

Class XII Biology Sample Paper Bihar Board

(General Instructions) :

All Questions are compulsory

There is *No negative marking* for any wrong answer.

Questions are in two sections

Instruction : Q. No. 1 to 22 : In the following questions there are only one correct answer.

You have to choose that correct answer.

1- Who proposed the term protista for unicellular organism.

- (a) Lister
- (b) Pasteur
- (c) Haeckel
- (d) Koch

2- Organism having characteristic of both plant and animal

- (a) Paramecium
- (b) Euglena
- (c) Mycoplasma
- (d) Bacteria

3- Contractile vacuole of Protozoa takes part in

- (a) Reproduction
- (b) Locomotion
- (c) Digestion
- (d) Osmoregulation

4- Fruit of Mustard is

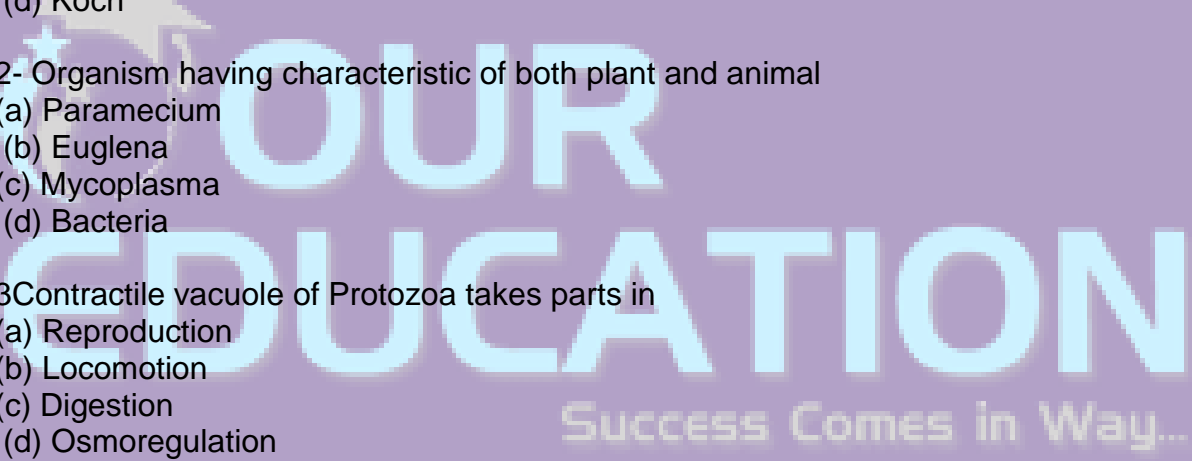
- (a) Siliqua
- (b) Cypsela
- (c) Nut
- (d) Achene

5- Corn is modification of

- (a) Root
- (b) Bud
- (c) Stem
- (d) Leaf.

6- The term Nucleus was coined by

- (a) Brown
- (b) Fontana
- (c) Bowman
- (d) Golgi.



7- Cilia and flagella are composed of

- (a) Microtubules
- (b) Microfilaments
- (c) Microfibrils
- (d) Microvilli

8- Movement of Water through semipermeable membrane produces.

- (a) Wall pressure
- (b) Suction pressure
- (c) Osmotic pressure
- (d) Turgor pressure.

9- Weight of human liver is

- (a) 6.0 Kg.
- (b) 5.0 Kg.
- (c) 3 : 0 Kg.
- (d) 1.5 Kg.

10-Amount of Saliva secreted per day is–

- (a) 330 ml
- (b) 550 ml
- (c) 750 ml
- (d) 1100ml

Instructions : Q. No. 11 to 15 In the following questions there are two statements. Statement-I follows Statement-II. You have to go through these statements and mark your answer from the given questions.

- (a) If both the statements are true & statement II is the correct explanation of Statement - I.
- (b) If both the statements are true & statement - II is not correct explanation of statement - I.
- (c) If statement - I is true and statement - II is false.
- (d) If statement - I is false & statement - II is true.

Statement I–When the ambient temp is high and soils contain excess of water, the plants tend to lose water, in the form of droplets from lenticels.

Statement II– Root pressure regulates the rate of loss of water from lenticels.

Statement I–Exchange of genetic material occurs during meiosis.

Statement II–There is a chiasma formation in meiosis.

Statement I–Frequency of crossing over in a chromosome is directly proportional to the distance between two genes.

Statement II–Crossing over at a point on a chromosome discourages the occurrence of another crossing over in the vicinity.

Statement I– Bacteria parasitize animals and cause disease.

Statement II—Therefore, plants do not have bacterial disease.

Statement I—The Colour of flowers in Bougainvillia is due to the coloured bracts.

Statement II—The flowers of Bougainvillia are largest among the plant Kingdom.

Instructions : Question No. 16 to 18 In the following question there may be more than one correct answer. You have to mark all the correct options.

16-Which of the following are primary sex organs.

- (a) Scrotum
- (b) Vagina
- (c) Testis
- (d) Ovary

17-Factors important in the formation of new species are :-

- (a) Isolation
- (b) Competition
- (c) Mutation
- (d) Continuous variation.

18-Immune response are carried out by -

- (a) Lymphocytes
- (b) Adipocytes
- (c) Immunoglobuline
- (d) Melanocytes.

Instructions : Question No. 19 to 22 In the following questions there are two columns the columns - I contains 4 questions, you have to watch the correct options.

19- (Copulation chamber in female)

20-(Monopause) (b)(Site of implantation of Zygote)

21-(Fellopian tube) (c) (Cessation of menstrual cycle.)

22- (Vagina) (d)(Site of fertibization in female.)

bisexuality, homogamy & cleistogamy Cleistogamous Dicliny, Self - Sterility, dichogamy, heterostyly & Herkogamy, Stigma

(Anemophily)(Hydrophily) (entomophily, (orhithophily).(cheiropterophily)

Pollination is defined as the process of transfer of pollen grains from an anther to the stigma

of the same flower or of different flower. If the pollen grains are transferred from an anther to the stigma of the same flower, the process is called self-pollination or autogamy. If these are

transferred to the stigma of a flower on different plant it is called as cross-pollination or allogamy. For self pollination, bisexuality, homogamy & cleistogamy adoption are found. In cleistogamous flower, the anthers mature and burst liberating their pollen grains in a closed flower. The contrivances for cross pollination are dicliny, self-

sterility, dichogamy, heterostyly and herkogamy. The agencies which transfer pollen - grains from anther to stigma are as follows. wind (Anemophily), water (Hydrophily), insects (entomophily), birds (ornithophily) and bats (cheiropterophily)

23- In *Salvia*, pollinating agents are insects, known as

- (a) Anemophily
- (b) Hydrophilly
- (c) Zoophily
- (d) Entomophily

24- Some flowers which never open are called as :

- (a) Protrandrous
- (b) Unisexual
- (c) Cleistogamous
- (d) Chromogamous

25- The transfer of pollen grains from anther to stigma is known as

- (a) dichogamy (b) fertilization (c) Syngamy (d) Pollination

SECTION-II

(NON-OBJECTIVE QUESTIONS) [42 Mark

(Short Answer questions) :

$$11 \times 2 = 22$$

Instruction : Q. No. 1 to 11 are Short Answer Type Questions. Every question is of 2 marks each.

- 1- (Describe the various forms of bacteria.)
- 2- (How would you distinguish monocots from dicots.)
- 3- (Differentiate between tap root & adventitious root)
- 4 (What is primary meristem.)
- 5- (what is xylem.)
- 6- (What are radial bundles.)
- 7- (Define albuminous cell.)
- 8 (What is open Vascular bundle)
- 9- Name the tissue which connect muscle to a bone)
- 10- (Write notes on a locomotion in Earthworm).
- 11- (Describe the function of Nucleus.)

(Long Answer questions) :

4 × 5 = 20

Instruction : Q. No. 12-15 are of Long Answer Type Question. Every question are of 5 marks each.

12- (Describe differences between Prokaryotic & Eukaryotic Cells.)

Or, (Describe difference between white and red muscle.)

13-(Write a note on Microfilaments.)

Or, Describe chloroplast)

14-(Describe prophase of meiosis.)

Or, (Describe mitosis.)

15-(Write a note on photosynthetic pigments.)

Or, (Write a note on micro tubules.)



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