

Question Paper

Exam Date & Time: 05-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: BPT 202 - EXERCISE PHYSIOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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|-----|--|------|
| 1) | Explain the acute response to exercise in the cardiovascular system. | (10) |
| 2) | Explain chronic adaptation to the neuromuscular system due to exercise training. | (10) |
| 3A) | Outline health risks associated with hyperbaric environment. | (5) |
| 3B) | Explain the concept of the lactate threshold and its significance. | (5) |
| 3C) | Explain the causes of peripheral fatigue. | (5) |
| 3D) | Explain the importance of electrolytes in the body during exercise. | (5) |
| 4A) | What is the Ventilatory threshold? | (2) |
| 4B) | What is Physical activity? | (2) |
| 4C) | Mention ANY TWO responses to exercise in the renal system. | (2) |
| 4D) | What is the Respiratory Exchange Ratio(RER)? | (2) |
| 4E) | Outline two disadvantages of having a low aerobic capacity. | (2) |

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Question Paper

Exam Date & Time: 03-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. (BOT/CVT/BPT/) / SECOND SEMESTER BASLP DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: CPY2201/CPY2202 - CLINICAL PSYCHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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|-----|--|------|
| 1) | Explain various theories of forgetting | (10) |
| 2) | Explain the psychological theories of Motivation | (10) |
| 3A) | Summarize the different ways to handle conflict | (5) |
| 3B) | List the steps in crisis intervention | (5) |
| 3C) | Explain the concept of normality and abnormality | (5) |
| 3D) | Different types of Intelligence tests | (5) |
| 4A) | Trial and error | (2) |
| 4B) | Bipolar disorder | (2) |
| 4C) | Transference | (2) |
| 4D) | Operant conditioning | (2) |
| 4E) | Substance abuse | (2) |

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Question Paper

Exam Date & Time: 31-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BACHELOR OF PHYSIOTHERAPY (BPT) / B.Sc. PERFUSION TECHNOLOGY DEGREE
EXAMINATION - MAY/JUNE 2024
SUBJECT: PHAR 202 - PHARMACOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Define biotransformation. (2)
- 1B) Mention four factors modifying drug action. (4)
- 1C) Mention two advantages and two disadvantages of intravenous route of drug administration. (4)
- 2A) List four first line antitubercular drug. Explain the mechanism of action of any one drug. (4)
- 2B) Define the term chemoprophylaxis with suitable example. (3)
- 2C) Enumerate three classes of drugs with an example for each used in the treatment of HIV. (3)
- 3A) List two differences between aspirin and paracetamol. Mention two uses, two adverse effects and two contraindications of aspirin. (5)
(2+3 = 5 marks)
- 3B) Mention three groups of diuretics with a suitable example for each. Mention two uses and two adverse effects of diuretics. (5)
(3+2 = 5 marks)
- 3C) Enumerate two groups of peripherally acting skeletal muscle relaxants with an example for each. List two examples, two uses and two adverse effects of centrally acting skeletal muscle relaxants. (5)
(2+3 = 5 marks)
- 3D) Enumerate three groups of drugs with a suitable example used in the treatment of peptic ulcer. Explain the mechanism of action of any one of them. (5)
(3+2 = 5 marks)

4. Mention two drugs each useful in the following conditions and mention two adverse effect of any one of them:

- 4A) Diabetes Mellitus (2)
- 4B) Iron deficiency anemia (2)
- 4C) Bronchial asthma (2)
- 4D) Epilepsy (2)
- 4E) Rheumatoid arthritis (2)

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Question Paper

Exam Date & Time: 31-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

**FOURTH SEMESTER PHYSIOTHERAPY / SECOND SEMESTER B.Sc. PHYSICIAN ASSISTANT DEGREE EXAMINATION -
MAY/JUNE 2024
SUBJECT: PHC2201 - PHARMACOLOGY
(2020/2022 SCHEME)**

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Explain first-pass metabolism. Mention two examples of drugs having high first-pass metabolism. List two advantages and two disadvantages of the inhalational route of drug administration. (5)
- 1B) Define competitive antagonists and non-competitive antagonists with suitable examples. Define therapeutic index. (5)
- 2A) Define general anaesthetics. Describe pre-anaesthetic medication and list two drugs used in pre-anaesthetic medication. (5)
- 2B) Explain the mechanism of action of aspirin. List two uses, two adverse effects, and two contraindications of morphine. (5)

3. Short notes:

- 3A) Describe the effects of adrenaline on CVS. List two therapeutic uses and two adverse effects of atropine. (5)
- 3B) List the composition of WHO-ORS. List three different classes of antiemetic with an example for each. (5)
- 3C) List two drugs, each used for acute attack and chronic prophylaxis of angina. Explain the mechanism of action of enalapril and list its two adverse effects. (5)
- 3D) Enumerate two aminoglycosides and mention their four common features. List two antifungal and two antitubercular drugs. (5)

4. Very short answers:

- 4A) List two centrally-acting and two peripherally-acting skeletal muscle relaxants. (2)
- 4B) List the four parts of a prescription. (2)
- 4C) Explain the mechanism of action of cotrimoxazole. (2)
- 4D) Explain the anti-inflammatory action of glucocorticoids. (2)
- 4E) List four general toxicities of anticancer agents. (2)

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Question Paper

Exam Date & Time: 03-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2024

SUBJECT: PSYC204 - PSYCHOLOGY

(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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|-----|--|------|
| 1) | Discuss the factors affecting memory and elaborate on the theories of forgetting | (20) |
| 2) | Discuss the various models of mental illness | (20) |
| 3) | Elaborate on the various methods of research and data collection in psychology | (10) |
| 4) | Describe the purpose of neuropsychological assessments and list the various types of tests for frontal lobe assessment | (10) |
| 5A) | Chaining | (5) |
| 5B) | Criteria for diagnosing clinical depression | (5) |
| 5C) | Projective testing | (5) |
| 5D) | Drive theory of motivation | (5) |
| 5E) | Perceptual organization | (5) |
| 5F) | Types of counselling | (5) |
| 6A) | Time out | (2) |
| 6B) | Moderate mental retardation | (2) |
| 6C) | Definition of intelligence | (2) |
| 6D) | Focused attention | (2) |
| 6E) | Positive reinforcement | (2) |

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Question Paper

Exam Date & Time: 05-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2024

SUBJECT: PTH2201 - EXERCISE PHYSIOLOGY

(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain ANY FIVE acute and ANY FIVE chronic changes due to exercise in cardiovascular system. (20)
(10+10 = 20 marks)
- 2) Define and classify Ergogenic aids. Explain ANY TWO pharmacological ergogenic aids used in sports. (20)
(2+8+10 = 20 marks)
- 3) Explain neural and muscular changes due to exercise. (10)
- 4) Define Lactate threshold. Explain role of ATP PCr system during exercise. (10)
(2+8 = 10 marks)
- 5A) Explain ANY TWO hazards of hyperbaric condition. (5)
- 5B) Summarize respiratory responses due to exercise. (5)
- 5C) Explain ventilatory threshold. (5)
- 5D) Explain role of renin during exercise. (5)
- 5E) Explain thermoregulatory mechanism due to exercise in cold. (5)
- 5F) Explain the role of carbohydrate in athletic diet. (5)
- 6A) Define VO₂ max. (2)
- 6B) List ANY TWO skill based components of physical fitness. (2)
- 6C) Define muscular strength with one example. (2)
- 6D) Name the oxidative enzyme of muscles. (2)
- 6E) List metabolic changes due to exercise. (2)

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Question Paper

Exam Date & Time: 07-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: PTH2202 - THEORETICAL CONCEPTS IN EXERCISE THERAPY-II
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define coordination and mention the test for incoordination. Explain Frenkel's exercises for balance training (20)
(2+6+12 = 20 marks)
- 2) Outline factors influencing selection of walking aids. Explain measurement of Walker. Mention any two indications and two contraindications of a walker. (20)
(10+6+4 = 20 marks)
- 3) Discuss the systems involved in maintaining posture (10)
- 4) Discuss the techniques and muscle activity to attain and maintain prone kneeling and explain the effects and uses of that position (10)
(4+3+3 = 10 marks)
- 5A) Explain the methods of gait evaluation (5)
- 5B) Explain any two specific techniques of PNF (5)
- 5C) Explain the method of wheelchair transfer (5)
- 5D) Explain any 5 principles of postural re-education (5)
- 5E) Explain the leg function in functional re-education (5)
- 5F) Explain the physiology of balance (5)
- 6A) Define scoliosis (2)
- 6B) List the different phases of transfer (2)
- 6C) List any two faulty patterns observed during walking (2)
- 6D) List any two contraindications for PNF (2)
- 6E) Define Posture (2)

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