

**Q.1 A) Find the odd man out** 5

- 1) Alcohol, Vinegar, Pyruvic acid Lactic acid.
- 2) Vas eferens, vas deferens , prostate gland, epididymis.
- 3) Edible oil, crude oil, LPG, CNG.
- 4) Diabetese, Anaemia, Leukaemia, Thalassemia.
- 5) Green revolution, White revolution, Industrial revolution, Blue revolution.

**B) Write whether the following statements are True or False.** 5

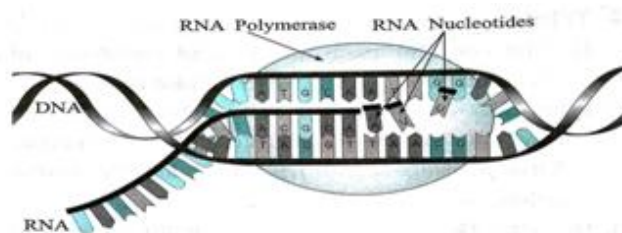
- 1) Paddy fields are frequently attacked by frogs.
- 2) Prokaryotes show fission which occurs by mitosis.
- 3) Excess of ATP molecules obtained from the proteins are not stored in the body.
- 4) Changes acquired during the life time are transferred to the next generation.
- 5) During favorable conditions multiple fission is performed by amoeba

**Q.2 Answer the following questions. (Any Five)** 10

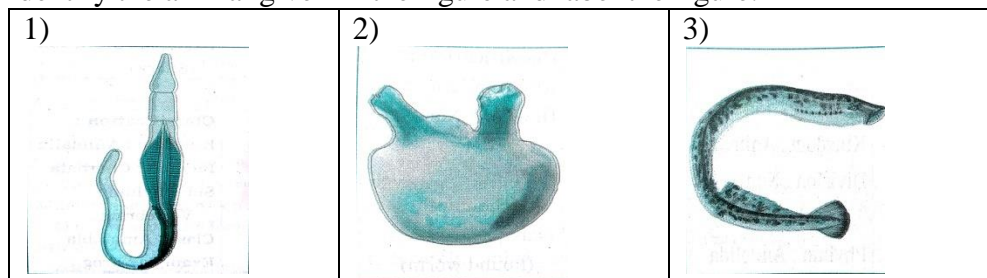
- 1) Write note on: Biodiversity.
- 2) Define heredity. Explain the mechanism of hereditary changes.
- 3) What is meant by green energy? Which energy sources can be called green energy sources and why? Give examples
- 4) Which is the energy currency of the cell? Explain it in detail.
- 5) Explain the importance of exercise, yoga and meditation.
- 6) How does reproduction take place in fungus?
- 7) Which are the objectives of disaster management?

**Q.3 Answer the following questions. (Any Five)** 15

- 1) Observe the figure and answer the questions.
  - i) What is the sequence of nucleotides present on one strand of the DNA?
  - ii) According to the above sequence on DNA, what will be transcribed sequence on the m-RNA molecule?
  - iii) Which enzyme is taking part in the above process of transcription?



- 2) In which way is science of heredity useful these days?
- 3) Identify the animal given in the figure and label the figure:

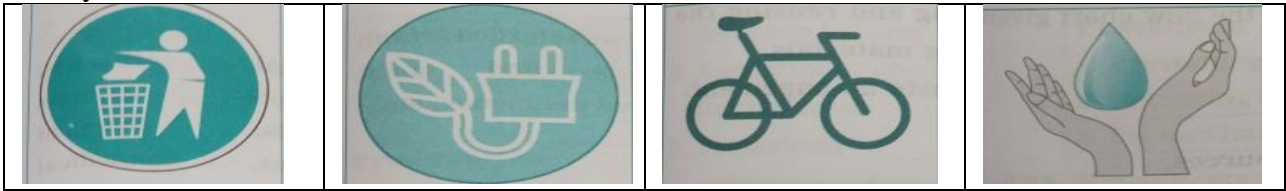


- 4) With the help of suitable diagrams, explain the five stages of prophase-I of meiosis.
- 5) Which are the reasons for endangering many species of plants and animals? How can we save that diversity?
- 6) Give difference between: Aves and Mammals

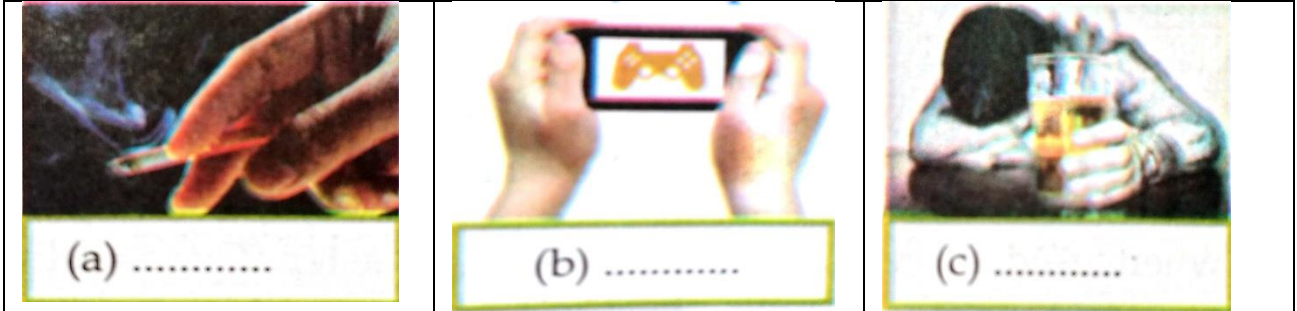
7) Explain why the 'Importance of outdoor games is unparalleled.'

**Q.4 Answer the following Questions (Any One)**

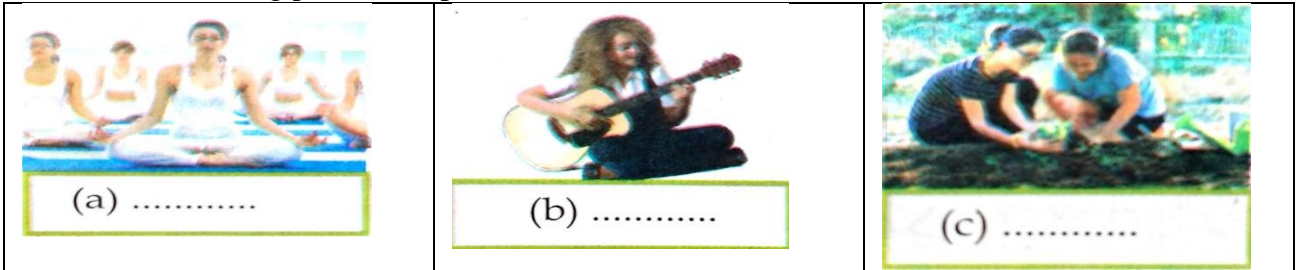
1) Give the meaning of given symbols in relation to environment conservation. Make a list of other such symbols.



2) Mention the disorders caused by the pictures shown.



How do the following pictures help.



\*This question paper is for practice purpose only.