

Q.P. Code :01221**[Time: Three Hours]****[Marks:80]**

Please check whether you have got the right question paper.

- N.B:
1. All the question are compulsory.
 2. Figure to the right indicate full marks.
 3. Draw neat, labelled diagrams wherever necessary.

Q.1 (a) Answer the following : **(16)**

- i. Give the composition & functions of CSF.
- ii. Give the functions of nose.
- iii. Mention the functions of aldosterone.
- iv. What is neoplasia?
- v. Comment on gigantism.
- vi. Draw a well labelled diagram of tongue.
- vii. What is depression?
- viii. What do you know about bronchitis?

Q.1 (b) Answer the following : **(4)**

- i. & hormones are involved in calcium homeostasis.
- ii. Give the functional classification of neurons.
- iii. What is myopia?
- iv. Define tidal volume.

Q.2 (a) Answer the following :

- i. Write a short note on **(any one)** : **(4)**
 - i. Cellular adaption
 - ii. Necrosis
- ii. Differentiate between Benign & Malignant tumors. **(4)**

OR

- ii. Explain carcinogenesis.

(b) Discuss the biological effect of (any one) : **(4)**

- i. X-rays
- ii. U.V. radiation

Q.3 (a) Answer any two of the following : **(8)**

- i. Discuss the neuroglia of CNS.
- ii. Explain the functions of medulla oblongata.
- iii. Enlist & give the functions of neurotransmitters.

Q.P. Code :01221(b) Discuss the pathophysiology of **(any one)** :

- i. Epilepsy
- ii. Alzheimer's disease

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

- i. Explain the mechanism of respiration.
- ii. Describe the structure of pharynx.
- iii. Discuss the regulation of respiration.

(8)(b) Write short note on the **any one** of the following :

- i. Asthma
- ii. Bronchitis

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

- i. Describe the physiological effects of glucocorticoids.
- ii. Discuss Renin Angiotensin Aldosterone system.
- iii. Explain the role of hormones of Adenohypophysis.

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

- i. Write a note on Thyrotoxicosis.
- ii. Differentiate between Type I & Type II Diabetes mellitus.

(4)**Q.6** (a) Answer **any two** of the following :

- i. Give the composition & functions of lacrimal fluid.
- ii. Draw a well labelled diagram of skin.
- iii. What is light & dark adaption?

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

- i. Differentiate between thoracolumbar & craniosacral outflow.
- ii. Give the role of sympathetic & parasympathetic nervous system on following organs :
 - a) Eye
 - b) Skin
 - c) GIT
 - d) Heart

(4)