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I Year B.Sc. (Nursing - Basic) Degree Examination - Feb / Mar 2012

Time: Three Hours Max. Marks: 80

Marks

PHYSIOLOGY & BIOCHEMISTRY - (Revised Scheme)

Q.P. CODE: 1677 & 1678

four answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessar

Use separate answer books for section A and section B

Q.P. Code: 1677 - Section A - PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One)

 $1 \times 10 = 10 \text{ Mark}$

- 1. Describe the visual pathway with a diagram
- 2. Describe the formation of urine

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Mark}$

- 3. Describe the extrinsic pathway for clotting
- 4. Define and give normal values of a) Expiratory reserve volume b) Vital capacity
- 5. Describe the functions of progesterone
- 6. Describe the oxygen dissociation curve
- 7. Draw and label the conducting system of the heart

SHORT ANSWERS $5 \times 2 = 10 \text{ Mark}$

- 8. Define motor unit
- 9. Name four gastro intestinal hormones
- 10. Name the centres for neural regulation of respiration
- 11. Define cardiac output
- 12. Name the sensations carried by dorsal column

Q.P. Code: 1678 – Section B – BIOCHEMISTRY (40 Marks) Use separate answer book

LONG ESSAYS (Answer any One)

 $1 \times 10 = 10 \text{ Mark}$

- 1. Describe E.M.pathway of glycolysis & discuss how much ATPs are formed during aerobic anerobic pathways
- 2. Discuss the sources, functions, daily requirements & deficiency manifestations of vitamin A

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Mark}$

- 3. Lipoproteins classification & functions
- 4. Structure & functions of Insulin
- 5. Formation & fate of ketone bodies
- 6. Cori's cycle & its significance
- 7. Metabolic acidosis

SHORT ANSWERS

 $5 \times 2 = 10 \text{ Mark}$

- 8. Beri Beri
- 9. Anion gap
- 10. Organic constituents present in urine
- 11. Iso electric pH
- 12. Essential fatty acids
