

# Question Paper

Exam Date & Time: 20-May-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. (RT/ MIT/EMT/BPT/CVT/RRT & DT/BOT/AOTT/ PHYSICIAN ASSISTANT/BPO) DEGREE

EXAMINATION - MAY/JUNE 2024

SUBJECT: ANA1201/ ANA1205 - ANATOMY - II  
(2020/2022 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- |     |  |      |
|-----|--|------|
| 1)  | Describe the arches of foot and mention their applied anatomy<br>(8+2 = 10 marks)  | (10) |
| 2)  | Describe the median nerve under following headings<br>A) Origin<br>B) Root value<br>C) Course<br>D) Distribution<br>E) Applied anatomy<br>(1+1+2+5+1 = 10 marks) | (10) |
| 3A) | Popliteal fossa  | (5)  |
| 3B) | Deltoid muscle   | (5)  |
| 3C) | Sciatic nerve  | (5)  |
| 3D) | Elbow joint  | (5)  |
| 4A) | Brachial artery  | (2)  |
| 4B) | Femur  | (2)  |
| 4C) | Buccinator muscle  | (2)  |
| 4D) | Median cubital vein  | (2)  |
| 4E) | Femoral sheath   | (2)  |

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# Question Paper

Exam Date & Time: 24-May-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. (NMT/RT/ MIT/EMT/BPT/BOPT/CVT/CND/RRT & DT/BOT/AOTT/ PHYSICIAN  
ASSISTANT/PFT/MLT) DEGREE EXAMINATION - MAY/JUNE 2024  
SUBJECT: BIC1201 - BIOCHEMISTRY  
(2020/2022 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define gluconeogenesis and write the reactions of gluconeogenesis from pyruvate (10)
- 2) Explain with illustrations the biosynthesis of mature collagen, emphasizing the reactions catalyzed by prolyl hydroxylase, lysyl hydroxylase, and lysyl oxidase. (10)
- 3A) Illustrate the classification of lipoproteins based on their ultracentrifugation properties. Mention the site of synthesis and function for any THREE lipoproteins. (5)
- 3B) Describe in detail the activation of fatty acid and the steps of beta oxidation in mitochondria. (5)
- 3C) Mention the RDA for dietary fibres. Explain FOUR benefits of consuming dietary fibres (5)
- 3D) Mention the RDA, sources and chemical forms of vitamin A. List FOUR features of vitamin A deficiency (5)
- 4A) Mention the normal blood levels of fasting glucose, urea, cholesterol and total bilirubin. (2)
- 4B) Write the normal level of albumin in serum and mention any TWO conditions in which its levels are altered. (2)
- 4C) List FOUR differences between DNA and RNA (2)
- 4D) Write the reaction catalysed by pyruvate dehydrogenase complex indicating the coenzymes required. (2)
- 4E) Define metabolic alkalosis. Mention TWO causes for it. (2)

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# Question Paper

Exam Date & Time: 22-May-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

**SECOND SEMESTER B.Sc. (NMT/RTT MIT/EMT/BPT/BOPT/CVT/RRT & DT/BOT/AOTT/ PHYSICIAN  
ASSISTANT/BPO/PFT/MLT/RESPIRATORY THERAPY) DEGREE EXAMINATION - MAY/JUNE 2024  
SUBJECT: PHY1201 - PHYSIOLOGY - II  
(2020/2022 SCHEME)**

**Marks: 50**

**Duration: 120 mins.**

**Answer all the questions.**

**Write brief, clear and legible answers.**

**Illustrate your answers with diagrams and flow charts wherever appropriate.**

- 1) Name the functional divisions of cerebellum. Enumerate the functions of each lobe of cerebellum. (10)  
Add a note on clinical features of cerebellar lesion.  
(2+5+3 = 10 marks)
- 2) Describe the actions of growth hormone. Explain the regulation of secretion of growth hormone. Add (10)  
a note on the cause and clinical features of gigantism  
(4+3+3 = 10 marks)
- 3A) Enumerate any FOUR functions of saliva. Add a note on Xerostomia (5)  
(4+1 = 5 marks)
- 3B) Describe the renal tubular reabsorption of glucose. (5)
- 3C) Draw a labeled diagram of the lateral spinothalamic pathway and mention any two sensations (5)  
carried by the same.
- 3D) Describe the uterine endometrial changes during menstrual cycle (5)
- 4A) List any TWO clinical features of Parkinson's disease (2)
- 4B) List any TWO properties of receptors (2)
- 4C) Enumerate any TWO functions of gall bladder (2)
- 4D) Define Renal clearance. Mention the substance used for the estimation of GFR (2)
- 4E) List the indicators of ovulation (2)

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# Question Paper

Exam Date & Time: 27-May-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

**SECOND SEMESTER BOT DEGREE EXAMINATION - MAY/JUNE 2024**  
**SUBJECT: OCT1201 - ASSESSMENTS IN OCCUPATIONAL THERAPY - I**  
**(2020 SCHEME)**

**Marks: 50**

**Duration: 120 mins.**

**Answer all the questions.**

- |     |   |      |
|-----|---|------|
| 1)  | Explain the strategies for evaluating client factors in the occupational therapy evaluation process.                            | (10) |
| 2)  | Describe the skills of effective interviewing.  | (10) |
| 3A) | Define goniometry. Using a labeled diagram, state the uses of the parts of the goniometer.<br>(1+4 = 5 marks)                   | (5)  |
| 3B) | Describe the steps for assessing the quadriceps reflex and achilles reflex.   | (5)  |
| 3C) | Explain the steps involved in manual muscle testing.  | (5)  |
| 3D) | Define 'proprioception' and 'kinesthesia'. Outline the non-standardized methods of testing for the same.<br>(2.5+2.5 = 5 marks) | (5)  |
| 4A) | Define 'care maps' and state its purpose in the occupational therapy process.<br>(1+1 = 2 marks)                                | (2)  |
| 4B) | List four types of information that constitute the occupational profile.  | (2)  |
| 4C) | Explain two-joint muscles with an example.  | (2)  |
| 4D) | List any two causes of muscle weakness.   | (2)  |
| 4E) | Describe the Moberg pick-up test and its purpose.   | (2)  |

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