



MN-4003

First Year M. B. B. S. (Repeater) Examination

December - 2013

Physiology : Paper - I

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांश देव निशानोंवाणी विगतो उत्तरवही पर अवश्य लगवनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :

FIRST YEAR M. B. B. S. (REPEATER)

Name of the Subject :

PHYSIOLOGY : PAPER - 1

Subject Code No. : 4 0 0 3

Section No. (1, 2,.....) : 1&2

Seat No. :

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Student's Signature

(2) Answer MCQ in a provided separate answer sheet

(3) Answer precisely & draw necessary diagrams

SECTION - 1

Ques 1 Explain in brief (any 3):

(6)

1. Vital capacity
2. Frank-starling's law
3. Myasthenia gravis
4. Aneamic hypoxia

Ques 2 Write short notes on (any 3):

(15)

1. Cardiac output $3+3$
2. ECG $5+4+4=8$
3. Structure & function of Mitochondria
4. Active transport

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[Contd...

SECTION -2

Ques 3 Describe the stages of Erythropoiesis & its regulation. (10)

Ques 4 Write notes on: (9)

1. Functions of Kidneys
2. Juxta glomerular apparatus(JGA)
3. Mechanism of HCl secretion in stomach
4. Functions of gallbladder

Ques 5

- 1) The organelle for synthesis of protein in a cell is
 - a) Nucleus
 - b) Ribosomes
 - c) Mitochondria
 - d) Lysosome
- 2) The First heart sound is produced by
 - a) Opening of semilunar valve
 - b) Closure of semilunar valves
 - c) Opening of AV VALVE
 - d) Closure Of AV valve
- 3) Cell mediated immunity is mediated by
 - a) Macrophages
 - b) T-lymphocytes
 - c) B-lymphocytes
 - d) Neutrophils
- 4) The muscle protein that binds with calcium to start skeletal muscle contraction is
 - a) Actin
 - b) Myosin
 - c) Troponin-C
 - d) Tropomyosin
- 5) Hemophilia A is caused by deficiency of following clotting factor
 - a) Factor II (2)
 - b) Factor V (5)
 - c) Factor VIII (8)
 - d) Factor X (10)
- 6) Pernicious anaemia is due to deficiency of
 - a) Vitamin B12
 - b) Folic acid
 - c) Iron
 - d) Vitamin C

- 7) Normal GFR value is
- a) 125 ml/min
 - b) 140 ml/min
 - c) 180 ml/min
 - d) 90 ml/min
- 8) Peripheral chemoreceptors for regulation of respiration are situated in
- a) Carotid & aortic body
 - b) Pons
 - c) Medulla
 - d) Diaphragm
- 9) Pepsinogen is secreted by :
- a) Stomach
 - b) Pancreas
 - c) Small Intestine
 - d) Large Intestine
- 10) Normal Duration of Cardiac Cycle is:
- a) 0.4 seconds
 - b) 0.6 seconds
 - c) 0.8 seconds
 - d) 1.0 seconds
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1)
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First Year M. B. B. S. (Repeater) Examination

December - 2013

Physiology : Paper - II

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.	Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Examination : FIRST YEAR M. B. B. S. (REPEATER)	Student's Signature
Name of the Subject : PHYSIOLOGY : PAPER - 2	
Subject Code No. : 4 0 0 4 Section No. (1, 2,.....) : 1&2	

(2) Answer MCQ in a provided separate answer sheet

(3) Answer precisely & draw necessary diagrams

SECTION -1

Ques 1 Explain in brief (any 3):

(6)

1. Saltatory Conduction
2. Hormones of posterior Pituitary gland
3. Photoreceptor
4. Ovulation

Ques 2 Write short notes on (any 3):

(15)

1. Types of Sleep
2. Hyperthyroidism
3. Properties of Synapse
4. Layers of retina

SECTION -2

Ques 3 Discuss the structure & functions of Hypothalamus. (10)

Ques 4 Write notes on (any3): (9)

1. Changes occurring in female at the time of Puberty
2. Spermatogenesis
3. Functions of Insulin
4. Functions of Sympathetic nervous system

Ques-5 MCQS:

1)The structure present in the internal ear:

- a)Eustachian tube
- b)Ear Ossicles
- c)Tensor Tympani and Stapedius
- d)Organ of Corti

2)Fastest Conducting nerve fibers are:

- a) $A\alpha$
- b) $A\beta$
- c) B
- d) C

3) The sensory fibers from taste buds in anterior 2/3rd of the tongue are carried by:

- a)VII cranial nerve
- b)VIII cranial nerve
- c)IX cranial nerve
- d)X cranial nerve



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First Year M. B. B. S. Examination

June / July - 2013

Physiology : Paper - I

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांश देव निशा-नीवाणी विगतो कतरवदी पर अवश्य बभनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
FIRST YEAR M. B. B. S.

Name of the Subject :
PHYSIOLOGY : PAPER - 1

Subject Code No. : 4 0 0 3 Section No. (1, 2,.....) : 1&2

Seat No. :

Student's Signature

- (2) Answer each section in separate answer sheet.
(3) Keys of MCQs must be marked with black ballpoint pen only
(4) Write precisely and draw wherever necessary
(5) Use only blue pen and/or color pencils.

SECTION - I

- 1 Write briefly : (any three) 6
(a) Composition and functions of surfactant
(b) Factors affecting diffusion across respiratory membrane
(c) Effects of hypoxia on breathing
(d) Explain inspiratory ramp.
- 2 Short essays : (any three) 15
(a) Conduction pathways for cardiac impulse
(b) Factors affecting blood pressure
(c) Fate of hemoglobin
(d) Function of T lymphocyte

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[Contd...

SECTION - II

- 3 Depict Neuromuscular junction. Describe the Steps involved 10
in Excitation-Contraction Coupling in the Skeletal Muscle.
- 4 Write notes on : (any three) 9
- (a) Types of nephron and its structure
 - (b) Control of gastric secretion
 - (c) Formation and function of bile acids
 - (d) Factors affecting renal blood flow.