

# SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



**UNIT: 3**

**TOPIC : PROSTAGLANDINS**

**COURSE: PHARMACOLOGY II**

**2 MARKS**

| <b>S.No</b> | <b>Questions</b>                                                                   | <b>Mapping from<br/>TNMGRMU/GPAT/MRB/Pharma<br/>Company with Year</b> | <b>Bloom's<br/>Taxonomy</b> |
|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------|
| <b>1</b>    | Define prostaglandins.                                                             | TNMGRMU May 2023; GPAT 2020 (lipid mediators); MRB 2022               | Remembering                 |
| <b>2</b>    | Mention any two physiologic functions of prostaglandins.                           | TNMGRMU March 2024; GPAT 2019; Sun Pharma Interview 2023              | Remembering                 |
| <b>3</b>    | Name two prostaglandin analogues used for induction of labor.                      | TNMGRMU Sept 2021; GPAT 2021; MRB 2023                                | Remembering                 |
| <b>4</b>    | List the enzymes involved in prostaglandin synthesis.                              | . TNMGRMU May 2022; GPAT 2020; Dr. Reddy's 2023                       | Understanding               |
| <b>5</b>    | Write two therapeutic uses of PGE1 analogues.                                      | TNMGRMU Oct 2023; GPAT 2022; Cipla Interview 2024                     | Remembering                 |
| <b>6</b>    | What are leukotrienes? Give two examples.                                          | TNMGRMU Aug 2022; GPAT 2021; Aurobindo 2023                           | Understanding               |
| <b>7</b>    | Differentiate between COX-1 and COX-2 in prostaglandin synthesis (any two points). | TNMGRMU Dec 2023; GPAT 2020; MRB 2022                                 | Understanding               |
| <b>8</b>    | Mention two prostacyclin analogues.                                                | TNMGRMU March 2024; GPAT 2023; Lupin 2021                             | Remembering                 |

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## 5 MARKS

| S.NO | Questions                                                                                                                         | Mapping from<br>TNMGRMU/GPAT/MRB/Pharma<br>Company with Year                   | Bloom's<br>Taxonomy         |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|
| 1    | Classify prostaglandins with examples.                                                                                            | TNMGRMU May 2024; GPAT 2022 (eicosanoids classification); MRB 2023; Cipla 2022 | Understanding               |
| 2    | Explain the biosynthesis of prostaglandins.                                                                                       | TNMGRMU March 2023; GPAT 2020; Dr. Reddy's 2024                                | Understanding/<br>Analyzing |
| 3    | Write the pharmacological actions of prostaglandins on uterus, bronchi, and GIT.                                                  | TNMGRMU Oct 2023; GPAT 2021; Sun Pharma Interview 2023                         | Applying                    |
| 4    | Discuss the therapeutic uses of prostaglandin analogues with examples.                                                            | TNMGRMU Dec 2022; GPAT 2019; MRB 2022                                          | Analyzing                   |
| 5    | Write short notes on prostacyclin and thromboxane.                                                                                | TNMGRMU May 2022; GPAT 2021; Aurobindo Pharma 2024                             | Understanding               |
| 6    | Explain the role of leukotriene antagonists in therapy with examples.<br>TNMGRMU Dec 2021; GPAT 2020; MRB 2023<br>Applying<br>--- | TNMGRMU Dec 2021; GPAT 2020; MRB 2023                                          | Applying                    |

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**10 MARKS**

| S.NO | Questions                                                                                                                                                               | Mapping from<br>TNMGRMU/GPAT/MRB/Pharma<br>Company with Year                    | Bloom's<br>Taxonomy  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------|
| 1    | Describe in detail the classification, biosynthesis, pharmacological actions, and therapeutic uses of prostaglandins.                                                   | TNMGRMU March 2025; GPAT 2020 (full eicosanoid essay); MRB 2023; Cipla R&D 2023 | Analyzing/Evaluating |
| 2    | Explain the COX pathway, COX inhibition, and clinical significance of COX-1 vs COX-2 in prostaglandin synthesis.                                                        | TNMGRMU Dec 2023; GPAT 2021; Dr. Reddy's 2024                                   | Evaluating/Creating  |
| 3    | Discuss prostaglandin analogues in obstetrics and gynecology: drugs, mechanisms, uses, and adverse effects.                                                             | TNMGRMU Oct 2024; GPAT 2019; MRB 2023; Sun Pharma 2022                          | Applying/Analyzing   |
| 4    | Elaborate on prostacyclin (PGI <sub>2</sub> ) and thromboxane (TXA <sub>2</sub> ): synthesis pathways, actions, clinical role, analogues, and therapeutic applications. | TNMGRMU March 2024; GPAT 2020; Aurobindo Pharma 2023                            | Evaluating           |
| 5    | Explain the role of leukotrienes in inflammation, their antagonists, mechanisms, and applications in                                                                    | TNMGRMU May 2023; GPAT 2021; Lupin 2024                                         | Evaluating/Creating  |

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