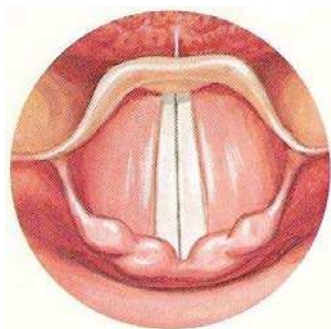


- Q6 Answer the following: (1+2+2)
- a) Identify the given figure and write its name.



- b) How is sound produced in human beings?
- c) How do bats find their way?

Section – B (Chemistry)

- Q1. Choose and write the correct option: (1×4 = 4)
- a) Acid rain is caused by oxides of
- | | |
|------------------------|--------------------------|
| (i) Sulphur, Nitrogen | (ii) Sulphur, Carbon |
| (iii) Carbon, Nitrogen | (iv) Phosphorous, Carbon |
- b) The force that is responsible for the rotation of planets around the sun
- | | |
|---------------------------|--------------------------|
| (i) Magnetic force | (ii) Nuclear force |
| (iii) Gravitational force | (iv) Electrostatic force |
- c) The brightest planet that is visible to the naked eye is
- | | |
|-------------|--------------|
| (i) Jupiter | (ii) Venus |
| (iii) Mars | (iv) Neptune |
- d) Which of the following affect(s) the ozone layer?
- | | |
|--------------------|-----------|
| (i) Carbon dioxide | (ii) CFCs |
| (iii) Soot | (iv) Dust |
- Q2 Give the one word / name / example (1×4 = 4)
- a) Name the process of slow conversion of wood to coal
- b) The decreasing size of the moon from a full moon to new moon
- c) This planet is also called red planet
- d) Water fit for drinking
- Q3 Give reasons: (2×2 = 4)
- a) Petrol does not catch fire on its own at room temperature
- b) A paper cup containing water does not burn when placed over a flame
- Q4 Answer the following questions: (2×2 = 4)
- a) Explain how carbon dioxide is able to control fires.
- b) Explain 'Greenhouse effect'.

- Q5 Answer the following questions (3×3 = 9)
- a) Mention three advantages of gaseous fuels over solid or liquid fuels.
 - b) Why is earth considered a unique planet of the solar system?
 - c) What is water pollution? How do industries cause water pollution? Name two diseases caused by pollution of water.

Q6. Long Answer Questions:

- a) What is light year? Why is the distance of stars from the earth measured in light years and not in kilometres? (3)
- b) Calculate the value of one light year in kilometres. (2)

Section – C (Biology)

Q.1 Choose the correct option (1×4= 4)

- i) _____ is a rabi crop.
 - (a) wheat
 - (b) maize
 - (c) cotton
 - (d) paddy
- ii) Which is the modern system of irrigation?
 - a) dhekli
 - b) rahat
 - c) sprinkler
 - d) moat
- iii) Which of the following micro-organism has the ability to fix nitrogen?
 - a) Virus
 - b) Euglena
 - c) Rhizobium
 - d) Amoeba
- iv) Malaria is caused by
 - a) virus
 - b) bacteria
 - c) protozoa
 - d) bacteria

Q.2 Name/Give one word/Example (1×4= 4)

- a) Carrier of parasite of dengue.
- b) A microorganism that forms a link between living and nonliving.
- c) Chemicals used to control weeds.
- d) Organic substance obtained from the decomposition of plants and animals.

Q.3 Give reason (2×2= 4)

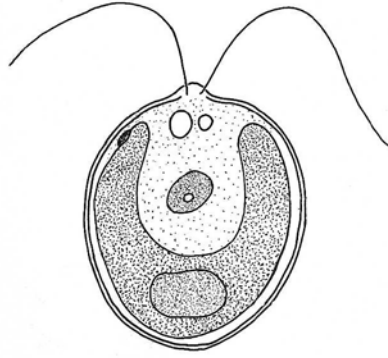
- a) Salt is a preservative.
- b) Microorganisms can render food harmful.

Q.4 Answer the following (2×2= 4)

- a) Why should the grains be dried before storage?
- b) Explain how does a vaccine work.

Q.5 a) i) Name the two diseases caused in animals by microorganisms. (3×3= 9)
ii) Who discovered the vaccine for small pox?

- b) Observe the diagram and answer the questions given below:



- i) Identify the microorganism and name the major group under which it is placed.
- ii) Label part a and b.
- c) Explain the drip system of irrigation. Draw a diagram to support your answer.
- Q6 i) Write the mode of transmission and causative organism of the following diseases
- a) Rust of wheat
- b) Measles
- c) Polio
- ii) Draw a neat diagram of the algae that has ribbon shaped chloroplast. Label any two parts in it. (3+2=5)