Q.P. Code :01252

[Marks: 70]

Turn over

		 Figures to the right indicates full marks. Draw neat, Labelled diagrams wherever necessary 	
Q.1	a) i) ii) iii) iv) v)	Answer the following: Define the terms 1) Vital Capacity 2) Residual volume. Enlist the hormones secreted by posterior pituitary gland with their biological role. What is diabetes insipidus? Enlist the neuroglia cells of CNS with functions. Give the signs and symptoms of Parkinson's disease.	(12 Marks)
	vi) b) i) ii)	Discuss in short light & dark adaptation. Answer the following: Respiratory centers are situated in are the inhibitory neurotransmitters. Name the bones of auditory ossicles.	(03 Marks)
Q.2	a) i) ii) iii)	Answer the following (Any Two): Compare benign & malignant tumour. Discuss in detail cellular adaptations. Explain the etiology of cancer.	(08 Marks)
	b) i) ii)	Discuss the biology effects of (Any one): UV radiation Nuclear radiation	(03 Marks)

[Time: Three Hours]

1. All questions are compulsory

N.B:

Please check whether you have got the right question paper.

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Q.3 a) Answer the following (**Any Two**): (08 Marks) Explain the process of generation of action potential. i) Discuss the structure & functions of brain stem. ii) Describe the functional areas of cerebrum. iii) b) Answer the following (Any one): (03 Marks) Write a note an Epilepsy. i) Discuss the pathophysiology of Anxiety. ii) **Q.4** a) Answer the following (Any Two): (08 Marks) i) Explain external & internal respiration. Discuss the mechanism involved in control of respiration. ii) iii) Draw a neat, labelled diagram of bronchial tree. b) Write a short note on (Any one): (03 Marks) i) Pneumonia **Bronchitis** ii) Answer the following (Any Two): **Q.5** a) (08 Marks) Discuss the various types of anterior pituitary cells with physiological i) roles. Describe the physiological role of thyroid hormones. ii) iii) Write a note on renin-angiotensin-aldosterone system. b) Answer the following (Any One): (03 Marks) Discuss the effect of hyposecretion of anterior pituitary hormones on i) human body. ii) Write a short note on Goiter.

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Q.6 a) Answer the following (**Any one**):

(04 Marks)

- i) Explain the anatomical features of eye with the help of a diagram.
- ii) Discuss the physiology of smell.
- b) Answer the following (Any One):

(04 Marks)

- i) Differentiate between somatic & autonomic nervous system.
- ii) Write the effect of parasympathetic & sympathetic nervous system on following organ.
 - 1)Heart 2)Lungs 3)Sweat gland 4)Eye
- C) Answer the following (Any One):

(03 Marks)

- i) Discuss the structure of taste bud.
- ii) Write the functions of skin.