Q.P. CODE: 38121

(Time: 3 Hours) (To	tal marks: 80)
<b>N.B.:</b> (1) <b>All</b> questions are <b>compulsory</b>	
(2) Figures to right indicate full marks	
Q 1 A. Answer the following:	16 M
i) Enlist the vital centers located in medulla oblangata.	
ii) Enumerate the cells and secretions of pancreatic islets	
iii) Define: a) Vital capacity b) Tidal volume	
iv) What is cerebral hypoxia?	
v) Write a note on iris.	
vi) Give the symptoms of myxoedema.	
vii) Define cell injury.	
viii) Enlist the causes of COPD	
Q 1 B. Answer the following:	4 M
i) Name the auditory ossicles.	
ii) enzyme is responsible for degrad	ation of adrenaline.
iii) What is saltatory conduction of nerve impulse.	
iv) Give the functions of nose.	
Q 2 A. Answer <u>any two</u> of the following	8 M
i) Elaborate on types of cellular adaptations.	
ii) Differentiate between apoptosis and necrosis.	
Q 2 B. Answer <u>any one</u> of the following	4 M
i) Give an account on carcinogenesis.	
ii) Discuss different carcinogens.	
Q 2 C. Answer <u>any one</u> of the following:	4 M
i) Explain the harmful effects of X rays.	
ii) Give the biological effects of nuclear radiation.	
Q 3 A. Answer <u>any two</u> of the following:	8 M
i) Give the functions of hypothalamus.	
ii) Draw a well labeled diagram of cerebrum. Add a note	on blood brain barrier.

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iii) Describe the neuroglia of the CNS.	
Q 3 B. Write a short on <u>any one</u> of the following:	4 M
i) Parkinson's disease	566
ii) Schizophrenia	10 F
Q 4 A. Answer <u>any two</u> of the following:	8 M
i) Describe the structure of larynx.	
ii) Explain the control and regulation of respiration.	
iii) Discuss the mechanism of respiration.	3 8 V
Q 4 B. Write a short note on <u>any one</u> of the following:	4 M
i) Asthma	
ii) Emphysema	200
Q 5 A. Answer <u>any two</u> of the following:	8 M
i) Explain formation, storage and release of thyroid hormones.	
ii) Write a note on renin, angiotensin and aldosterone system.	
iii) What are the different trophic hormones? Explain their physiological actions.	
Q 5 Answer any one of the following:	4 M
i) Differentiate between type I and type II diabetes mellitus.	
ii) Discuss the pathophysiology of Cushing's syndrome.	
Q 6 A. Answer <u>any two</u> of the following:	8 M
i) Discuss in detail accessory structure of eyes.	
ii) Explain physiology of equilibrium.	
iii) What are the functions of skin?	
Q 6 B. Answer any one of the following:	4 M
i) Discuss neurotransmitters and receptors autonomic nervous system.	
ii) Compare and contrast between adrenergic and cholinergic system.	

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