B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	:	2023-24	Batch Year	:	2022-26
Semester	:	Third	Sessional	:	First
Subject	:	Pharmaceutical Organic Chemistry-II	Subject Code	:	BP301T
Paper (T/P)	:	Theory	Max. Marks	:	30
Time Duration	:	1 hour 30 minutes	Date	:	30/10/2023

I. Answer ALL the questions   5 x 2 = 10 Marks

1. Explain the term Saponification?

2. Write the structure and uses of DDT?

3. Explain any two qualitative tests of phenols?

4. Write the structure and uses of BHC and Chloramine?

5. Write the structure and uses of Napthols and Resorcinol?

II. Answer any ONE from the following questions   1 x 10 = 10 Marks

1. Give analytical synthetic and other evidences in deviation of structure of benzene.

2. Explain method of preparation and chemical reactions of phenol?

III. Answer any TWO from the following questions   2 x 5 = 10 Marks

1. Explain Friedel Craft Alkylation and Acylation of benzene?

2. Explain the term Aromaticity and Resonance in benzene. Explain in detail Huckel's rule?

3. Explain the three reactions of amines?

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Acad. Year	:	2023-24	Batch Year	:	2022-26
Semester	:	Third	Sessional	:	First
Subject	:	Physical Pharmaceutics-I	Subject Code	:	BP302T
Paper (T/P)	:	Theory	Max. Marks	:	30
Time Duration	:	1 hour 30 minutes	Date	:	31/10/2023

I. Answer ALL the questions   5 x 2 = 10 Marks

1. What is azeotropic mixture?

2. Define salvation?

3. What are the characteristic of gases?

4. Explain latent heat in short?

5. Differentiate between aerosol and inhaler?

II. Answer any ONE from the following questions   1 x 10 = 10 Marks

1. Explain in brief the process involved in transformation of solid into liquid?

2. Describe how dissociation constant can be determined and its application?

III. Answer any TWO from the following questions   2 x 5 = 10 Marks

1. Discuss about additives constitutive property of a compound?

2. Derive the universal law for ideal gas and vander-waal equation for real gas?

3. Explain the process of interaction between solute and solvent?

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Acad. Year	:	2023-24	Batch Year	:	2022-26
Semester	:	Third	Sessional	:	First
Subject	:	Pharmaceutical Microbiology	Subject Code	:	BP303T
Paper (T/P)	:	Theory	Max. Marks	:	30
Time Duration	:	1 hour 30 minutes	Date	:	01/11/2023

I. Answer ALL the questions   5 x 2 = 10 Marks

1. Enlist the raw material used in cultural media?

2. What are the Aerobs and Anaerobs?

3. Draw well label diagram of bacteria?

4. Give the property of virus?

5. Distinguish between Gram positive and Gram negative bacteria?

II. Answer any ONE from the following questions   1 x 10 = 10 Marks

1. What is pure culture? Explain culture media and physical parameter for growth?

2. Explain designing of aspectic area and give the requirements for aspectic area?

III. Answer any TWO from the following questions   2 x 5 = 10 Marks

1. Define microscopy and write the principle and working?

2. Note on bacterial growth curve?

3. Explain bacterial isolation method?

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Acad. Year	:	2023-24	Batch Year	:	2022-26
Semester	:	Third	Sessional	:	First
Subject	:	Pharmaceutical Engineering	Subject Code	:	BP304T
Paper (T/P)	:	Theory	Max. Marks	:	30
Time Duration	:	1 hour 30 minutes	Date	:	02/11/2023

I. Answer ALL the questions   5 x 2 = 10 Marks

1. Write down the advantages and disadvantages of ventri meter?

2. Enlist the various mechanism of size reduction?

3. What are the official standards of powder?

4. Explain conduction mode of heat transfer?

5. Write application of drying?

II. Answer any ONE from the following questions   1 x 10 = 10 Marks

1. Explain in detail about principle, working and application with well label diagram of fluidized bed dryer?

2. Write in detail note on pirnciple, construction, working and advantages with diagram of cyclone separator?

III. Answer any TWO from the following questions   2 x 5 = 10 Marks

1. Explain working and application of fluid energy mill diagram?

2. Add a note on Reynold's experiment with its significance?

3. What is equilibrium moisture content and explain its method?