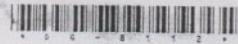




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**HOMOEOPATHIC**  
MEDICAL COLLEGE & HOSPITAL  
DEPARTMENT  
OF

**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



DG-8112

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

April / May - 2015

Physiology & Bio-chemistry : Paper-II

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Draw figure wherever necessary.  
(2) Write each section in separate answer book.

**SECTION - I**

- 1 Describe physiological action of hormones secreted from posterior pitutary gland. 15
- 2 Describe tract of gall-burdach. 15
- 3 Write short notes : (any four) 20
  - (1) Fatigue
  - (2) Puberty
  - (3) Testesteron
  - (4) Classification of enzymes
  - (5) Superfiscial reflexes.

**SECTION - II**

- 4 Describe composition and functions of salivary juice ? 15
- 5 Describe  $\beta$ -oxiadation of fatty acids. 15

DG-8112 ]

1

[ Contd...



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6 Write short notes : (any four)

- (1) Functions of bile
- (2) Vit-C
- (3) Cholestrol
- (4) Specific dynamic action of food-stuffs
- (5) Biological oxidation.

20



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**BH-8112**

Seat No. \_\_\_\_\_

**First Year B.H.M.S. Examination**

**July - 2015**

**Physiology & Biochemistry : Paper - II**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

- (1) Write each section in separate answer sheet.
- (2) Figures to the right indicates full marks.

**SECTION - I**

- |           |  |    |
|-----------|--|----|
| 1         | Describe in detail the digestion and absorption of carbohydrate. | 15 |
| 2         | Describe physiology of liver.                                    | 15 |
| <b>OR</b> |  |    |
| 2         | Describe physiology of Growth hormones.                          | 15 |
| 3         | Short notes :  | 20 |
|           | A) Cholesterol.  |    |
|           | B) Cryptorchidism.   |    |
|           | C) Vitamin C.  |    |
|           | D) Patent Ductus arteriosus.                                     |    |

**SECTION - II**

- |           |   |    |
|-----------|---|----|
| 4         | Describe the physiology of menstruation.            | 15 |
| 5         | Describe the structure and functions of cerebellum. | 15 |
| <b>OR</b> |   |    |
| 5         | Describe the function of Hypothalamus.              | 15 |

BH-8112]

1

[Contd...



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6 Short notes : (Any 4) 20

- A) Synapse.
- B) Peristalsis.
- C) Essential amino acids.
- D) Gluconeogenesis.
- E) Prolactin.

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2

[200]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

**AJ-103**

**D/ME-8112**

First Year B.H.M.S. Examination  
April-2014  
Physiology & Biochemistry – II  
(New Course)

Faculty Code : D/ME  
Subject Code : 8112

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Attempt all questions.  
(2) Figures in right indicate full marks.  
(3) Right both the sections in separate answer books.

**Section – I**

1. Describe in detail the composition, functions and regulation of gastric juice. 15
  2. Describe the digestion and absorption of carbohydrates with a note on EM pathway. 15
- OR**
- Describe the physiology of liver.

3. Write short notes : (any 4) 20
  - (1) BMR
  - (2) Vitamin A
  - (3) Balanced Diet
  - (4) TCA cycle
  - (5) Movements of small intestine

**Section – II**

4. Describe in detail the pathway of pyramidal tract. 15

**OR**

Describe in detail the synthesis, regulation and functions of thyroid hormone.
5. Write notes on : 8
  - (a) Functions of Hypothalamus 7
  - (b) Spermatogenesis

D/ME-8112

1

P.T.O.



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6. Write short notes : (any 4)
- (1) Functions of growth hormone
  - (2) Graffian follicle
  - (3) Simple muscle curve
  - (4) Functions of oestrogen
  - (5) Prolactin

20

D/ME-8112

First Year B.H.M.S. Examination  
April-2014  
Physiology & Biochemistry - II  
(New Course)

Faculty Code : D/ME  
Subject Code : 8112

[Total Marks : 100]

Time : 3 Hours

Instructions : (1) Attempt all questions.  
(2) Figures in right indicate full marks.  
(3) Right both the solutions in separate answer books.

Section - I

1. Describe in detail the composition, functions and regulation of gastric juice. 15

2. Describe the digestion and absorption of carbohydrates with a note on HMI pathway. 15

OR  
Describe the physiology of liver.

3. Write short notes : (any 4) 20

- (1) HMR
- (2) Vitamin A
- (3) Balanced Diet
- (4) ICA cycle
- (5) Movements of small intestine

Section - II

4. Describe in detail the pathway of pyruvic acid. 15

OR  
Describe in detail the synthesis, regulation and functions of thyroid hormone.

5. Write notes on : 8

- (a) Functions of Hypothalamus
- (b) Spermatogenesis

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2

D/ME-8112



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

**SE-101**

**D/ME-8112**

First B.H.M.S. Examination  
September-2014

Physiology & Bio-chemistry, Paper-2

Faculty Code : D/ME  
Subject Code : 8112

Time : 3 Hours]

[Total Marks : 100

- Instructions : (1) Write each section in separate answer book.  
(2) Draw figure wherever necessary.

**SECTION – 1**

1. Digestion and absorption of lipid. 15
2. Describe  $\beta$ -oxidation of fatty acids. 15
3. Write short notes : (any four) 20
  - (1) Vomiting
  - (2) Phospholipid
  - (3) Glycogen
  - (4) Alkaline tide
  - (5) Movements of Villi

**SECTION – 2**

4. Describe Pyramidal tract. 15
5. (a) Functions of Thyroid Hormones. 8  
(b) Functions of Ovary. 7
6. Write short notes : (any four) 20
  - (1) Rigor-mortis
  - (2) Vit.-C
  - (3) Ovulation
  - (4) Insulin
  - (5) Nitrogen-Equilibrium.

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**JS-1**

**D/ME-8112**

First Year B.H.M.S. Examination  
August-2013

**PHYSIOLOGY AND BIOCHEMISTRY : PAPER – II**

Faculty Code : D/ME  
Subject Code : 8112

**Time : 3 Hours]**

**[Total Marks : 100**

- Instructions :** (1) Write each section in separate answer book.  
(2) Draw figure wherever necessary.

**SECTION - I**

1. Describe composition & function of bile. **15**
2. Describe  $\beta$ -oxidation of fatty acids. **15**
3. Write short notes : (any **four**) **20**
  - (1) Essential amino acid
  - (2) Specific dynamic action of food-stuffs
  - (3) Classification of Enzyme
  - (4) Glycogen
  - (5) Taste-buds

**SECTION - II**

4. Enumerate hormones secreted by APG & functions of GH. **15**
5. Describe origin course & termination & functions of pyramidal tract. **15**
6. Write short notes : (any **four**) **20**
  - (1) Rigor-montis
  - (2) Functions of testosterone
  - (3) Puberty
  - (4) Wallerian degeneration
  - (5) Neuron

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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



Seat No. \_\_\_\_\_

**D/ME-8112**  
**First Year B.H.M.S. Examination**  
**March - 2013**  
**Physiology & Biochemistry Paper-2**

**SECTION : I**

Q-1. Describe in detail metabolism of carbohydrate. 15

Q-2. Describe in detail the menstrual cycle. 15

**OR**

Q-2. Describe the secretion, composition and function of bile juice. 15

Q-3. Short notes. (Any four) 20

- A) Patent ductus arteriosus.
- B) Vit A.
- C) Cholesterol.
- D) Peristalsis.
- E) Oxytocin.

**SECTION : II**

Q-4. Describe the physiology of thyroid hormone. 15

Q-5. Describe the physiology of limbic system. 15

**OR**

Q-5. Describe the structure and function of cerebellum. 15

Q-6. Short notes. (Any four) 20

- A) Epinephrine.
- B) Dwarfism.
- C) Lactation.
- D) Diabetes mellitus.
- E) Puberty.



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**MJ-8112**

Seat No. \_\_\_\_\_

**First Year B. H. M. S. Examination**

**April / May - 2012**

**Physiology & Bio-Chemistry : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions : (1) Write each section in separate answer book.  
(2) Draw figure wherever necessary.

**SECTION - I**

- |   |   |    |
|---|---|----|
| 1 | Describe composition and functions of Gastric juice ?<br>Mechanism of secretion of it.  | 15 |
| 2 | Describe catabolism of glucose.   | 15 |
| 3 | Write short notes (any four)<br>(i) Phospholipid<br>(ii) Vomiting<br>(iii) Vit-K<br>(iv) Essential Amino-acid<br>(v) Classification of Enzyme | 20 |

**SECTION - II**

- |   |  |    |
|---|--|----|
| 4 | Enumerate hormone secreted by Anterior pituitary gland. Role of GH in detail.  | 15 |
| 5 | Describe pyramidal tract.  | 15 |
| 6 | Write short notes (any four)<br>(i) Simple muscle curve<br>(ii) Puberty<br>(iii) Graffian - follicle<br>(iv) Wallerian - Degeneration<br>(v) ADH | 20 |

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[400/11-7]



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AC-8112

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

September / October – 2012

Physiology & Bio-Chemistry : Paper - II

Time : 3 Hours]

[Total Marks : 100

**Instructions: (1) Write each section in separate answer book.**

**(2) Draw diagram wherever necessary.**

**(3) Figure to the right indicates marks.**

**SECTION – 1**

- |   |    |
|---|----|
| 1. Describe in detail the menstrual cycle.                          | 15 |
| 2. classify proteins. Describe its digestion and absorption in GIT. | 15 |
| OR  |    |
| 2. Describe physiology of liver.                                    | 15 |
| 3. Write Short notes (Any Four)                                     | 20 |
| a) Classification of enzymes.                                       |    |
| b) Vitamin C  |    |
| c) Peristalsis.   |    |
| d) Patent ductus arteriosus.  |    |
| e) Balance diet.  |    |

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[Contd...



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**SECTION – 2**

- |  |     |
|--|-----|
| 4. Describe the physiology of GH.            | 15. |
| 5. Describe the physiology of limbic system. | 15  |

Or

- |  |    |
|--|----|
| 5. Describe pyramidal tract in detail & effect of section of it. | 15 |
| 6. Write Short notes (Any Four)                                  | 20 |
- a) HMP shunt.
  - b) Hypogonadism.
  - c) Epilepsy.
  - d) Cryptorchidism.
  - e) Essential amino acids.
-



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**RJ-8112**

Seat No. \_\_\_\_\_

**First Year B.H.M.S. Examination**

**April / May – 2011**

**Physiology & Bio-Chemistry : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Write each section in separate answer books.  
(2) Draw figure wherever necessary.

**SECTION - I**

- |   |  |    |
|---|--|----|
| 1 | Describe physiological action of oestrogen ? | 15 |
| 2 | (1) Synapse.                                 | 8  |
|   | (2) Wallerian degeneration.                  | 7  |
| 3 | Write short notes : (any four)               | 20 |
|   | (a) Insulin                                  |    |
|   | (b) Rigor-mortis                             |    |
|   | (c) Pubertg                                  |    |
|   | (d) Neuro-musculap junction                  |    |
|   | (e) Glucocorticoids.                         |    |

**SECTION - II**

- |   |   |    |
|---|---|----|
| 4 | Describe composition and functions of Gastric - Juice ? | 15 |
| 5 | (1) Kreb's cycle.                                       | 8  |
|   | (2) Phosphorylation.                                    | 7  |
| 6 | Write short notes : (any <b>four</b> )                  | 20 |
|   | (a) Functions of soliva                                 |    |
|   | (b) Cholestrol  |    |
|   | (c) Folic acid  |    |
|   | (d) Vomlting  |    |
|   | (e) Essential amino-acid.                               |    |



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UB-8112

Seat No. \_\_\_\_\_

**First Year B. H. M. S. Examination**

September / October – 2011

**Physiology & Biochemistry : Paper - II**

*(New Course)*

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Figures in right indicate full marks.  
(2) Draw diagrams if necessary.  
(3) Write each section in separate answer book.

**SECTION - I**

- 1 Describe composition, regulation and functions of gastric juice. 15

OR

- 1 Describe in detail the process of digestion and absorption of carbohydrates and write a note on TCA cycle. 15
- 2 Write notes on : (any two) 7.5×2=15
- (1) Deglutition.
  - (2) Movements of small intestine
  - (3) Beta-oxidation of fats.
- 3 Write short notes on : (any four) 5×4=20
- (1) BMR
  - (2) Vit A
  - (3) Vomiting
  - (4) PEM
  - (5) Functions of bile.



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**SECTION - II**

Define synapse. Describe in detail the properties of synapse. 15

OR

Describe in detail synthesis, functions regulation and applied of thyroid hormone. 15

Write notes on : (any two) 7.5×2=15

- (1) Pyramidal tract
- (2) Ovarian changes during menstruation
- (3) Functions of hypothalamus.

Short notes on : (any four) 5×4=20

- (1) Functions of cerebellum
- (2) Cushings syndrome
- (3) Puberty
- (4) Neurone
- (5) Functions of growth hormone.



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M-8112

Seat No. \_\_\_\_\_

**First Year B.H.M.S. Examination**

**September - 2010**

**Physiology & Biochem. : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions :**
- (1) Each section carries 50 marks.
  - (2) Each section should be written in separate answersheet.
  - (3) Answer to the point.
  - (4) Draw diagram if required.

**SECTION-I**

- 1 Describe composition, function and regulation of gestic juice. 15
- 2 Classify proteins. Describe its digestion and absorption in G.I.T. 15

**OR**

- 2 What is balanced diet ? Describe how balanced diet for adult pregnant lady is calculated. 15
- 3 Write short notes on : (any **four**) 20
  - (1) Regulation of salivary secretion
  - (2) B.M.R.
  - (3) Beta oxydation of fat
  - (4) Vit.-A
  - (5) Enzyme.

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SECTION-II

- |    |   |    |
|----|---|----|
| 4  | Describe synthesis, function and regulations of thyroxin. | 15 |
| 5  | Describe the physiology of menstrual cycle.               | 15 |
| OR |   |    |
| 5  | Describe the physiology of limbic system.                 | 15 |
| 6  | Write short notes on : (any four)                         | 20 |
|    | (1) Puberty   |    |
|    | (2) Tetany  |    |
|    | (3) Lactation   |    |
|    | (4) Pyramid pathway                                       |    |
|    | (5) Muscle spindle.                                       |    |



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MK-8112

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

April / May - 2010

Physiology & Biochemistry : Paper-II

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Write each section in **separate** answer book.  
(2) Figure to the **right** indicates **full** mark.  
(3) Draw figure wherever **necessary**.

**SECTION-I**

- 1 Write composition and function of salivary and bile juice. 15
- 2 Digestion of carbohydrates, proteins and fat. 15
- 3 Write short notes : (any **four**) 20
  - (i) BMR
  - (ii) Uric acid metabolism
  - (iii) Characteristic of Enzyme action
  - (iv) Emesis
  - (v) Movements of small intestine.

**SECTION-II**

- 1 Describe physiology of menstrual cycle with its hormonal regulation. 15
  - 2 Define Synapse and describe classification, functions and characteristics of synapse. 15
- OR**
- 2 Describe Pituitary gland in detail with its applied physiology. 15

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[Contd...



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- 3 Write short notes : (any four) 20
- (i) Difference between upper and lower motor neuron lesion
  - (ii) Symptoms of Hypothyroidism
  - (iii) Function of Glucocorticoid
  - (iv) Insulin
  - (v) Properties of skeletal muscles.



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



GK-8112

Seat No. 000053

First Year B. H. M. S. Examination  
March / April - 2009  
Physiology & Bio-Chemistry : Paper - II

Time : 3 Hours]

[Total Marks : 100

Instructions: (i) Write each section in **separate** answer book.  
(ii) Draw figure wherever **necessary**.

**SECTION - I**

- 1 Describe composition, functions of Saliva and mechanism of secretion of it. 15
- 2 Describe physiology of liver 15
- 3 Write short notes 20
  - (i) Characteristics of Enzyme action
  - (ii) Distribution of calories in diet
  - (iii) Nitrogen equilibrium.
  - (iv) HMP - Shunt.

**SECTION - II**

- 4 Describe Synthesis and functions of Thyroid hormone. 15
- 5 Describe pyramidal tract in details and effects of section of it. 15
- 6 Write short notes. 20
  - (i) Functions of placenta
  - (ii) Functions of FSH and LH in males and females.
  - (iii) Puberty
  - (iv) Cori-Cycle.



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



K-8112

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

September/October – 2009

Physiology & Biochemistry : Paper - II

Time : Hours]

[Total Marks : 100

**Instruction :** Each section should be written in separate answer book.

**SECTION - I**

- 1 Describe composition and function of bile juice and mechanism of bile secretion. 15

**OR**

- 1 Describe Digestion and absorption of Carbohydrate. 15
- 2 Describe  $\beta$ -oxidation of fatty acid. 15
- 3 Write short notes : (any four) 20
- (1) B.M.R.
  - (2) Movement of small intestine
  - (3) Classification of Enzymes
  - (4) Essential - amino acid
  - (5) Vitamin - A.

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[Contd...



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**SECTION - II**

4 Describe pyramidal tract. Mention difference between upper and lower motor neuron lesions. 15

**OR**

4 Describe detailed physiology of Lactation. 15

5 Enumerate hormones secreted by anterior pituitary gland and describe physiological action of G.H. 15

6 Write short notes : (any four) 20

- (1) Wallerian degeneration
- (2) Fatigue in skeletal muscle
- (3) Hypothyroidism
- (4) Insulin
- (5) Graafian follicle.



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



NU-8112

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

August / September - 2008

Physiology & Biochemistry : Paper - II

Time : 3 Hours]

[Total Marks : 100

- Instructions : (1) Draw a diagram wherever necessary.  
(2) Write each section on **separate** answer book.

**SECTION - I**

- 1 Describe physiology of liver. 15
  - 2 Describe mechanism of secretion of gastric juice and origin and characteristics of individual contents of gastric juice. 15
- OR
- 2 Explain in detail the exocrine function of pancreas. 15
  - 3 Write notes : (any four) 20
    - (1) BMR
    - (2) Beta oxidation of fats
    - (3) Vitamin-A
    - (4) Vitamin-B-12
    - (5) Oxidative phosphorylation.

**SECTION - II**

- 1 Write in brief : (any two) 15
  - (1) Menstrual cycle
  - (2) Function of Glucocorticoid
  - (3) Diabetes Mellitus.
- 2 Describe the Pyramidal tract and function of it. 15
- 3 Write notes : (any four) 20
  - (1) All or none law
  - (2) Fatigue
  - (3) Neurone
  - (4) Cretinism
  - (5) Neocerebellum.

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[ 200 / 5-5 ]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



NL-8111

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

April / May - 2008

Physiology & Bio-Chem. : Paper - I

Time : 3 Hours]

[Total Marks : 100

- Instructions: (1) Write **each** section in **separate** answer book.  
(2) Draw **figure** whenever **necessary**.

**SECTION - I**

- |   |  |    |
|---|--|----|
| 1 | Describe cardiac-cycle. Discuss pressure volume changes occur in heart and aorta during cardiac cycle. | 15 |
| 2 | (a) Factors affecting erythropoiesis.  | 8  |
|   | (b) Plasma proteins.   | 7  |
| 3 | Write short notes : (any <b>four</b> )   | 20 |
|   | (a) Reticulo-Endothelial system.   |    |
|   | (b) Functions of spleen  |    |
|   | (c) Lymph-node   |    |
|   | (d) Sol & gel  |    |
|   | (e) Starch   |    |

**SECTION - II**

- |   |   |    |
|---|---|----|
| 4 | Describe mechanism of formation of urine. | 15 |
| 5 | (a) Anoxia                                | 8  |
|   | (b) Nervous regulation of respiration.    | 7  |

NL-8111]

1

[Contd...





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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



NL-8112

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

April / May - 2008

Physiology & Bio-Chem. : Paper - II'

Time : 3 Hours]

[Total Marks : 100

SECTION - I

- 1 Describe composition and function of gastric Juice and mechanism of secretion of it. 15
- 2 Describe physiology of liver? 15
- 3 Write short notes : (any four) 20
  - (a) Folic-acid
  - (b) Sterol compounds
  - (c) Phospholipid
  - (d) Essential amino-acids
  - (e) Enzymes.

SECTION - II

- 4 Describe synthesis and function of thyroid hormone. 15
- 5 Describe structure and function of cerebellum. 15
- 6 Write short notes : (any four) 20
  - (a) Simple muscle curve
  - (b) Limbic system
  - (c) Acromegaly
  - (d) Cori-cycle
  - (e) Reflex-arc.

NL-8112]

[ 500/13-11 ]



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M-8112

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

August - 2007

Physiology & Biochem. : Paper - II

Time : 3 Hours]

[Total Marks : 100

**Instructions :** (1) Answer each section in **separate** answer book.  
(2) Draw figure where necessary.

**SECTION - I**

- 1 Describe the digestion and absorption of fat. 15
- 2 Write short notes : (any four) 20
  - (1) Vomiting
  - (2) Movement of large intestine
  - (3) Composition and function of gastric juice
  - (4) Essential amino acid
  - (5) Vitamin-C.
- 3 Write short notes : (any three) 15
  - (1) Vitamin-K
  - (2) BMR
  - (3) Glycogenolysis
  - (4) Nitrogen equilibrium.

**SECTION - II**

- 1 Describe corticospinal tracts with its functions. 15
  - 2 Describe the synthesis and physiological action of thyroid hormone. 15
- OR**
- 2 Describe the physiology of menstrual cycle with its hormonal regulation. 15
  - 3 Write the short notes : (any four) 20
    - (1) Glycosuria
    - (2) Function of hypothalamus
    - (3) Synapse
    - (4) ADH
    - (5) GTT.

M-8112]

[ 200 ]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



PH-8112

Seat No. \_\_\_\_\_

First Year B.H.M.S. Examination

March / April - 2007

Physiology & Bio-Chemistry : Paper - II

Time : 3 Hours]

[Total Marks : 100

Instruction : Draw figure wherever necessary.

SECTION - I

- |   |  |    |
|---|--|----|
| 1 | (a) Functions of Thyroid hormone $T_4$ . | 8  |
|   | (b) Functions of oestrogen.              | 7  |
| 2 | Describe Tract of gall and burdache.     | 10 |
| 3 | Write short notes (any five)             | 25 |
|   | (1) Animal starch or Glycogen            |    |
|   | (2) Testosterone                         |    |
|   | (3) Rigor-mortis                         |    |
|   | (4) Functions of GH (in brief)           |    |
|   | (5) Functions of ADH                     |    |
|   | (6) Corpus luteum.                       |    |

SECTION - II

- |   |  |    |
|---|--|----|
| 4 | Describe composition, function of saliva and mechanism of secretion of it. | 15 |
| 5 | Describe physiology of liver.  | 15 |
| 6 | Write short notes.   | 20 |
|   | (1) Enzyme   |    |
|   | (2) Folic acid   |    |
|   | (3) Hmp shunt  |    |
|   | (4) Krebs's cycle.   |    |

PH-8112]

[ 300/8-6 ]





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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



TA-8112

Seat No. \_\_\_\_\_

**First Year B.H.M.S. Examination**

August - 2006

**Physiology & Biochemistry : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Answer each section in **separate** answer book.  
(b) Draw figure where **necessary**.

**SECTION - I**

- 1 Explain in detail the exocrine function of pancreas. 20
  - 2 What is B.M.R. ? Write the factor effecting the B.M.R. 15
- OR**
- 2 Describe the digestion and absorption of carbohydrate. 15
  - 3 Write notes on : (any **three**) 15
    - (1) Vitamine-C
    - (2) Function of Gastric Juices
    - (3) Cori cycle
    - (4) Vitamine-A.

**SECTION - II**

- 1 Explain how somatic pain is carried in the Brain. 20
  - 2 Describe in detail physiology of lactation. 15
- OR**
- 2 Describe the menstrual cycle, and explain how different hormones regulate it. 15
  - 3 Write notes : (any **three**) 15
    - (1) Function of oxytocine
    - (2) Tetany
    - (3) Puberty
    - (4) Glucose tolerance test.

TA-8112]

[ 200 ]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**



DA-8112

Seat No. 000017

First Year B.H.M.S. Examination

September / October - 2005

**Physiology & Biochemistry : Paper - II**  
(New Course)

Time : 3 Hours]

[Total Marks : 100

- Instructions : (1) Draw a diagram wherever possible.  
(2) Answer each section separately.  
(3) Figures to the right indicate full marks.

**SECTION - I**

- 1 Describe the classification of nerve fibers and the mechanism of nerve impulse conduction. 20
- 2 Write in brief : (any two) 15
  - (1) Describe only digestive function of saliva and gastric juice.
  - (2) HMP shunt.
  - (3) BMR.
- 3 Write notes on : (any three) 15
  - (1) Vitamin A
  - (2) Normal diet
  - (3) Deglutition
  - (4) Essential amino acids.

**SECTION - II**

- 1 Define Hormone. Discuss the control of secretion and function of growth hormone. 20
- 2 Write in brief : (any two) 15
  - (1) Menstruation cycle
  - (2) Puberty
  - (3) Spermatogenesis.
- 3 Write notes on : (any three) 15
  - (1) Critinism
  - (2) Tetany
  - (3) Graffian follicle
  - (4) Acromegally.

DA-8112]

[ 100 ]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

APR 2005

Seat No. : \_\_\_\_\_

**D/ME-8112**

**Physiology & Bio-Chemistry  
Paper-II**

**Time : 3 Hours]**

**[Max. Marks : 100**

- Instructions:** (1) Write each section in separate answer books.  
(2) Draw figure wherever necessary.  
(3) Figure to right indicate full marks.

**SECTION-I**

1. Describe synthesis of Thyroid hormone & physiology of them. **10**
2. Describe Pyramidal tract in detail. **10**
3. Describe physiology of Menstrual cycle. **10**
4. Write short notes on (any **four**) : **20**
  - (a) Insulin
  - (b) Puberty
  - (c) Synapse
  - (d) Fatigue
  - (e) Glucocorticoids
  - (f) Neuron

**SECTION-II**

5. Describe mechanism of secretion of Gastric Juice and origin & characteristics of individual contents of Gastric Juice. **15**
6. Describe physiology of liver. **15**
7. Write short notes on (any **four**) : **20**
  - (a) Function of Saliva
  - (b) Essential Amino-acid
  - (c) Phospholipid
  - (d) Glycogenolysis
  - (e) Folic acid
  - (f) Bile-salts.

D/ME-8112]

1



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

28

AY-4587

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

April / May - 2004

000014

Physiology : Paper - II

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Write each section in separate answer sheet.  
(2) Figures on right side indicate full marks.  
(3) Draw figure wherever necessary.

**SECTION - I**

- |           |  |    |
|-----------|--|----|
| 1         | Describe composition and function of saliva and mechanism of salivary secretion. | 20 |
| 2         | Describe physiology of menstruation.   | 15 |
| <b>OR</b> |  |    |
| 2         | Describe synthesis and physiological action of thyroid hormone ?                 | 15 |
| 3         | Write short notes : (any three)  | 15 |
|           | (1) Rigop montis   |    |
|           | (2) Enzyme   |    |
|           | (3) ADH  |    |
|           | (4) Balance diet   |    |
|           | (5) Puberty  |    |
|           | (6) Insulin.   |    |

AY-4587]

1

[Contd..





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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

SECTION - II

- 4 Describe pyramidal tract in detail ? 20
- 5 Describe catabolism of glucose in our body ? 15
- OR
- 5 Describe  $\beta$ -oxidation of fatty acids. 15
- 6 Write short notes : (any **three**) 15
- (1) Essential amino-acids
  - (2) B. M. R.
  - (3) Protein
  - (4) Synapse
  - (5) Neuro-muscular junction
  - (6) Neo-glucogenesis.



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

AA-4500

Seat No. \_\_\_\_\_

First B. H. M. S. Examination

August – 2004

Physiology & Bio-Chem. : Paper - II

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Answer each section in **separate** answer book.  
(2) Draw figure where **necessary**.  
(3) Answer should be precise and legible.

**SECTION - I**

- 1 Describe composition and function of Bile. Mechanism of secretion of bile. 20
- 2 Enumerate name of hormones secreted by anterior pituitary gland. Describe physiological action of GH. 15
- OR**
- 2 Describe process of spermatogenesis. 15
- 3 Write short notes : (any three) 15
- (1) Fatigue (4) Vomiting  
(2) Enzyme (5) Movements of S.I.  
(3) Mineralocorticoids (6) Diabetes-mellitus.

**SECTION - II**

- 4 Describe pyramidal tract. Mention difference between upper motor neuron lesion and lower motor neuron lesion. 20
- 5 Describe physiology of liver. 15
- OR**
- 5 Describe regulation of blood-glucose level in our body. 15
- 6 Write short notes : (any three) 15
- (1) Wallerian degeneration  
(2) Functions of hypothalamus  
(3) Hmp shunt and it's physiological importance  
(4) Phospholipid  
(5) Biuret test  
(6) Specific dynamic action of food.

AA-4500]

[100]



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**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

C-4587

Seat No. \_\_\_\_\_

**First Year B. H. M. S. Examination**

August - 2003

**S/ME - 4587 Physiology & Biochemistry : Paper - II**

Time : 3 Hours]

[Total Marks : 100

**Instructions :** (1) Write each section in **separate** answer book.  
(2) Draw diagram wherever necessary.

**SECTION - I**

- |   |  |    |
|---|--|----|
| 1 | Composition and function of Bile.                                  | 15 |
|   | OR   |    |
| 1 | Mechanism of gastric secretion.                                    |    |
| 2 | Write short notes : (any two)                                      | 15 |
|   | (1) Glycogenesis and Glycolysis                                    |    |
|   | (2) Function of amino acid in the body                             |    |
|   | (3) Regulation of water balance.                                   |    |
| 3 | Write in brief :   | 20 |
|   | (1) Describe in brief the important constituents of gastric juice. |    |
|   | (2) Vitamin - B <sub>12</sub> .                                    |    |
|   | (3) Deglutition.   |    |
|   | (4) Normal diet.   |    |

**SECTION - II**

- |   |   |    |
|---|---|----|
| 1 | Properties of skeletal muscles.   | 15 |
|   | OR  |    |
| 1 | Define menstruation and explain according to phases and also describe changes occurs in uterus and ovary. |    |
| 2 | Explain pyramidal tract as a whole with its diagram and function.   | 15 |
| 3 | Write short notes : (any four)  | 20 |
|   | (1) Tetany  |    |
|   | (2) Coricycle   |    |
|   | (3) Function of insulin   |    |
|   | (4) Physiological changes during pregnancy  |    |
|   | (5) Babinki's sign.   |    |

C-4587]

[100]

3015  
121  
6282



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DEPARTMENT  
OF

**PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)**

ER-4587      Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

March/ April - 2003

S/ME-4587 : Physiology &  
Biochemistry : Paper- II

Time : 3 Hours]

[Total Marks : 100

SECTION - I

- 1 Describe Digestion and Absorption of FAT. 20
- 2 Write in brief : 15
  - (1) Ascorbic acid.
  - (2) Functions of Saliva
  - (3) Cori cycle.
- 3 Write notes : (any three) 15
  - (1) BMR
  - (2) Glycolysis
  - (3) HMP SHUNT.

SECTION - II

- 1 Explain briefly posterior pituitary hormones. 20
- 2 Explain the origin, course, termination and function of pyramidal tract. 15

OR

- 2 Explain the formation and function of C.S.F. 15
- 3 Write notes : (any three) 15
  - (1) Puberty      (2) All or none law
  - (3) A.D.H.      (4) Ovulation
  - (5) Function of hypothalamus.

ER-4587]

[300]



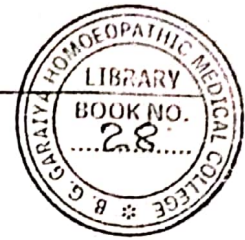
AAR-8112

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

April / May - 2016

Physiology & Biochemistry : Paper - II



Time : 3 Hours]

[Total Marks : 100

- Instructions : (1) Write each section in separate answer sheet.  
(2) Figures to the right indicates full marks.



SECTION-I

- 1 Describe in detail the composition & functions of saliva. 15
  - 2 Describe in detail the beta oxidation of lipids. 15
- OR
- 2 Describe physiology of Insulin. 15
  - 3 Short notes : (any four) 20
    - (a) Puberty
    - (b) Critinism
    - (c) Vitamin A
    - (d) Rigor mortis
    - (e) Cholesterol.

SECTION-II

- 4 Describe the physiology of menstrual cycle. 15
  - 5 Describe structure & functions of cerebellum. 15
- OR
- 5 Describe the function of Hypothalamus. 15

AAR-8112]

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[ Contd...

6 Short notes : (any four)

- (a) Enzymes
  - (b) Peristalsis
  - (c) Essential amino acids
  - (d) Gluconeogenesis
  - (e) Properties of skeletal muscle fibres.
-



MZ-8112

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

August - 2016

Physiology & Bio-Chemistry : Paper - II

Time : 3 Hours

[Total Marks : 100

- Instructions . (1) Write each section in separate answer book.  
 (2) Handwriting must be clean and readable.  
 (3) Draw diagram whenever necessary.

SECTION - I

- |   |  |    |
|---|--|----|
| 1 | Describe synthesis and physiological action of $T_3$ and $T_4$ . | 15 |
| 2 | (a) Wallerian degeneration.                                      | 8  |
|   | (b) Properties of nerve fiber.                                   | 7  |
| 3 | Write short notes : (any four)                                   | 20 |
|   | (a) Role of insulin on carbohydrate metabolism                   |    |
|   | (b) Upper motor and lower motor neuron paralysis                 |    |
|   | (c) Nitrogen equilibrium   |    |
|   | (d) Vitamin-A  |    |
|   | (e) Classification of Enzymes.                                   |    |

SECTION - II

- |   |  |    |
|---|--|----|
| 4 | Describe metabolism of protein.        | 15 |
| 5 | (a) Composition and functions of Bile. | 8  |
|   | (b) Movements of small Intestine.      | 7  |

MZ-8112

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 No. [Contd...]  
 Date : \_\_\_\_\_

6 Write short notes : (any four)

- (a) Ovulation
- (b) Simple muscle curve
- (c) Functions of large intestine
- (d) Phospholipids
- (e) Jaundice.





HDR-M201633

Seat No.

526

**First Year B. H. M. S. Examination**  
**November / December - 2017**  
**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Write each section in separate answer book.  
(2) Answer to the point.

**SECTION - I**

- 1 Describe composition and function of saliva and mechanism of its secretion. 15
- 2 Describe Pyramidal tract in detail. 15
- OR**
- 2 Classification of nerve fibers and mechanism of conduction of nerve impulse. 15
- 3 Write short notes : (any four) 20
- (a) Normal Diet
  - (b) Essential Amino acids
  - (c) Vomiting
  - (d) Beta-Oxidation of fats
  - (e) Nitrogen equilibrium

**SECTION - II**

- 4 Describe Menstrual Cycle in and explain how different hormones regulate it. 15
- 5 Structure of Internal Ear and Auditory Pathway in detail. 15
- 6 Write short notes : (any four) 20
- (a) Functions of T3 and T4
  - (b) Insulin
  - (c) Vitamin A
  - (d) Myopia
  - (e) ADH

HDR-M201633 ]

[ 550/15-10 ]



MCL-M201633

Seat No. \_\_\_\_\_

First Year B. H. M. S. Examination

May / June - 2018

Physiology : Paper-II  
(Physiology & Bio-Chemistry)  
(New Course)



Time : 3 Hours]

[Total Marks : 100

**Instructions :**

- (1) Write each section in separate answer-book.
- (2) Draw figures where ever necessary.

**SECTION - I**

- |   |  |    |
|---|--|----|
| 1 | Enumerate hormons of Ant pituitary gland. Describe growth hormon & its applied physiology. | 15 |
| 2 | (a) Fat soluble vitamins.  | 8  |
|   | (b) Function of Hypothalamus.  | 7  |
| 3 | Write short notes : (any four)   | 20 |
|   | (a) Vit. B-12  |    |
|   | (b) Reflex-Arc   |    |
|   | (c) Synapse  |    |
|   | (d) Enzyme   |    |
|   | (e) Hypothyroidism   |    |

SECTION - II

- 4 Describe carbohydrate metabolism. 15
- 5 (a) Menstrual Cycle. 8  
(b) Function of Gastric Juice. 7
- 6 Write short notes : (any four) 20
- (a) Testosterone  
(b) Vomiting  
(c) Function of bile  
(d) Essential Amino acids  
(e) Fatigue



**J-M201633**

Seat No. \_\_\_\_\_

**First Year B. H. M. S. Examination**

**August - 2019**

**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Write each section in separate answer book.  
(2) Draw diagram whenever necessary.

**SECTION - I**

- 1 Describe in detail Physiology of growth Hormone. 15
- 2 (a) Functions of Hypothalamus. 7  
(b) Synapse 8
- 3 Write Short notes : (Any Four) 20  
(a) Hormones of Placenta  
(b) Vitamin D  
(c) Liver  
(d) Peristalsis  
(e) Cholesterol.

**SECTION - II**

- 4 Describe in detail the physiology of menstrual cycle. 15
- 5 Describe composition and function of salivary Juice. 15
- 6 Write short notes : (Any Four) 20  
(a) Spermatogenesis  
(b) Ductus arteriosus  
(c) Prolactin  
(d) Essential amino acids  
(e) Puberty.

J-M201633 ]

[ 350/8-11 ]



PCN-201633

Seat No. \_\_\_\_\_

**B.H.M.S. (Sem. I) Examination**

January - 2019

**Physiology : Paper-2**

*(New Course)*

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

- (1) Write each section in separate answer booklet.
- (2) Figures on right side indicate marks.
- (3) Draw diagrams wherever necessary.
- (4) All questions are compulsory.

**SECTION - I**

- 1 Describe the composition, functions phases and regulation 15  
of gastric secretion.
- 2 Define Synapse. Describe the pyramidal tract in detail. 15
- 3 Short note : (any 4) 4×5=20
  - (a) Classification of enzymes.
  - (b) Insulin.
  - (c) Glucocorticoids.
  - (d) Movements of GIT.
  - (e) TCA cycle.

PCN-201633 ]

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[ Contd...

**SECTION - II**

- 4 Enumerate the hormones secreted by anterior pituitary gland. Describe the growth hormone in detail. 15
- 5 Describe menstrual cycle in detail. 15
- 6 Short note : (any four) 4×5=20
- (a) Functions of Liver
  - (b) Puberty
  - (c) Taste buds
  - (d) Vitamin A
  - (e) Balanced diet