



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2022-26
Semester	: Third	Sessional	: Second
Subject	: Pharmaceutical organic Chemistry-II	Subject Code	: BP301T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 18/12/2023

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Write a note on drying of oils?
2. Draw the structure & write the uses of phenanthrene?
3. Explain the term acid value?
4. Write down the reactions of cyclopropane & cyclobutane?
5. Draw the structure & write the uses of triphenylmethane?

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Explain baeyer's strain theory of stability of cycloalkanes and give its limitations?
2. Write down the synthesis & chemical reactions of naphthalene?

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Write down the preparation and reactions of anthracene?
2. Explain the coulson & moffitt's modification theory of cycloalkanes?
3. Draw the structure and write the synthesis & impotents of diphenylmethane?



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B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2022-26
Semester	: Third	Sessional	: Second
Subject	: Physical Pharmaceutics – I	Subject Code	: BP302T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 19/12/2023

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Classify surface active agent and its application?
2. What is E.M.F of complete cell?
3. Define buffer capacity and maximum buffer capacity?
4. Enlist the factor affecting protein binding?
5. Explain monomolecular inclusion?

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Discuss in brief various type of organic molecular complex?
2. Explain in detail about application of buffers?

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Add a detail note on HLB free energy?
2. Describe the term surface free energy?
3. Explain protein binding?



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B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2022-26
Semester	: Third	Sessional	: Second
Subject	: Pharmaceutical Microbiology	Subject Code	: BP303T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 20/12/2023

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Define growth and generation time?
2. What is selective media and give its example?
3. Give advantages of lyophilisation method?
4. Write down ideal properties of disinfectants?
5. Define bacteriostatics and bactericidal?

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. What is uses of biochemical test and explain IMVIC test in brief?
2. Write the benefits of culture preservation and explain suitable method for bacterial culture preservation?

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Explain cultivation of viruses by chick embryo techniques?
2. Write a short note on radiation sterilization?
3. Give detail about sporulation process with phases?



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B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2022-26
Semester	: Third	Sessional	: Second
Subject	: Pharmaceutical Engineering	Subject Code	: BP304T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 21/12/2023

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Enlist the mechanism of filtration?
2. Differentiate blade and baffles in solid mixing equipment?
3. Enlist the function of filter aid?
4. Write two pharmaceutical application of centrifugal sedimentation?
5. List the factor affecting rate of filtration?

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Describe the steps involve in solid mixing with its kinetics?
2. What is mean by corrosion? Name the various types of corrosion. How can corrosion be prevented?

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Write construction and working of perforated basket centrifuge?
2. Write construction and working of membrane filtration?
3. What are the properties of glass and types of glass?