

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

Time : 3 Hrs.

Pre- Ph.D. Examination April-2018

Allied Health Sciences

Paper – II

Area of Specialization

Q.P Code: 5302

[Max. Marks : 100]

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

10 X 10 = 100 Marks

1. Explain the different types of Culture media used to isolate and preserve the microbial cultures.
2. Explain in detail, How various Microbial cultures are maintained and preserved in laboratories.
3. Explain the methods for measurement of fungal growth.
4. Describe the Nutritional and environmental requirement for the growth of fungi.
5. Propose reasons why there is such an interest in the secondary metabolites of plants and microorganism. (2) Explain phenylpropanoid pathway (8)
6. Explain how immobilization of cells leads to enhanced production of Secondary metabolites.
7. What is Immunohistochemistry? Describe How it is carried out/done.
8. What is HPLC? Explain the working mechanism of HPLC.
9. Discuss the various cancer associated mutations and specify its importance.
10. What are the causes of cancer? Explain different form of Cancer Therapy.

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