

Question Paper

Exam Date & Time: 24-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY 2022
SUBJECT: BPT 202 - EXERCISE PHYSIOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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|-----|---|------|
| 1) | Write the acute responses to exercise in cardiovascular system | (10) |
| 2) | Write ATP-PCr system in detail for energy production | (10) |
| 3A) | Explain any five adaptations in musculoskeletal due to exercise | (5) |
| 3B) | Write in detail about metabolic adaptation due to exercise | (5) |
| 3C) | Explain athletic diet | (5) |
| 3D) | Define fatigue. Explain in detail causes of peripheral fatigue. | (5) |
| 4A) | Define cardiovascular drift | (2) |
| 4B) | Define muscular power and endurance | (2) |
| 4C) | Define absolute and relative VO ₂ max | (2) |
| 4D) | Name any two neurological changes due to exercise | (2) |
| 4E) | Define METS | (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 B.Sc. PFT/B.OPTOMETRY/BPT/B.Sc. RRT & DT DEGREE EXAMINATION - MAY 2022
SUBJECT: PHAR 202 - PHARMACOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Define bioavailability. (2)
- 1B) Enumerate four factors affecting drug absorption. (4)
- 1C) Mention two advantages and two disadvantages of oral route of drug administration. (4)
- 2A) Mention four types of adrenergic receptors and their distribution. (4)
- 2B) Enumerate two adrenergic drugs and mention two uses of any one. (2)
- 2C) Name four beta blockers. Mention two uses and two adverse effects for the same. (4)
- 3A) List two local anesthetics and two general anaesthetics. Describe three complications of general anaesthesia. (5)
(2+3 = 5 marks)
- 3B) Mention four uses, two adverse effects and two contraindications for morphine. Which is the antidote for morphine poisoning? (5)
(2+2+1 = 5 marks)
- 3C) Write the mechanism of action of cotrimoxazole. Mention two uses and two adverse effects. (5)
(3+2 = 5 marks)
- 3D) Enumerate four drugs used in bronchial asthma. Write the mechanism of action and two adverse effects of any one. (5)
(2+2+1 = 5 marks)

4. Write two uses and two adverse effects for the following:

- 4A) Furosemide (2)
- 4B) Aspirin (2)
- 4C) Dexamethasone (2)
- 4D) Warfarin (2)
- 4E) Enalapril (2)

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Question Paper

Exam Date & Time: 28-May-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION - MAY/JUNE 2022
SUBJECT: PSYC 204 - PSYCHOLOGY
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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|-----|---|------|
| 1) | Define counselling. Explain the objectives and different types of counselling. | (20) |
| 2) | Define learning. Explain classical and operant conditioning approaches with help of examples. | (20) |
| 3) | Define stress. Explain the various types of coping mechanisms. | (10) |
| 4) | Define personality and explain in detail the psychoanalytic theory of personality. | (10) |
| 5A) | Client centered therapy | (5) |
| 5B) | Substance use disorders | (5) |
| 5C) | Types of illusions | (5) |
| 5D) | Contingency management | (5) |
| 5E) | Motor development and milestones | (5) |
| 5F) | Types of conflicts | (5) |
| 6A) | Observation method | (2) |
| 6B) | Emotion | (2) |
| 6C) | Attention | (2) |
| 6D) | ICD - 10 | (2) |
| 6E) | Apraxia | (2) |

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Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - MAY/JUNE 2022
SUBJECT: BPT 204 - EXERCISE THERAPY II
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define functional re-education. Explain any four positions used to rehabilitate patient from supine to standing under following headings: (20)
 - i) Position
 - ii) Muscle activity
 - iii) Effects and uses
- 2) Define proprioceptive neuro muscular facilitation. List the indications and contra indications. Describe in details the principles of PNF. (20)
- 3) Explain pre-crutch and crutch training. (10)
- 4) Explain the principles of coordination. (10)
- 5A) Elaborate on equilibrium test of coordination. (5)
- 5B) Discuss the principles of transfer techniques. (5)
- 5C) Explain arm function in functional re-education. (5)
- 5D) List advantages and disadvantages of a walker. (5)
- 5E) Discuss Frenkel's exercise. (5)
- 5F) Discuss any two PNF patterns. (5)
- 6A) Types of orthopaedic gaits. (2)
- 6B) What is normal timing? (2)
- 6C) Name the phases of transfer. (2)
- 6D) What is dysarthria? (2)
- 6E) What is rhythmic initiation? (2)

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