



Date of issue : Centre :
 Sup. Sign. : Seat No. :

PR-4003-O
First Year M. B. B. S. Examination
 June / July - 2014
Physiology : Paper - I

Time : 10 Minutes] [Total Marks : 10

OBJECTIVE QUESTIONS

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book. Name of the Examination : <input type="text" value="FIRST YEAR M. B. B. S."/> Name of the Subject : <input type="text" value="PHYSIOLOGY : PAPER - I"/> Subject Code No. : <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="3"/> Section No. (1, 2,.....) : <input type="text" value="Nil"/>	Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Student's Signature
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- (2) Mark the most appropriate choice with black ball pen for the following MCQs in separate OMR sheet provided.
- (3) Each correct entry credits one mark. No deduction of marks for incorrect entry.

Q. 5 MCQs :

1. Caisson's disease is also known as
 - a. Dysbarism
 - b. Decompression sickness
 - c. Bends
 - d. All of the above
2. A height in excess of.....meters is defined as high altitude.
 - a. 500
 - b. 1000
 - c. 3000
 - d. 10000

3. Gastric emptying is influenced by
 - a. Increased intra gastric pressure
 - b. Acidity in first part of duodenum
 - c. Osmolarity of gastric chime entering duodenum
 - d. All of above
4. Cardiac muscle is not tetanisable because it has
 - a. Specialised conductive tissues
 - b. Intercalated disc
 - c. Long refractory period
 - d. AV nodal delay
5. Sympathetic stimulation to the heart would cause following effects
 - a. Positive chronotropic & inotropic
 - b. Positive inotropic & negative dromotropic
 - c. Negative bathmotropic & positive chronotropic
 - d. Negative chronotropic & positive inotropic
6. The most important mechanism in balancing the output of the two sides of the heart is
 - a. Marey's reflex
 - b. Bainbridge effect
 - c. Laplace effect
 - d. Frank-Starling effect
7. GFR can be increased by
 - a. Increased arterial blood pressure
 - b. Increase plasma protein concentration
 - c. Efferent arteriolar dilation
 - d. Afferent arteriolar constriction
8. Each act of swallowing is associated with
 - a. Stoppage of breathing
 - b. Increased heart rate
 - c. Approximation of vocal cord
 - d. All of the above
9. Which of the following is not a calcium binding protein
 - a. Troponin
 - b. Calmodulin
 - c. Calsequetrin
 - d. tropomyosin
10. Rheobase is defined as
 - a. Minimum time required to excite the tissue
 - b. Minimum voltage required to excite the tissue
 - c. Minimum voltage required to excite the tissue when double than the chronaxie is applied
 - d. Minimum time required to excite the tissue when double voltage is given



PR-4004

First Year M. B. B. S. Examination

June / July - 2014

Physiology : Paper - II

Time : 1 Hour & 50 Minutes]

[Total Marks : 40

Instructions :

(1)

नीचे दशांश देव निशांनीवाणी विगतो उत्तरयदी पर अवश्य बजवी. Fill up strictly the details of signs on your answer book.	Seat No. : □ □ □ □ □ □ □ □
Name of the Examination : FIRST YEAR M. B. B. S.	Student's Signature
Name of the Subject : PHYSIOLOGY : PAPER - 2	
Subject Code No. : 4 0 0 4 Section No. (1, 2,.....) : 1&2	

- (2) Write answers separately for each section in different supplementary.
- (3) Answer precisely and draw diagrams wherever essential.
- (4) All five questions are mandatory. (Compulsory to answer)

SECTION - 1

1. Write briefly : (any three) 6
 - (a) Decerebrate Rigidity
 - (b) Spinal Shock
 - (c) Syndrome of Inappropriate Anti Diuretic Hormone
 - (d) Differences between somatic and autonomic nervous system
2. Short Essays : (any three) 15
 - (a) Oestrogen: sources and actions in both male & female
 - (b) Ovarian cycle
 - (c) Hormonal regulation of blood glucose
 - (d) Myoedema

SECTION -- 2

3. Discuss postural reflexes 10
4. Write notes on : (any three) 9
 - (a) Otolith organs
 - (b) Refractory errors
 - (c) Photoreceptors
 - (d) Olfactory pathway

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PR-4004
First Year M. B. B. S. Examination
June / July - 2014
Physiology : Paper - II

Time : 1 Hour & 50 Minutes (Total Marks : 80)

Instructions :

(1)

Write your name and roll number in the space provided below. Do not write in the spaces reserved for the invigilator.

Roll No. _____

PHYSIOLOGY PAPER - II

FIRST YEAR M. B. B. S.

June / July 2014

Subject Code No. 4004

Page No. _____

- (2) Write answers separately for each section in different supplements.
- (3) Answer briefly and draw diagrams wherever essential.
- (4) All five questions are compulsory. (Compulsory to answer)

SECTION - I

1. Short essays : any three (10)
- (a) Oestrogen source and actions in both male & female
 - (b) Ovarian cycle
 - (c) Humoral regulation of blood glucose
 - (d) Myocardium
2. Short essays : any three (10)
- (a) Diabetes Mellitus
 - (b) Spinal shock
 - (c) Functions of histamine, Angiotensin II and Thrombin
 - (d) Difference between somatic and autonomic nervous system

SECTION - II

3. Discuss gustatory reflexes (10)
4. Write notes on : any three (10)
- (a) Growth curve
 - (b) Endocrine Glands
 - (c) Photoreception
 - (d) Olfactory pathway