

# Question Paper

Exam Date & Time: 22-Nov-2021 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT / BOPT / BSc. P.F.T. DEGREE EXAMINATION - NOVEMBER 2021  
SUBJECT: PHAR 202 - PHARMACOLOGY  
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Define the terms "Tolerance" and "Teratogenicity" with suitable examples. (4)
- 1B) List two sources of drugs with an example for each. (2)
- 1C) Enumerate two opioids. Describe analgesic action and list two adverse effects of any one of them. (4)
- 2A) List two anticholinergics. Mention their two uses and two adverse effects. (3)
- 2B) List two classes of drugs with an example for each used in bronchial asthma and explain the mechanism of action of any one of them. (4)
- 2C) Enumerate two anticoagulants and describe the mechanism of action of any one of them. (3)
- 3A) Mention two advantages and two disadvantages of the following routes of drug administration with an example of drug given by each route. (5)
- i) Oral
- ii) Subcutaneous
- 3B) Mention two drugs each used in the following conditions: (5)
- i) Vomiting
- ii) Parkinsonism
- iii) Malaria
- iv) Diabetes mellitus
- v) Fungal infection
- 3C) Enumerate two ACE inhibitors, describe their mechanism of action and list their two uses and two adverse effects. (5)
- 3D) Mention three groups of drugs with an example for each used in peptic ulcer. Explain the mechanism of action of any one group. (5)
- 4A) List two aminoglycosides and mention their two common features. (2)
- 4B) List four general toxicities of anticancer drugs. (2)
- 4C) List two examples and two uses of beta blockers. (2)
- 4D) Define the term "bacteriostatic drug" with an example. (2)
- 4E) List two drugs each used in acute gout and chronic gout. (2)

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# Question Paper

Exam Date & Time: 23-Nov-2021 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - NOVEMBER 2021  
SUBJECT: BPT 202 - EXERCISE PHYSIOLOGY  
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- |     |  |      |
|-----|--|------|
| 1)  | Explain acute responses and chronic adaptations to exercise in the respiratory system. | (10) |
| 2)  | Explain physiological changes and adaptations to exercise in hot environment.          | (10) |
| 3A) | Discuss methods to measure energy expenditure.   | (5)  |
| 3B) | Discuss physiological responses to exercise in high altitude.                          | (5)  |
| 3C) | Explain muscular adaptations to aerobic exercise.                                      | (5)  |
| 3D) | Discuss peripheral fatigue and its management.   | (5)  |
| 4A) | Define VO <sub>2</sub> max.  | (2)  |
| 4B) | Define physical activity and exercise.   | (2)  |
| 4C) | Explain open window period.  | (2)  |
| 4D) | How much energy is produced by 1 gram of fat, proteins and carbohydrates?              | (2)  |
| 4E) | Any two endocrine changes due to exercise.   | (2)  |

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# Question Paper

Exam Date & Time: 24-Nov-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - NOVEMBER 2021  
SUBJECT: BPT 204 - EXERCISE THERAPY - II  
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

- 1A) What is functional re-education? Elaborate the scope of functional re-education. Explain in detail the re-education of a paraplegic for bed mobility. (20)  
(2+4+14 = 20 marks)
- 1B) Elaborate the process of taking crutch measurements for axillary and elbow crutches. Describe in detail the various crutch gaits using axillary crutches. (20)  
(10+10 = 20 marks)
- 2A) Explain neuro-physiology of coordination. (10)
- 2B) Enumerate and explain the core principles of PNF. (10)
- 3A) Elaborate the principles of Frenkel's Exercise. (5)
- 3B) Differences between hold relax and contract relax. (5)
- 3C) Elaborate the levels of transfer. (5)
- 3D) Discuss muscle activity and uses of kneeling. (5)
- 3E) Elaborate the advantages and disadvantages of walker compared to crutches. (5)
- 3F) Elaborate the steps in transferring from wheelchair to a lower surface. (5)
- 4A) Uses of gutter crutch. (2)
- 4B) Any four non equilibrium tests for coordination. (2)
- 4C) Role of antagonist in voluntary movements. (2)
- 4D) What is slow reversal? (2)
- 4E) List the uses of bridging. (2)

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# Question Paper

Exam Date & Time: 26-Nov-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - NOVEMBER 2021  
SUBJECT: PSYC 204 - PSYCHOLOGY  
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |   |      |
|-----|---|------|
| 1A) | Discuss various concepts of normality and abnormality.      | (20) |
| 1B) | Discuss classical and operant conditioning.                 | (20) |
| 2A) | Define counselling. Write an essay on types of counselling. | (10) |
| 2B) | Discuss various theories of emotion with examples.          | (10) |
| 3A) | Factors affecting attention.                                | (5)  |
| 3B) | Supportive psychotherapy.                                   | (5)  |
| 3C) | Perceptual organisation.                                    | (5)  |
| 3D) | Substance dependence.                                       | (5)  |
| 3E) | Stages of development- Piaget.                              | (5)  |
| 3F) | Psychosocial rehabilitation.                                | (5)  |
| 4A) | Introspection.  | (2)  |
| 4B) | Intelligence.   | (2)  |
| 4C) | Time out.   | (2)  |
| 4D) | Mental retardation.   | (2)  |
| 4E) | Illusion.   | (2)  |

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