draw a neat, labelled diagram of binary fission in Paramecium.
- 7) What are the advantages and limitations of solar energy?

Q3) Answer the following questions (Any five)

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- 1) State the characteristics of class Pisces. Give two examples.
- 2) How does the bread become spongy?
- 3) What will you do? Child of your neighbour is addicted to tobacco chewing.
- 4) What precautions and care will you take in the following disaster?



- 5) Sketch label and classify: Hydra
- 6) What are the objectives of disaster management?
- 7) Write a short note on Darwin's theory of natural selection.

Q4) Attempt any one of the following: -

5

- 1) Describe the structure of a flower with the help of a neat, labelled diagram
- 2) Which cycles are operated in environment? What is their importance?
