

2024 BATCH - B. Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
FIRST YEAR – INTERNAL EXAM – III - (18.09.2025)

PAPER II – BIOCHEMISTRY AND PATHOLOGY

Time: 3 hours

Subject Code: 1402

Maximum: 100 marks

Answer all the questions

I. Elaborate on

10 x 3 = 30

1. Define BMR, its normal ranges and its factors affecting?
2. Define Hypersensitivity type 1 and 4
3. Explain Cell injury.

II. Write notes on

5 x 8 = 40

1. Balanced Diet
2. Buffers and its types
3. Write about Marasmus and Kwashiorkor
4. Serum electrolytes
5. Indicators and its types with examples
6. Apoptosis
7. Necrosis and its types
8. Influenza virus and its Pathogenesis, symptoms, diagnosis and treatment.

III. Short answers on

3 x 10 = 30

1. Define pH and Henderson Hasselbalch equation.
2. Explain RQ and SDA
3. Normality, Molarity and Molality
4. Explain the theories of acids and bases?
5. Types of gangrene
6. Define gangrene
7. Pathogenesis of reversible cell injury .
8. Name the bacteria that causes typhoid and its route of transmission.
9. Pathogenesis of candidiasis.
10. i) Range of pH scale is _____ (NEET 2021)
(a) 7 to 10 (b) 0 to 10 (c) 0 to 14 (d) 7 to 14
ii) Name out the glycoprotein spikes present in the influenza virus (NEET 2019)
a) Hemagglutinin and Neuraminidase b) Spike protein and Envelope protein
c) Glycoprotein G and Matrix protein d) Fusion protein and Receptor-binding protein
iii) Name the fungi which causes amoebiasis (NEET 2020)
a) Entamoeba histolytica b) Candida albicans
c) Aspergillus fumigatus d) Histoplasma capsulatum