

SYLLABUS : REPRODUCTION, AGE OF ADOLESCENCE, STARS AND SOLAR SYSTEM, POLLUTION, SOUND, CROP PRODUCTION, CONSERVATION OF PLANTS AND ANIMALS, SOME NATURAL PHENOMENA, CELL.

GENERAL INSTRUCTIONS : Draw Diagrams with Pencils.

- All questions are compulsory. **Maximum Marks are 60.**
- The question paper consists of 25 Questions.
- **Section – A** : Question 1 to 10 are 1 mark each.
- **Section – B** : Question 11 to 20 are 3 marks each.
- **Section – C** : Question 21 to 24 are 5 marks each.

SECTION A : (1 × 10 = 10)

1. Yeast reproduces by
(a) sexual reproduction (b) asexual reproduction
(c) parthenogenesis (d) none of these
2. Breaking of the egg shell and the chick coming out is known as
(a) hatching (b) incubation (c) fertilisation (d) metamorphosis
3. One ovum is released in females once in every
(a) 28 days (b) 38 days (c) 18 days (d) 08 days
4. The largest planet in the solar system is
(a) Neptune (b) Earth (c) Jupiter (d) Uranus
5. Ozone layer in the atmosphere depleted by
(a) LPG (b) CFC (c) CNG (d) Acid rain
6. The gas responsible for global warming is
(a) carbon monoxide (b) Carbon dioxide
(c) Nitrogen dioxide (d) Sulphur dioxide
7. Hertz is the unit of
(a) Amplitude (b) Frequency (c) Pitch (d) Wavelength
8. Chemicals which kill weeds are known as
(a) fertilisers (b) pesticides (c) weedicides (d) none of these
9. Which of the following is not unicellular ?
(a) Euglena (b) Paramecium (c) Chicken (d) Amoeba
10. Migration of bird takes place because
(a) they like to travel (b) to find abundant food
(c) to meet other birds (d) none of these

SECTION B : (3 × 10 = 30)

11. What is a seed drill?
12. How can the cutting of trees affect the ecological balance of a particular area?
13. If you boil a hen's egg, what changes do you observe?
14. What is the function of
(a) Scrotal sac (b) Vas deferens (c) Penis in human beings?

15. Calculate the full height of Esha 8 years old and 110 cm tall at the end of the growth period. (% of full height at the age = 77%)
16. Draw a labelled diagram showing the structure of the human ear?
17. Give a simple activity to show that vibrating object produces sound.
18. (a) Name the star nearest to the earth (except sun)
(b) In how many days this satellite completes one revolution around Earth?
(c) In how many days this satellite revolves around its own axis.
19. Suggest three measures to protect ourselves from lightning.
20. Fill in the blanks:
 - (a) _____ is a term used for planting more trees.
 - (b) Water pollution can be recognised by _____ taste and _____ order.
 - (c) Earth's temperature is increasing due to _____.
 - (d) Potable water must be free from _____ and _____.
 - (e) The microbes in the water can be killed by _____.
 - (f) _____ and _____ gases dissolve in water to form acid rain.
 - (g) Domestic sewage promotes the growth of _____ and _____ which use up most of oxygen.
 - (h) The purpose of purification is to remove _____ impurities.

SECTION C : (5 × 4 = 20)

21. At an individual level, how can you help reduce air pollution?
22. (a) name a property of sound which is
 - (i) similar to the property of light.
 - (ii) different from that of light.(b) why do some people have hearing impairment? How do they communicate with others?
23. Write notes on:
 - (a) Adam's apple
 - (b) Secondary sexual characters
 - (c) Sex determination in the unborn baby.
24. Draw a labelled diagram to show the male reproductive system and female reproductive system in human beings.