

Bachelor of Pharmacy (B.Pharm) Eighth Semester  
**BP802 - Medicinal Chemistry-III**

P. Pages : 1

Time : Three Hours



**GUG/W/18/1189**

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
  2. Assume suitable data wherever necessary.
  3. Discuss the reaction, mechanism wherever necessary.
  4. Que. No. **1** is compulsory, solve **any four** from remaining.

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| <b>1.</b> | <b>Solve any four.</b>   | <b>16</b> |
|           | a) Define prostaglandins and give it's general structure.  |           |
|           | b) Differentiate between cox I & cox II. Inhibitors.   |           |
|           | c) Draw structures & IUPAC name of any two NSAIDS.   |           |
|           | d) What is neuromuscular blockers.   |           |
|           | e) Give synthesis of aspirin.  |           |
| <b>2.</b> | Explain in details about Antiasthmatics, Expectorants, and antitussives with mechanism of action, and uses.  | <b>16</b> |
| <b>3.</b> | a) What are Antispasmodics, classify them with examples and write their mode of action.  | <b>8</b>  |
|           | b) Write about agent used to treat the ulcers.   | <b>8</b>  |
| <b>4.</b> | Classify non steroidal anti-inflammatory agents by giving structures of any two drugs from each category. Discuss the mode of action and SAR for general structure of NSAID. | <b>16</b> |
| <b>5.</b> | Explain in details about the thyroid and Anti-thyroids Drugs with discussion about hypothyroidism & hyperthyroidism.   | <b>16</b> |
| <b>6.</b> | Give classification of cholinergic and anticholinergic agents with examples, SAR, and general mode of action for each.   | <b>16</b> |
| <b>7.</b> | a) What are steroids give it is classification, and nomenclature rule for steroids.  | <b>8</b>  |
|           | b) What are narcotic & analgesics, classify them, Give general SAR and mode of action of narcotic analgesics.  | <b>8</b>  |

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