

# Question Paper

Exam Date & Time: 24-May-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY 2022  
SUBJECT: PTH2201 - EXERCISE PHYSIOLOGY  
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain any FIVE physiological responses and any FIVE chronic adaptations in cardiovascular system due to exercise in detail. (20)  
(10+10 = 20 marks)
- 2) Explain the neural changes following exercise. Add a note on glycogen sparing. (20)  
(15+5 = 20 marks)
- 3) Define fatigue. Explain the mechanism of peripheral fatigue in detail. (10)  
(2+8 = 10 marks)
- 4) Explain role of Aldosterone and thyroid hormone during exercise. (10)  
(5+5 = 10 marks)
- 5A) Explain any two pharmacological ergogenic aids used in sports. (5)
- 5B) Explain respiratory responses to exercise in detail (5)
- 5C) Describe the metabolic responses to exercise. (5)
- 5D) Explain effector organs maintaining thermoregulation during exercise. (5)
- 5E) Explain open window period (5)
- 5F) Write in detail about athletic diet. (5)
- 6A) Define relative VO<sub>2</sub> max (2)
- 6B) Define agility (2)
- 6C) Define Excess Post exercise oxygen consumption (2)
- 6D) Define Physical Activity (2)
- 6E) Write any two skill related components of health (2)

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# 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:

- |     |                                |     |
|-----|--------------------------------|-----|
| 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.

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

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# Question Paper

Exam Date & Time: 28-May-2022 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. CVT/BPT/BOT DEGREE EXAMINATION - MAY 2022  
SUBJECT : CPY2201/CPY2202 - CLINICAL PSYCHOLOGY  
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- |     |  |      |
|-----|--|------|
| 1)  | Define learning and explain Pavlov's classical conditioning. | (10) |
| 2)  | Compare DSM V & ICD 10 classificatory systems.               | (10) |
| 3A) | Enumerate the steps in creative thinking.                    | (5)  |
| 3B) | Explain Maslow's hierarchy theory.                           | (5)  |
| 3C) | Depression   | (5)  |
| 3D) | Outline the various types of counselling.                    | (5)  |
| 4A) | Projective tests   | (2)  |
| 4B) | Define emotion   | (2)  |
| 4C) | Autism   | (2)  |
| 4D) | Define crisis  | (2)  |
| 4E) | Time-out   | (2)  |

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# Question Paper

Exam Date & Time: 30-May-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2022  
SUBJECT: PTH 2202 - THEORETICAL CONCEPTS IN EXERCISE THERAPY -II  
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Mention types of walking aids. Discuss the types of crutch walking and Explain any one method of measurement technique for axillary crutch. (20)  
(5+10+5 = 20 marks)
- 2) Explain in detail the principles of functional re-education. Describe forearm prone lying under the following headings: (20)
  - i) Position
  - ii) Muscle activity
  - iii) Effects and uses(10+3+3+4= 20 marks)
- 3) Define Posture and explain the lateral view analysis of posture in standing. (10)
- 4) Explain the principles of gait re-education. (10)
- 5A) Explain the physiology of coordination. (5)
- 5B) Explain the factors affecting posture. (5)
- 5C) Elaborate on the non-equilibrium tests of coordination. (5)
- 5D) Describe leg functions in functional re-education. (5)
- 5E) Explain any 5 principles of PNF. (5)
- 5F) Discuss types of wheelchair transfer. (5)
- 6A) Name the crutch muscles. (2)
- 6B) What is reciprocal inhibition? (2)
- 6C) Mention the phases of transfer. (2)
- 6D) Mention any two essentials of Frenkle's exercises. (2)
- 6E) Mention any one advantages and one disadvantage of walker. (2)

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