



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT / B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / B.O.T./ B.Sc. E.S.S. DEGREE
EXAMINATION - AUG/SEPT 2018

SUBJECT : ANATOMY - II

(ANAT 104; ANAT 102/BRES 102; ANAT 102/BMIT 102T; ANAT 102; ANAT 104/BOT 102; ANAT 102)
(2016 RV & 2016 SCHEME)

Monday, August 27, 2018 (10.00 - 12.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

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| 1) | Describe the arches of foot and mention their applied anatomy.
(8+2 = 10 marks) | (10) |
| 2) | Describe the radial nerve under following headings:
a) Origin
b) Root value
c) Course
d) Distribution
e) Applied anatomy
(1+1+2+5+1 = 10 marks) | (10) |
| 3A) | Popliteus muscle | (5) |
| 3B) | Biceps brachii muscle | (5) |
| 3C) | Femoral nerve | (5) |
| 3D) | Wrist joint | (5) |
| 4A) | Axillary artery | (2) |
| 4B) | Clavicle | (2) |
| 4C) | Orbicularis oculi muscle | (2) |
| 4D) | Tendocalcaneus (Achilles tendon) | (2) |
| 4E) | Cruciate ligaments of the knee joint | (2) |

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SECOND SEMESTER BPT / B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T./ B.Sc.
M.L.T. DEGREE EXAMINATION - AUG/SEPT 2018

SUBJECT : BIOCHEMISTRY / GENERAL BIOCHEMISTRY

(BIOC 102/BPT 106; BIOC 102; BIOC 102/BRES 108; BIOC 102/BMIT 106; BIOC 102; BIOC 102/BMLT
104)

(2016 RV & 2016 SCHEME)

Friday, August 31, 2018 (10.00 - 12.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

- 1) Describe the structure and synthesis of mature collagen with the help of suitable diagrams. (10)
- 2A) Describe transamination and oxidative deamination of amino acids with examples. (4)
- 2B) Explain in detail the reactions involved in the urea cycle mentioning the site and subcellular site. (6)

3) Answer the following:

- 3A) Write the reactions of synthesis of TAG. Mention the fate of TAG in liver and adipose tissue (5)
- 3B) Define emulsification and explain the process of absorption of lipids in the intestine with a suitable diagram. (5)
- 3C) Explain FIVE factors affecting basal metabolic rate. (5)
- 3D) What are dietary fibers? Explain FOUR beneficial effects of dietary fibers. (5)

4) Answer the following:

- 4A) What is a ketogenic amino acid? Give **TWO** examples (2)
- 4B) What are essential fatty acids? Give **TWO** examples. (2)
- 4C) Define endopeptidases and exopeptidases with ONE example for each. (2)
- 4D) Mention **TWO** functions of calcium (2)
- 4E) Define oxidative phosphorylation and mention **TWO** inhibitors of this process. (2)

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MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. MEDICAL IMAGING TECHNOLOGY DEGREE EXAMINATION - AUG/SEPT 2018
SUBJECT: BMIT 102 - RADIOGRAPHIC POSITIONING & TECHNIQUES - PART II
(2016 RV SCHEME)

Monday, August 27, 2018 (10.00 - 12.00)

Answer ALL the questions.

Marks: 50

Duration: 120 mins.

- 1) Explain briefly the anatomy of skull. Write a note on Landmarks and Lines of skull. (10)
- 2) Discuss in detail the radiographic projection for scoliosis series. (10)

- 3) **Discuss the following:**
 - 3A) Radiographic projection of Abdomen Dorsal Decubitus (5)
 - 3B) Radiographic projection for Stenver's view (5)
 - 3C) Ottonello Method (5)

- 4) **Write short notes on:**
 - 4A) Towne's View for Cranium (3)
 - 4B) Difference between AP and PA chest (3)
 - 4C) Radiographic projection of Neck Lateral (3)
 - 4D) Radiation protection for Paediatric x ray (3)
 - 4E) Anterior-Posterior Projection for KUB (3)

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MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT/ B.Sc. MRT/B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. MIT/ B.Sc. RRT & DT/ BOPT/ BOT/
B.Sc. E.S.S./ B.Sc. MLT DEGREE EXAMINATION - AUG/SEPT 2018

SUBJECT: PHYSIOLOGY - II

(PHYS 102/BPT 104; BMRT 102; PHYS 102; PHYS 102/BMIT 104; PHYS 102; PHYS 102/BOPT 102;
PHYS 102)

(2016 RV & 2016 SCHEME)

Wednesday, August 29, 2018 (10.00 - 12.00 Hrs.)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

- 1A) With the help of a diagram describe the mechanism of gastric acid secretion. (5)
- 1B) Describe the different types of movements of small intestine. (5)
- 2A) Describe the regulation of thyroid hormone secretion in the form of a flow chart. (5)
- 2B) Mention any five actions of thyroid hormone. (5)
- 3A) Explain the actions of testosterone (5)
- 3B) Define glomerular filtration rate. Give its normal value. Mention three factors affecting GFR. (5)
- 3C) List two functions of Basal Ganglia. Give the cause and list any two clinical features of Parkinson's disease. (5)
- 3D) Mention the site of formation, absorption and three functions of cerebrospinal fluid. (5)
- 4A) List any two functions of saliva (2)
- 4B) List any two actions of cortisol. (2)
- 4C) Mention any two functions of kidney (2)
- 4D) List any two properties of synapses. (2)
- 4E) List any two functions of thalamus. (2)

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