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Reg. No.....

Name.....

FIRST YEAR B.Sc. (NURSING) DEGREE EXAMINATION, APRIL/MAY 2025

Part I

Paper II—PHYSIOLOGY

[Special Supplementary (Old Scheme 2012–2015 Admission) & Last and Final Special
Mercy Chance Examinations (2007-2011 Admissions)]

Time : Two Hours

Maximum : 75 Marks

Section A

I. Choose the most appropriate answer :

1 Volume of air remaining in the lungs after a forceful expiration is called :

- (a) Residual volume. (b) Functional residual capacity.
(c) Inspiratory reserve volume. (d) Expiratory reserve volume.

2 Cretinism is due to deficiency of :

- (a) Growth. (b) Thyroid.
(c) Prolactin. (d) PTH.

3 The most potent stimulus for erythropoiesis is :

- (a) Hypoxia. (b) Alkalosis.
(c) Malnutrition. (d) Hyperventilation.

4 Intercalated disc is seen in :

- (a) Skeletal muscle. (b) Cardiac muscle.
(c) Smooth muscle. (d) All of the above.

5 Sensation carried by lateral spinothalamic tract is :

- (a) Fine touch. (b) Vibration.
(c) Pain. (d) Stereognosis.

(5 × 1 = 5 marks)

II. Fill in the blanks :

- 1 Most abundant cells in the Islets of Langerhans ———.
2 Nerve of emptying of urinary bladder is ———.
3 The name of cells secreting renin in kidney is ———.

Turn over





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4 The receptor for dim light vision is _____.

5 Heart sound produced due to closure of the aortic and pulmonary valves is _____.
(5 × 1 = 5 marks)

III. Write short notes on :

- (a) Actions of Thyroid hormone. (b) Short term regulation of blood pressure.
(c) Cell mediated immunity. (d) Transfusion reactions.
(e) Cerebrospinal fluid.

(5 × 4 = 20 marks)

IV. Describe uterine and ovarian changes occurring in the different stages of menstrual cycle. Give the hormones involved in each phase.

(5 + 2 = 7 marks)

Section B

V. Draw and label neuromuscular junction. Explain the steps involved in neuromuscular transmission. Add a note on myasthenia gravis.

(4 + 8 + 3 = 15 marks)

VI. Describe the regulation of respiration. Add a note on hypoxia. (8 + 3 = 11 marks)

VII. Write briefly on any *four* :

- (a) Peristalsis. (b) Functions of middle ear.
(c) Glomerular filtration rate. (d) Synapse.
(e) Functions of liver.

(4 × 3 = 12 marks)

