

# Question Paper

Exam Date & Time: 24-Aug-2022 (10:00 AM - 11:00 AM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022  
SUBJECT: BIOC 135 - APPLIED BIOCHEMISTRY

Marks: 25

Duration: 60 mins.

Choose the single best response for the following :

1A) Which among the following serum marker is elevated in myocardial infarction? (1)

- Alanine transaminase
- Acid phosphatase
- Creatine Kinase-MB
- Gamma glutamyl transferase

1B) Which of the following is the degradation product of heme? (1)

- Bile salts
- Bilirubin
- Cholesterol
- Glucuronic acid

1C) Which among the following represents the normal pH of blood? (1)

- 5.55 to 6.05
- 6.35 to 7.05
- 7.35 to 7.45
- 7.85 to 8.25

1D) Which among the following processes involves hormone sensitive lipase? (1)

- Ketogenesis
- Lipogenesis
- Lipolysis
- $\beta$ - Oxidation

Answer all the questions.

2. Short note :

2A) Define gluconeogenesis and give the key reactions of this pathway (5)

2B) Describe the reactions of urea cycle (5)

2C) List any five thyroid function tests and give their interpretation in thyroid disorders (5)

**3. Short answers :**

3A) Describe the cause and symptoms of psoriasis. (2)

3B) List the types and functions of lipoproteins. (2)

3C) Draw the structure of immunoglobulin molecule and label its parts. (2)

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