

Q.P. Code :01253

[Time: Three Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B:**
- 1. All questions are compulsory.**
 - 2. Figures to right indicates full marks**
 - 3. Draw neat, labelled diagrams wherever necessary.**

- Q.1 a) Answer the following: (12 Marks)**
- Explain give functions of oligodendrocytes.
 - Give the functions of larynx.
 - Describe the functions of glucagon.
 - What do you mean by mania?
 - Give an account a Goiter.
- b) Answer the following: (03 Marks)**
- _____ neuroglia is responsible for myelination of PNS neurons.
 - Write a note on iris.
 - What is cerebral hypoxia?
- Q.2 a) Answer any two of the following: (08 Marks)**
- Explain the mechanism of cellular necrosis.
 - Enlist the causes of cell injury and explain any one in detail.
 - Explain metastasis.
- b) Answer any one of the following: (03 Marks)**
- Explain the biological effects of x-rays
 - What are the consequences of exposure to nuclear radiation.
- Q.3 a) Answer any two of the following: (08 Marks)**
- Give the classification of neurons.
 - Draw a well labelled diagram of cerebrum showing functional areas.
 - What are the functions of basal nuclei and cerebellum?
- b) Write a short note on (any one): (03 Marks)**
- Stroke
 - Depression

Turn over

Q.4a) Answer **any two** of the following:

(08 Marks)

- i) Explain physiology of voice production.
- ii) Explain the structure of lungs.
- iii) Give a detail account of pneumonia.

b) Answer **any one** of the following:

(03 Marks)

- i) Explain pathophysiology of Emphysema.
- ii) Write a note on bronchitis

Q.5a) Answer **any two** of the following:

(08 Marks)

- i) Discuss the physiological role of calcitonin & parathyroid hormone.
- ii) Define and classify hormones.
- iii) Explain mechanism of hormonal action.

b) Write a note on **any one** of the following:

(03 Marks)

- i) Pituitary dwarfism
- ii) Diabetes mellitus.

Q.6a) Attempt **any one** of the following:

(04 Marks)

- i) Draw a well labelled diagram of human ear.
- ii) Give the functions of skin.

b) Answer **any one** of the following:

(04 Marks)

- i) Describe the major responses of the body to the stimulation by ANS.
- ii) Give the classification of cholinergic & adrenergic receptors.

c) Answer **any one** of the following:

(03 Marks)

- i) Write a note a taste adaptation.
- ii) Explain the working and functions of ear ossicles.