

Time allowed : 2 hours

Maximum Marks : 35

General Instructions:

- This question paper contains 13 questions. All questions are compulsory.
- The question paper has three sections – Section A, B and C.
- Section-A has 6 questions of 2 marks each. Section-B has 6 questions of 3 marks each, and Section-C has a case based question of 5 marks.
- There is no overall choice. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
- Wherever necessary, neat and properly labelled diagrams should be drawn.

SECTION-A

1. A boy developed some allergic reactions when he straight entered into his air conditioned room after a game of football outside his house. Write any two symptoms that could be noticed in such condition. How does our body combat such conditions? [2]

Ans. Symptoms that could be noticed in such condition are :

1. Sneezing
2. Mild fever
3. Running nose

This exaggerated response of the immune system to certain antigens or conditions is called allergy. The symptoms of which are caused due to the release of chemicals like histamine and serotonin. This response prevents the impact of allergens on the body cells. In such situations of allergic reactions, the body produces antibodies IgE to fight off the allergen. Chemicals like cytokines may also be released to lower the allergic reaction.

2. (a) (i) Write the Scientific name of the plant from where natural cannabinoids are obtained.
(ii) Mention the parts of the plant that are used for extracting the drug.
(iii) How does the drug affect human body? [2]

OR

- (b) Epithelial lining of our intestine is considered as secondary lymphoid organ. Justify the statement.

- Ans. (a) (i) *Cannabis sativa* is the plant from which cannabinoids are obtained.
(ii) From the Floral Calyxes and bracts of female plants the drug cannabinoids is obtained.
(iii) This drug belongs to cannabinoids which interact with cannabinoid receptors present in our brain. They are known for their effect on cardiovascular system of the body.

OR

- (b) The secondary lymphoid organs are those which provide the site for the actual interaction of antigen and antibody and kill them off. Since, the inner lining of intestine is directly in contact with the external environment (food sources from outside) which is prone to microbial infection, so they contain lymph nodes where lymphocytes interact with and kill the foreign antigens. Hence, the epithelial lining of our intestine is considered as a secondary lymphoid organ.

3. Farmers are often suggested to use the following organisms in their crop land so as to improve the soil fertility.

(i) *Rhizobium* (ii) *Anabaena*

Explain. [2]

- Ans. (i) *Rhizobium* lives in the root nodules of leguminous plants and fixes atmospheric nitrogen into the soil in usable forms which can be taken up by the plants through their roots. Hence, they help the plants to get their nutritional requirement of nitrogen which otherwise will not be possible.
(ii) *Anabaena* is a nitrogen fixing blue-green algae (a bacterium) which fixes atmospheric nitrogen into soil in usable forms for the plants to utilise them.

Thus, farmers are suggested to use them to improve the growth and yield of their crops.

4. Organic farmer use *Trichoderma* and *Baculovirus* as biological control agents. Explain. [2]

Ans. *Baculovirus* have double-stranded DNA that have species specific insecticidal properties. They kill the insects and arthropods. *Trichoderma* are the most widely used fungal biocontrol agents against fungal diseases of pulses, grapes, cotton, onion, carrot, peas, plums, maize, apple, etc.

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B Lingard



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