



ND-1907000101030002

First Year B.H.M.S. Examination

February - 2022

Physiology and Biochemistry : Paper-2

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book. Name of the Examination : First Year B.H.M.S. Name of the Subject : Physiology and Biochemistry : Paper-2 Subject Code No. : 1 9 0 7 0 0 0 1 0 1 0 3 0 0 0 2 Section No. (1, 2,.....): 1&2	Seat No.: [][][][][][][] Student's Signature
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- (2) Write in neat handwriting.
- (3) Figures to the right indicate full marks.
- (4) Write both section separately.

Section-I

- 1 Discuss the composition, formation, circulation and functions of CSF. Add note on Blood Brain Barrier. 15

OR

Describe the functions of Hypothalamus in detail. 15

- 2 Define Deglutition. Describe in detail about stages of deglutition with its applied physiology. 15

OR

- (1) Write in detail functions and applied physiology of liver 8

- (2) Embden-Meyerh of pathway. 7

- 3 Write short notes on (Any three) 15
- (a) Classification & Functions of Carbohydrate.
 - (b) Structure of Neuron.
 - (c) Give note on Gastric Juice composition & functions.
 - (d) Organ of Corti.
 - (e) Neat labelled diagram of Optic Pathway.

- 4 Answer the following. 5
- (1) Ptyalin is Present in _____
 - (a) stomach
 - (b) small intestine
 - (c) liver
 - (d) mouth
 - (2) Succus entericus contain _____ Enzyme for digestion of Maltose.
 - (3) Which of the following structure at a synapse has the neurotransmitter ?
 - (a) Schwann cells
 - (b) Synaptic cleft
 - (c) Synaptic knobs
 - (d) Synaptic vesicles
 - (4) What do wernickes and Brocas regions of the brain affect ?
 - (a) Olfaction
 - (b) Vision
 - (c) Speech
 - (d) memory
 - (5) What is gluconeogenesis ?

Section-II

- 5 Give one Classification of Hormone. Describe 15
Mechanism of Hormone secretion and Different mechanism of action of hormone.

OR

- 5 Enumerate secretions responsible for calcium homeostasis. 15
Discuss physiology of parathyroid hormones.

- 6** Describe the process of spermatogenesis, describe structure of sperm with figure. **15**

OR

Write :

- (A) Define menstrual cycle. Describe ovarian changes occur during menstrual cycle. **8**
- (B) Describe physiology of placenta. **7**
- 7** Write short notes on : (Any three) **15**
- (a) Dwarfism and Cretinism
 - (b) Difference between IDDM & NIDDM
 - (c) Essential Amino acids
 - (d) IUCD
 - (e) Vitamin-K
- 8** Write the following **5**
- (a) Name the hormones secreted by gonads.
 - (b) Scurvy occurs due to deficiency of which vitamin ?
 - (c) What is enzyme ?
 - (d) Define menopause.
 - (e) What do you mean by Glycolysis ?
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