


- N.B.** (1) All questions are compulsory.
(2) Figures to right indicate full marks.
(3) Draw neat labelled diagrams wherever necessary.

1. (a) Answer the following :- 12
- (i) Enlist the cells of pancreas which are responsible for endocrine secretions along with their secretions.
 - (ii) Draw a neat labelled diagram of taste buds
 - (iii) Define : (i) Tidal Volume (2) Minute ventilation
 - (iv) Define oncogenes.
 - (v) Give functions of Cerebro spinal Fluid
 - (vi) Name the muscles involved in constriction and dilation of pupil along with the mechanism.
- (b) Answer the following :- 3
- (i) _____ receptors are responsible for vision in dim light.
 - (ii) True or False :-
 T_3 is more potent than T_4 .
 - (iii) Give structural classification of neuron.
2. (a) Answer any two of the following :- 8
- (i) Differentiate between benign and malignant tumor.
 - (ii) Describe different types of cell injuries.
 - (iii) Explain the cytological change in cancer cells.
- (b) Answer any one of the following :- 3
- (i) Define radioactivity and explain biological effects of nuclear radiation.
 - (ii) Describe the factors affecting biological effects of radiations.
3. (a) Answer any two of the following :- 8
- (i) Draw a neat labelled diagram of synapse and explain removal of neurotransmitter from synapse.
 - (ii) Explain the internal anatomy of spinal cord.
 - (iii) Describe general components of reflex arc with the help of a neat labelled diagram. 

- (b) Write short note on any **one** of the following :- 3
- (i) Depression
 - (ii) Parkinsonism.
4. (a) Answer any **two** of the following :- 8
- (i) Explain the factors affecting pulmonary ventilation.
 - (ii) Explain CO₂ (Carbon-di-oxide) transport in detail.
 - (iii) Explain the role of respiratory center in control of respiration.
- (b) Write short note on any **one** of the following :- 3
- (i) Chronic Bronchitis
 - (ii) Respiratory Acidosis.
5. (a) Answer any **two** of the following :- 8
- (i) Write a short note on hormones of anterior pituitary lobe.
 - (ii) Explain how RAA (Renin Angiotensin Aldosteron) system regulates Aldosteron Secretion.
 - (iii) Explain the regulation of blood sugar level by insulin and glucagon.
- (b) Write short note on any **one** of the following :- 3
- (i) Compare and contrast type I and type II Diabetes Mellitus.
 - (ii) Grave's Disease.
6. (a) Answer any **one** of the following :- 4
- (i) Draw a neat labelled diagram of internal anatomy of eyeball.
 - (ii) Enlist different types of papillae. Explain physiology of gustation.
- (b) Answer any **one** of the following :- 4
- (i) Write short note on different types of neurotransmitters.
 - (ii) Compare and contrast sympathetic and parasympathetic nervous system.
- (c) Answer any **one** of the following :- 3
- (i) Explain physiology of olfaction.
 - (ii) Describe functions of skin.
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Course: F.Y. B.PHARM (SEM II)(CBSGS) (prog 534)

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Correction:

Question number 3 a total marks to be read as **8 instead of 8 plus 3**

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