



63111

First B.P.Th. (2012) Examination, Summer 2014  
HUMAN ANATOMY – I

Total Duration: Section A + B + C = 3 Hours

Section B &amp; C Marks: 60

## SECTION – B &amp; SECTION – C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full** marks.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) **Use** a common answer book for **all** Sections.

## SECTION – B

(30 Marks)

(5x3=15)

2. Answer the following (**any five** out of six) :
- a) Arterial supply of stomach.
  - b) Draw and label Anterior relations of left kidney.
  - c) Enumerate the constituents of the spermatic cord.
  - d) Mention openings in the diaphragm.
  - e) Give sensory nerve supply of Tongue.
  - f) Boundaries of Middle ear cavity.

3. Answer the following (**any three** out of four) :

(3x5=15)

- a) Typical Intercostal space.
- b) Give boundaries and contents of Axilla.
- c) Structures under cover of gluteus maximus.
- d) Sternocleidomastoid.

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SECTION - C

(30 Marks)

4. Describe wrist joint under following heads. (1x15=15)
- i) Type and articular surfaces (3marks)
  - ii) Ligaments (4 marks)
  - iii) Relations (4 marks)
  - iv) Movements and muscles producing. (4 marks)
5. a) Describe Hypoglossal nerve under following heads. (1x15=15)
- i) Functional components and Nuclei (3 Marks)
  - ii) Course and relations (5 marks)
  - iii) Branches and distribution (4 marks)
  - iv) Clinical anatomy. (3 marks)
- OR
5. b) Describe cerebellum under following heads. (1x15=15)
- i) External features (3 marks)
  - ii) Parts (3 marks)
  - iii) Connections and Nuclei (3 marks)
  - iv) Functions (3 marks)
  - v) Clinical anatomy. (3 marks)



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First B.P.Th. (2012) Examination, Summer 2014  
BIOCHEMISTRY – III

Total Duration : Section A + B = 2 Hours

Section B Marks : 30

SECTION – B

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full marks**.
  - 5) Draw diagrams **wherever necessary**.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) **Use a common answer book for all Sections.**

SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) : (5×3=15)
    - a) Describe the steps involved in urea cycle.
    - b) Write a note on essential fatty acids.
    - c) Describe the hormonal regulation of blood glucose.
    - d) Describe classification of carbohydrates with one example of each.
    - e) Write a note on competitive inhibition of enzymes.
    - f) Give an account of tyrosine and phenylalanine metabolism.
  
  3. Answer the following (**any three** out of four) : (3×5=15)
    - a) Give the daily requirements, functions and deficiency manifestations of Vitamin A.
    - b) Describe prostaglandins and their functions.
    - c) Describe any three renal function tests.
    - d) Describe the factors affecting enzyme activity.
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First B.P.Th. 2012 Examination, Summer 2014  
FUNDAMENTALS OF ELECTRO THERAPY – V

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION – B & SECTION – C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full marks**.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) **Use** a common answer book for **all** Sections.

SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5×3=15)

- a) Lenz's law.
- b) Write full form of LASER & its Properties.
- c) Triode valve.
- d) Pulse amplitude.
- e) Fuse.
- f) Define Specific Heat.

3. Answer the following (**any three** out of four) :

(3×5=15)

- a) Physiological effects of heat.
- b) Classification of currents.
- c) Methods of Testing of shortwave diathermy.
- d) Contraindications of Cryotherapy.

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SECTION - C

(30 Marks)

4. Define heat. Describe the physiological and therapeutic effects of whirlpool bath. Write the method of application of whirlpool bath. (1×15=15)
5. a) Describe the construction of UVR lamp. Describe the production of UVR. Add a note on Tridymite formation. (1×15=15)

OR

5. b) Draw a neat labelled panel diagram of SWD. Write in detail the construction and production of SWD. (1×15=15)



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First B.P.Th. (2012) Examination, Summer 2014  
FUNDAMENTALS OF KINESIOLOGY AND KINESIOTHERAPY – IV

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION – B & SECTION – C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full marks**.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) **Use a common answer book for all Sections.**

SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5×3=15)

- a) Classification of active movement.
- b) Any three Physical properties of water.
- c) Angle of pull.
- d) Importance of Warm up exercises.
- e) Types of equilibrium.
- f) Uses of parallel bars.

3. Answer the following (**any three** out of four) :

(3×5=15)

- a) Trikonasana.
- b) Classification of lever with examples.
- c) Muscle work and uses of sitting position.
- d) Principles of hydrotherapy.

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SECTION - C

(30 Marks)

- (1x15=15)
4. Define goniometer. (1)  
What are different types of goniometer? (3)  
Write principles and uses of goniometer. (5)  
Describe universal goniometer with one example for right shoulder abduction and adduction. (6)
- (1x15=15)
5. a) Describe principles of suspension. (4)  
Describe suspension apparatus in detail. (8)  
Add a note on uses of suspension. (3)
- OR
- (1x15=15)
5. b) Write in detail classification of passive movements. (4)  
Describe in detail principles of relaxed passive movements. (7)  
Add a note on effects and uses. (4)



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**First B.P.Th. (2012) Examination, Summer 2014**  
**HUMAN PHYSIOLOGY – II**

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks : 60

**SECTION – B & SECTION – C**

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) Do not write anything on the **blank portion of the question paper**. If written anything such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All** questions are **compulsory**.
  - 4) The number to the **right** indicates **full** marks.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) **Use** a common answer book for **all** Sections.

**SECTION – B**

**(30 Marks)**

2. Answer the following (**any five** out of six) :

**(5×3=15)**

- a) Functions of estrogen.
- b) Metabolic actions of Thyroid Hormones.
- c) Dark Adaptation.
- d) Rh Incompatibility.
- e) Functions of bile juice.
- f) Micturition reflex.

3. Answer the following (**any three** out of four) :

**(3×5=15)**

- a) Ionic basis of action potential.
- b) Oxygen Debt.
- c) Baroreceptor Reflex.
- d) Oxygen Haemoglobin Dissociation Curve.

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SECTION – C

(30 Marks)

- 4. a) Draw Well labelled diagram of sarcomere. 3
- b) Describe molecular basis of muscle contraction in detail. 9
- c) Explain the role of ATP in muscle contraction. 3

(1×15=15)

- 5. a) a) Enumerate Ascending Tracts. 3
- b) Describe origin, course and termination of tract carrying pain sensation. 8
- c) Add a note on referred pain. 4

(1×15=15)

OR

- 5. b) a) Define and classify reflex action. 3
- b) Explain difference between monosynaptic reflex and polysynaptic reflex. 5
- c) Describe properties of reflexes. 7

(1×15=15)