

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. *Baculoviruses* 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.

Jan 2edexcel Biology Question Paper

Mary Jones



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Pearson Edexcel A Level Biology (Year 1 and Year 2) Martin Rowland, Edward Lees, C. J. Clegg, 2019-07-29 Supports Pearson Edexcel Level 3 Advanced GCE in Biology B 9BI0 specification Build investigative skills test understanding and apply biological theory to topical examples with the updated all in one textbook for Years 1 and 2 Combining everything your students need to know for the Pearson Edexcel A level Biology B specification this revised textbook will Support all 16 required practicals with activities and questions to help students explain procedures analyse data and evaluate results Provide clear definitions as well as explanations of the meanings of all technical vocabulary needed for the specification Help bring students up to speed with a summary of prior knowledge and diagnostic questions at the start of each chapter Offer assessment guidance with exam practice questions at the end of each chapter graded by difficulty to support progression Stretch more able students with new extended response and Challenge questions Build mathematical skills with a dedicated Maths for Biology chapter and support throughout explaining key concepts and methods Develop and embed understanding with end of chapter summaries free online access to Test yourself answers and an extended glossary **New**

Understanding Biology for Advanced Level Glenn Toole, Susan Toole, 1999 Intended for AS and A Level Biology and related courses this book provides coverage of the subject criteria and also offers option topics such as Biotechnology and Human Health and Disease Included are multiple choice questions for revision and examination questions for practice

The Times Index, 2012 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Biology** Ian Honeysett, 2007-09 Written by examiners and practicing teachers each book in this series contains activities and useful features intended to aid understanding Knowledge is tested throughout with progress checks at the end of every chapter and practice questions at the end of each section **British Humanities Index**, 2005 Complete Biology W. R.

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Allan,2015-11-01 Edexcel AS Biology Student Unit Guide New Edition: Unit 2 Development, Plants and the Environment

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Edexcel AS Biology Unit 2: Development, Plants and the Environment Mary Jones,2009-04-24 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers

Edexcel International GCSE Biology Charlotte Burrows, *Edexcel A-level Year 2 Biology B Student Guide: Topics 5-7* Mary Jones,2016-04-18 Exam Board Edexcel Level A level Subject Biology First Teaching September 2015 First Exam June 2017 Written by experienced examiner Mary Jones this Student Guide for Biology Identifies the key content you need to know with a concise summary of topics examined in the A level specifications Enables you to measure your understanding with exam tips and knowledge check questions with answers at the end of the guide Helps you to improve your exam technique with sample answers to exam style questions Develops your independent

learning skills with content you can use for further study and research 9-1 GCSE Biology Edexcel Revision Question Cards CGP Books,2019-02-13 Edexcel GCSE Biology Nick Dixon,2011-05 This text is carefully matched to the exam board specification for focused study Clear explanations and supporting diagrams ensure understanding and help students to prepare for the exam with confidence Edexcel Biology B. Mary Jones,2016

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