

Question Paper

Exam Date & Time: 31-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT: BPT 202 - EXERCISE PHYSIOLOGY
(2016 SCHEME)

Saturday, August 31, 2019 (14.00 - 16.00)

Answer all questions.

Draw diagrams wherever necessary.

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Elaborate in detail acute responses & chronic adaptations seen in the cardiovascular system. (10)
(5+5 = 10 marks)
- 2) Explain immune responses and metabolic adaptations to exercise training. (10)
(5+5 = 10 marks)
- 3A) Explain glycolysis. (5)
- 3B) Explain the neural adaptations following resistance training. (5)
- 3C) Explain in brief the limitations and dangers of exercising at extreme altitude and name acclimatization strategies for the same. (5)
- 3D) Explain the mechanisms responsible for muscle fatigue during intense exercise. (5)
- 4A) What is Phosphate loading? (2)
- 4B) What is the law of Laplace? (2)
- 4C) What is Hyperplasia? (2)
- 4D) VO_{2max} . (2)
- 4E) What is electrolyte imbalance due to exercise? (2)

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Question Paper

Exam Date & Time: 03-Sep-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT: BPT 204 - EXERCISE THERAPY - II
(2016 SCHEME)
Tuesday, September 03, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define walking aids. Explain different types of walking aids in terms of its indications, prerequisites for selection, advantages, disadvantages and complications. (20)
- 2) Explain the method of progression from supine to kneeling for a patient with right side hemiparesis. Add a note on exercises given in each position during progression. (15+5 = 20 marks) (20)
- 3) Explain the techniques of proprioceptive neuromuscular facilitation. (10)
- 4) Explain the causes of incoordination and its treatment principles. (5+5 = 10 marks) (10)
- 5A) Explain the measurement methods for prescribing crutches for a below knee amputation patient. (5)
- 5B) Explain the transfer methods from wheel chair to mat. (5)
- 5C) Mention any FIVE principles of proprioceptive neuromuscular facilitation. (5)
- 5D) Non-equilibrium tests for incoordination. (5)
- 5E) Wheel chair training for ascending and descending slopes. (5)
- 5F) Explain the exercises done in sitting during rehabilitation of stroke patients. (5)
- 6A) What is Romberg's sign? Mention its use.. (2)
- 6B) Mention the parts of Wheelchair. (2)
- 6C) What is half kneeling? Mention its use. (2)
- 6D) Mention any TWO assumptions of PNF approach. (2)
- 6E) What is pivot transfer? Mention its use. (2)

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Question Paper

Exam Date & Time: 29-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT/ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T. DEGREE EXAMINATION - AUG/SEPT 2019

SUBJECT : PHARMACOLOGY (PHAR 202)
(2016 SCHEME)

Thursday, August 29, 2019 (14.00 - 16.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

1) Define the following terms with an example:

- 1A) Generic name (2)
- 1B) Local anaesthetics (2)
- 1C) First pass metabolism (2)
- 1D) Bactericidal drug (2)
- 1E) Competitive antagonism (2)

Answer all the questions.

- 2A) Enumerate two anticholinesterases. List two uses and two adverse effects of them. (3)
- 2B) List two parenteral routes of drug administration and mention two advantages and two disadvantages of any one of them. (3)
- 2C) Explain the basis for combining levodopa with carbidopa. (2)
- 2D) Mention two classes of anti-hypertensive drugs with an example for each. (2)

- 3A) Enumerate three classes of drugs used in peptic ulcer with an example for each and explain the mechanism of action of any one of them. (5)
- 3B) List two classes of anti HIV drugs with an example for each. Explain the mechanism of action of acyclovir and mention its two adverse effects. (5)
- 3C) List two NSAIDs and explain their anti-inflammatory action. List two uses and two contraindications of any one of them. (5)
- 3D) Enumerate two corticosteroids and explain their immunosuppressant action. List two uses and two adverse effects of corticosteroids. (5)

4) List two examples and two uses of the following groups.

- 4A) Aminoglycosides (2)
- 4B) Anticoagulants (2)
- 4C) Antifungal agents (2)

- 4D) Antiemetics (2)
- 4E) Antihistaminics (2)

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Question Paper

Exam Date & Time: 30-Aug-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT: PSYC 204 - PSYCHOLOGY
(2016 SCHEME)
Friday, August 30, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1A) | Describe normality and abnormality, enumerating the various models. | (20) |
| 1B) | Define Psychology. Discuss any two perspective of Psychology. | (20) |
| 2A) | What is crisis? Explain the phases and interventions in detail. | (10) |
| 2B) | Define Intelligence. Explain two theories of Intelligence. | (10) |
| 3A) | Borderline personality disorder | (5) |
| 3B) | Mental Retardation | (5) |
| 3C) | Social phobia | (5) |
| 3D) | Types of illusion | (5) |
| 3E) | Schizophrenia | (5) |
| 3F) | Defense mechanisms | (5) |
| 4A) | Apraxia | (2) |
| 4B) | Problem solving | (2) |
| 4C) | Types of coping | (2) |
| 4D) | Factors affecting attention | (2) |
| 4E) | Observation method | (2) |

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