

**Internal Assignment Examinations of Botany (Session 2021-23)**  
**Directorate of Open and Distance Learning**  
**University of Kalyani**

**Date: 03/04/2022**

<b>Second Internal Assignment:</b>				
<b>PAPER CODE</b>	<b>QUESTIONS</b>	<b>TOTAL MARKS (15)</b>	<b>LAST DATE OF SUBMISSION</b>	<b>EMAIL ADDRESS</b>
<b>BOTCOR T101</b>	What is immunoglobulin? Describe the structural features of any one type of immunoglobulin with schematic diagram. Define adjuvant. [2+6+5+2] <b>Or</b> Mention different steps of industrial ethanol production. Describe any current preservative efficacy test methods in cosmetic microbiology. [8+7]	<b>Do</b>	<b>18/04/2022</b>	<b>botany1d odl@klyu niv.ac.in</b>
<b>BOTCOR T102</b>	What is pit connection? Write short note on evolutionary trends in red algae lineages. What is triphasic life cycle? [4+8+3] <b>Or</b> Describe the different fungal mycelia modification. State the difference between oomycota and eumycota. Mention classification of Oomycota group. [6+3+6]			
<b>BOTCOR T103</b>	1.a) Give an account of the chemical constituents found in bryophytes Name one fossil bryophyte. Name two species of bryophytes where cesium accumulation is found. [5+1+2] b) Mention five medicinal values of Pteridophytes. What are Fern ally and True Ferns? [4+3] <b>Or,</b> 2.a) Write short note on sporophyte of Moss. Name one fossil liverwort. [7+1] b) Mention the characters of Euphylllophytes. What is fern cultivation and gardening? [3+4]			
<b>BOTCOR T104</b>	1.a) Write the methodologies of Cladistics. [6] b) Describe the traits of <i>Ginkgo biloba</i> . Write the phylogenetic specialization of Tracheary Elements and fibers. [4+5] <b>Or,</b> 2.a) Write notes on DNA barcoding. [6] b) Write the angiospermic characters of <i>Gnetum</i> . What are bulliform cells? Explain the Anatomical application in Archaeology. [5+1+3]			
<b>PAPER CODE</b>	<b>QUESTIONS</b>	<b>TOTAL MARKS (5)</b>		
<b>BOTAECC</b>	<b>Write short notes on:</b> Major Environmental Laws <b>Or</b> Effect of pesticides on health and the environment.	<b>Do</b>		

**NB:**

- Assignment should be sent through email only. Do not send it through any other means.
- Assignment should be sent in PDF only. For Each paper, make separate PDF file. The name of the PDF file should be the Paper's name.