

FIRST YEAR - SEM - II

APP - II - 2015-2016

~~April 16~~

APP - II
First Half 2016
Sem II

QP Code : 525302

(3 Hours)

[Total Marks : 70

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

1. (a) Answer the following : 12
 - (i) Name the secretions of Adrenal glands.
 - (ii) Define - (1) Vital capacity
(2) Inspiratory reserve volume
 - (iii) What is pituitary dwarfism?
 - (iv) Write a note on blood brain barrier.
 - (v) Give the functions of lacrimal fluid.
 - (vi) What are the signs and symptoms of Schizophrenia.
1. (b) Answer the following : 3
 - (i) _____ deficiency causes diabetes insipidus.
 - (ii) True or False :-
Pupil controls the amount of light entering the eye.
 - (iii) Give the functions of ependymal cells in the brain.
2. (a) Answer any two of the following : 8
 - (i) Discuss the causes of cell injury.
 - (ii) Explain the mechanism of genesis of cancer.
 - (iii) Write a note on Apoptosis.
- (b) Answer any one of the following : 3
 - (i) Explain harmful effects of UV radiation
 - (ii) Describe the biological effects of Nuclear radiation.
3. (a) Attempt any two of the following : 8
 - (i) With the help of neat labelled diagram explain the structure of neuron.
 - (ii) Give the functions of Hypothalamus.
 - (iii) Explain different phases of action potential.
- (b) Write a short note on (any one) 3
 - (i) Epilepsy
 - (ii) Parkinsonism
4. (a) Answer any two of the following : 8
 - (i) Explain control and regulation of respiration.
 - (ii) Write a note on Larynx.
 - (iii) Give a detailed account on Asthma.

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- (b) Answer **any one** of the following : 3
- (i) Draw a neat labelled diagram of respiratory system.
 - (ii) Write a note on pneumonia.
5. (a) Answer **any two** of the following : 8
- (i) Explain the synthesis, storage and release of thyroid hormones.
 - (ii) Describe the role of thyroid and parathyroid gland in calcium homeostasis.
 - (iii) What are the different hormones of pancreatic islets. Give their physiological role.
- (b) Write short note on **any one** of the following 3
- (i) Hypothyroidism
 - (ii) Cushing's syndrome.
6. (a) Attempt **any one** of the following : 4
- (i) Explain the role of skin in maintenance of body temperature.
 - (ii) Discuss the physiology of equilibrium.
- (b) Answer **any one** of the following : 4
- (i) Describe the neurotransmitters and receptors involved in autonomic responses.
 - (ii) Describe the preganglionic and post ganglionic neurones of ANS.
6. (c) Answer **any one** of the following : 3
- (i) Write a note on Rods and cones.
 - (ii) Draw a neat labeled diagram of tongue and taste bud.
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