## Subg-APP-II 27-12-15

QP Code: 21788

[ Total Marks: 70 (3 Hours) N.B. (1) All questions are compulsory. (2) Figures to right indicate full marks. (3) Draw neat labelled diagrams wherever necessary. 12 1. (a) Answer the following:-(i) Explain (2) Total lung capacity (1) Tidal volume (ii) Give difference between senery and motor neuron (iii) Enlist parts of brainstem (iv) Give etiology of type-I diabetes (v) Explain different types of epilepsy (vi) Enlist various layers of skin (b) Fill in the blanks. 3 (i) \_\_\_\_\_ layer of adrenal gland produce Epinephrine and Norepinephrine. (ii) \_\_\_\_\_ is the link between endocrine and nervous system. (iii) Rodopsin is formed by \_\_\_\_\_ and \_ 2. (a) Answer any two of the following:-8 (i) Write a note on hallmarks of cancer (ii) Enlist causes of cell injury and explain any one in detail. (iii) Write a note on celluler adaptation. (b) Answer any one of the following :-3 (i) Explain biological effects of X-ray radiation. (ii) Explain harmfull effects of UV radiation. 3. (a) Answer any two of the following:-(i) Draw neat labelled diagram of reflex are (ii) Enlist various areas of cerebrum? Write a note on visual area. (iii) Enlist twelve pairs of cranial nerves. (b) Write short note on any one of the following:-3 (i) Parkinson's disease

(ii) Stroke

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4.	(a)	Answei	rany two of the following:	8
		(i)	Draw neat labelled diagram of bronchial tree	
		(ii)	Write a note on external respiration	
		(iii)	Give pathophysiology of emphysema.	
	(b)	Write s	hort note on any one of the following:-	3
		(i)	Explain factors affecting gas exchange	
		(ii)	Discuss in detail transport of oxygen by blood.	
5.	(a)	Answei	any two of the following:-	8
		(i)	Explain process of synthesis, storage and release of thyroid hormon	
		(ii)	Discuss in detail hormones of pancreatic islet	
		(iii)	Explain in detail role of hormones of posterior pituitary	
	(b)	Write s	hort note on any one of the following:-	3
		(i)	Acromegaly	
		(ii)	Goiter.	
6.	(a)	Answer	any one of the following:-	4
		(i)	Explain physiology of hearing.	
		(ii)	Explain in detail physiology of olfaction	
	(b)	Answer	any one of the following :-	4
		(i)	Write a note on various types of neurotransmitters	
		(ii)	Discribe effect of stimulation of sympathetic and parasympathetic devision	
it.			on blood pressure and eye.	.,
	(c)	Answer	any one of the following:-	3
		(i)	Explain physiology of equilibrium	
		(ii)	Draw neat labelled diagram of eye showing internal parts.	