63111

First B.P.T.H. (2012) Examination, Summer - 2021
HUMAN ANATOMY

Total Duration : Section A+B = 3 Hours | Total Marks : 80

SECTION - A & 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 "A" (SAQ) (50 Marks)

1. Short answer question (any five out of six): [5 × 3 = 15]
   a) Mention the parts and blood supply of the uterine tube.
   b) Enumerate the branches of axillary artery.
   c) Anterior relations of the right kidney
   d) Classification of cartilaginous joints.
   e) Enumerate the extraocular muscles and mention their nerve supply.
   f) Histology of skeletal muscle

2. Short answer question (any five out of six): [5 × 7 = 35]
   a) Attachments, actions and nerve supply of the intercostal muscles.
   b) Cubital fossa.
   c) Movements of temporomandibular joint.
   d) Morphology and relations of thyroid gland.
   e) External and internal features of right atrium of heart.
   f) Medial longitudinal arch of foot.

SECTION "B" (LAQ) (30 Marks)

3. Long answer question (any one out of two): [1 × 15 = 15]

   a) Describe the ulnar nerve under the following heads:
      i) Course and relations,
      ii) Distribution and branches,
      iii) Clinical anatomy.

   b) Describe hip joint under the following heads:
      i) Type and articular surfaces,
      ii) Fibrous capsule and ligaments,
      iii) Movements and muscles producing movements,
      iv) Applied anatomy.

4. Long answer question (any one out of two) [1 × 15 = 15]

   a) Describe the facial nerve under following heads:
      i) Functional components and nuclei,
      ii) Course and relations,
      iii) Branches and distribution,
      iv) Clinical anatomy.

   b) Describe the superolateral surface of cerebral hemisphere under the following heads:
      i) Sulci and gyri,
      ii) Functional areas,
      iii) Blood supply.

First B.P.T.H. (2012) Examination, Summer - 2021
HUMAN PHYSIOLOGY - II

Total Duration 3 Hours | Total Marks 80

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3) *All questions are compulsory.*

4) *The number to the right indicates full marks.*

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7) *Use a common answer book for all sections.*

SECTION "A" (SAQ) (50 Marks)

1. Short answer question (any five out of six): [5 × 3 = 15]

a) Deglutition

b) What is LH surge? Describe the various phases of ovarian cycle.

c) Define GFR. Give its normal value. State the determinants of GFR.

d) Draw a neat and labeled diagram of visual pathway. Discuss the various lesions across the pathway

e) Define immunity. Discuss cell mediated immunity

f) Define homeostasis. Describe the positive feedback mechanism

[5 × 7 = 35]

2. Short answer question (any five out of six):

a) Discuss the characteristic features of pulmonary circulation

b) Define Shock. Discuss the various stages of circulatory shock.

c) Describe the role of insulin in blood glucose homeostasis

d) Functions of basal ganglia. Add a note on Parkinsonism.

e) Give the classification of nerves. Explain any 4 properties of the nerves.

f) Discuss the various physiological changes observed in a person acclimatized at high altitude

SECTION "B" (LAQ) (30 Marks)

[1 × 15 = 15]

3. Long answer question (any one out of two):

a) State the various modes of carbon dioxide transport in blood. Describe in detail the Chloride shift. Discuss Haldane effect.

b) i) Define cardiac output, stroke volume, cardiac index, & ejection fraction with their normal values. [4]

ii) Discuss the determinants and factors affecting the cardiac output. [9]

iii) Name any 2 methods for measuring cardiac output. [2]

[1 × 15 = 15]

4. Long answer question (any one out of two)

a) Discuss in detail the various properties of skeletal & cardiac muscles. [11]

b) i) Describe the dorsal column pathway. [2]

ii) Describe the sensations carried by this tract. [2]

iii) What is sensory ataxia?



[Total No. of Pages : 1

63113

First B.P.T.H. (2012) Examination, Summer - 2021
BIOCHEMISTRY

Total Duration : 2 Hours

Total Marks :40

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3) All questions are compulsory.

4) The number to the right indicates full marks.

5) Draw diagrams wherever necessary.

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7) Use a common answer book for all sections.

1. Short answer question (**any five** out of six): [5 × 3 = 15]
   a) Nutritional importance of calcium.
   b) Wald's visual cycle.
   c) Functions of essential fatty acids.
   d) Diagnostic and prognostic enzymes in cardiac disease.
   e) Define and classify vitamins.
   f) Difference between starch and glycogen.

2. Short answer question (**any five** out of six): [5 × 5 = 25]
   a) Give definition, types and clinical features of diabetes mellitus.
   b) Write functions, sources, deficiency manifestations of iron.
   c) Describe functional classification of proteins with suitable examples.
   d) Describe the metabolism of glycogen.
   e) Define BMR. Give its normal value in adults and factors affecting BMR.
   f) Describe mechanism of action of steroid hormones.

[Total No. of Pages : 2

63114

First B.P.T.H. (2012) Examination, Summer - 2021
FUNDAMENTALS OF KINESIOLOGY AND KINESIOTHERAPY

Total Duration : 3 Hours

Total Marks : 80

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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 - A (SAQ) (50 Marks)

1. Short answer question (any five out of six): [5 × 3 = 15]

a) Mechanical advantage

b) Angle of Pull

c) Shoulder wheel.

d) Sarvangasana

e) Three measures to induce Local Relaxation

f) General Contra indications to Massage.

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2. Short answer question (any five out of six): [5 × 7 = 35]

a) Physical principles of hydrotherapy

b) Describe the positions derived from Kneeling with muscle work.

c) Define and Classify of Active movements. Write short notes on Free Exercises.

d) Define force and discuss mechanics of force.

e) What are the Components of fitness? Write short notes on Warm up and cool down exercises.

f) Definition, uses, indications & contraindications of Yoga.

SECTION - B (LAQ) (30 Marks)

3. Long answer question (any one out of two): [1 × 15 = 15]

a) Discuss the technique of Lower limb Massage in detail. What are the indications, Contra indications and Effects & uses of Lower limb Massage. [5+5+5]

b) Define Suspension Therapy. What are the types of Suspensions? Describe the Techniques of axial suspension for Hip Abduction. [2+5+8]

4. Long answer question (any one out of two) [1 × 15 = 15]

a) Define Goniometry. What are the uses of Goniometry? Describe the technique of Shoulder joint Goniometry. [2+5+8]

b) Define Relaxed Passive movements, what are it's effects & uses? describe the technique of performing Relaxed Passive movement of hip joint. [2+5+8]