Q.P. Code :01222

[Marks:80]

		Please check whether you have got the right question paper. N.B: 1. All question are compulsory. 2. Figure to the right indicate full marks.						
				t, labelled diagrams		essary.		
Q.1	i. ii. iii. iv. v. vi.	Answer the following: Write down the effect of sympathetic and parasympathetic nervous system on the heart and eyes. Give the functions of: a) Pharynx b) Alveoli Enlist the hormones secreted by thyroid gland with functions. What is cellular atrophy? Give the cardinal symptoms of Graves' disease. Comment on auditory ossicle. Define emphysema & bronchitis. Match the following:					(16)	
			1. Alzho	0, 5, 0, Vo (0, 4, 0, V	b. c.	Pathological event Degeneration of dopaminergic neurons Imbalance between excitatory & inhibitor neurotransmitter Deposition of B-amyloid plaque Low serotonin level		
	i. ii. iii.	 Answer the following:hormone is responsible to decrease blood calcium level. Myelin sheath around CNS axons is formed & maintained by neuroglial cells. What is rhodopsin? State true or false: Inspiratory Capacity is the maximum volume of air which can be moved into and out of the lungs. 						
Q.2	900			optosis & necrosis.			(4)	
		OR Discuss the causes of cells injury.						
		Discuss the pathogenesis of cancer. OR Explain the phenomenon of metastasis.						
	(b)		vn the biologic Nuclear radiation	al effects of (any one on 2.	e) X-ray radiati	on	(4)	

[Time: Three Hours]

Q.3	(a)	Answer the following (any two)	(8)			
	i.	Draw & explain the internal structure of spinal cord.				
	ii.	Discuss the functions of hypothalamus.				
	iii.	Explain the phases involved in generation of action potential.				
	(b)	Discuss the pathophysiology of (any one):	(4)			
		i) Alzheimer's disease	455			
		ii) Parkinson's disease	10 00 C			
Q.4	(a)	a) Answer the following (any two):				
	i.	Draw a neat, labelled diagram of respiratory system.	5			
	ii.	Discuss the factors affecting respiration.				
	iii.	Outline the location & functions of following in respiration : 1. Larynx 2. Trachea				
	(b)	Write a short note on (any one):	(4)			
		i. Pneumonia				
		ii. Asthma				
Q.5	(a)	a) Answer the following (any two):				
	i.	. Give the physiological roles of gonadal hormones.				
	ii.	Describe the anatomy of pancreas. How is blood glucose level maintained?				
	iii.	Discuss the structure of adrenal gland. Give the functions of its hormones.				
	(b)	Write a short note on (any one):	(4)			
		i) Hyperthyroidism				
		ii) Pituitary dwarfism & gigantism				
Q.6	(a)	Answer the following (any two):	(8)			
	i.	Enlist the accessory organs of the eye with physiological functions.				
	ii.<	Draw a neat, labelled diagram of internal ear.				
		Give the physiology of gustation.				
	(b)	Answer the following (any one):	(4)			
	37.16	Differentiate between cholinergic & adrenergic nervous system.				
	îi.	Discuss the neurotransmitters & receptors of ANS.				