

Question Paper

Exam Date & Time: 26-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY 2022
SUBJECT: PHC2201 - PHARMACOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1. Define the following terms with an example for each:

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|-----|--------------------------------|-----|
| 1A) | First-pass metabolism | (2) |
| 1B) | Synergism | (2) |
| 1C) | Non-proprietary name of a drug | (2) |
| 1D) | Chemoprophylaxis | (2) |
| 1E) | Teratogenicity | (2) |

2A) List three classes of oral antidiabetic drugs with an example for each and mention two adverse effects of any one class. List two insulin preparations. (5)

2B) List two first-line antitubercular drugs and mention an adverse effect of each of them. List two nitroimidazoles and mention their two uses and two adverse effects. (5)

3A) Enumerate two inhaled glucocorticoids, explain their antiasthmatic action and list their two adverse effects. List two drugs used in cough. (5)

3B) List two beta-adrenergic receptors with their location. Describe the effects of adrenaline on the heart. Mention two beta-adrenergic antagonists. (5)

3C) Enumerate two beta-lactam antibiotics and explain their mechanism of action. List two uses and two adverse effects of any one of them. (5)

3D) List two local anesthetics and explain their mechanism of action. Mention two techniques and two indications of local anesthesia. (5)

4. List two uses and two adverse effects of the following group of drugs.

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|-----|-----------------|-----|
| 4A) | Opioids | (2) |
| 4B) | Benzodiazepines | (2) |
| 4C) | Prokinetics | (2) |
| 4D) | Nitrates | (2) |

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FOURTH SEMESTER B.Sc. EMT/B.Sc. RRT & DT/B.Sc. CVT/B.Sc. MIT/BOT/B.Sc. PFT/B.Sc.AOTT DEGREE
EXAMINATION - MAY 2022
SUBJECT: PHC2203 - PHARMACOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Describe the terms "Iatrogenic disease", "Generic name" and "Synergism" with suitable examples. (10)
List two sources of drugs with an example for each. List two advantages and two disadvantages of the intravenous route of drug administration.
(6+2+2 = 10 marks)
- 2A) List two anticholinesterases and describe their mechanism of action. Mention two adverse effects of atropine. List two examples and two therapeutic uses of adrenergic drugs. (6)
- 2B) List two examples each for skeletal muscle relaxants and general anaesthetics. Mention four pharmacological actions of morphine. (4)
- 3A) List two drugs used for peptic ulcer and explain the mechanism of action of any one of them. (5)
Mention two classes of antiemetics with an example for each.
- 3B) Explain the mechanism of action of warfarin and list its two adverse effects. Enumerate two oral iron preparations and mention their two therapeutic uses. (5)
- 3C) List three classes of drugs with an example for each used in hypertension. Explain the mechanism of action of any one class. (5)
- 3D) Define suprainfection with an example. List two common features of aminoglycosides. List two drugs each used in tuberculosis and viral infection. (5)
- 4A) List two uses and two adverse effects of glucocorticoids. (2)
- 4B) Explain the mechanism of anti-asthmatic action of salbutamol. (2)
- 4C) List two second generation antihistaminics and mention their two advantages over first generation antihistaminics. (2)
- 4D) Explain the anti-inflammatory action of aspirin. (2)
- 4E) List two each anti-thyroid and oral antidiabetic drugs. (2)

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