

(RS 2 & RS 3)

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Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Explain etiopathogenesis of angina pectoris and its management
- 2. Explain in detail the drug treatment of anxiety and mood disorders
- 3. Describe etiology, pathophysiology and drug therapy of diabetes

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Discuss about immunosuppressants and immunostimulants
- 5. Classify various coagulation disorders and mention the drugs used in treatment of various types anemia
- Explain the etiopathogenesis of rheumatoid arthritis and osteoarthritis 6.
- 7. Classify various neoplastic diseases and discuss the chemotherapy of any one neoplastic disease
- 8. Explain the management of peptic ulcer and GERD
- 9. Explain etiopathogenesis and management of CHF

SHORT NOTES 2 X 5 = 10 Marks

Mention the drugs used in treatment of malaria Jaria Akk * * * * 11.

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LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. Define segmentation. Explain with examples the different ways of segmenting the pharmaceutical market. What are the advantages and disadvantages of segmentation?
- 2. Explain in detail the product life cycle for pharmaceuticals with strategies to be adopted at each stage. Add a brief note on the Drugs and Magic Remedies Act.
- 3. Define product positioning. Explain with examples the different positioning strategies for pharmaceutical products.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Discuss current pharmaceutical industry scenario in India
- 5. Explain in detail the different steps involved in field research
- 6. Explain the different forecasting techniques applicable to the pharmaceutical market
- 7. Explain the impact of National drug policy on pharmaceutical market
- 8. Write note on the different aspects of training of field personnel
- 9. Discuss in brief the various considerations to be reviewed for launch of a product in the international market

SHORT NOTES (Answer both)

2 X 5 = 10 Marks

- 10. Write short notes on the steps involved in the marketing of industrial goods
- 11. Write notes on the role of the product manager in pharmaceutical marketing

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LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. Discuss about tasks, responsibilities and leadership styles of professional managers
- 2. Discuss various human resource management function (HRM) in a pharmaceutical company
- 3. Explain the various operation research techniques used by pharma industry

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain inventory control models for pharmaceutical industry
- 5. Discuss productivity concepts of pharmaceutical business
- 6. Explain effective communication skills used in pharmaceutical organizations
- 7. Classify barriers of communication and explain proess of communication
- 8. Explain organization structure of a pharmaceutical unit
- 9. Explain about decision making under various situations in pharmaceutical business

SHORT NOTES 2 X 5 = 10 Marks

MMM Filest Bath* * * 10. Management information system (MIS)

11. Break even analysis



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LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. Stability testing procedure as per ICH guidelines for pharmaceuticals
- 2. Pilot scale up techniques for tablets
- 3. Manufacturing licences and their requirements as per drugs and cosmetic act

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. What are the salient features of ISO 9000
- 5. Validation of mixer used in tablet manufacturing
- 6. Langrangian technique of optimization in pharmaceutical formulation
- 7. Effluent treatment in fermentation industry
- 8. Material handling techniques for pharmaceutical products
- 9. Layout of building for manufacturing parenterals

SHORT NOTES 2 X 5 = 10 Marks

- 10. What are the different types of intellectual property rights briefly explain each type
- 11. Quality assurance concept in pharma industry

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