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63111

First B.P.TH. (2012) Examination, (Phase - III) Winter - 2023
HUMAN ANATOMY

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

SECTION - A & SECTION - B

Instructions :
1) *Use **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 answerbook for **all** sections.*

SECTION "A" SAQ (50 Marks)

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

a) Draw neat and labelled diagram of anterior relations of Right kidney.

b) Enlist the arteries supplying the stomach

c) Enumerate the coverings of Spermatic cord

d) Enumerate neuroglial cells

e) Draw and label a diagram depicting microanatomy of longitudinal section of skeletal muscle

f) Enumerate the layers of Cornea

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

a) Describe the boundaries and contents of cubital fossa.

b) Describe dorsiflexors of the foot. Add a note on Foot drop.

c) Describe the structures under cover of Gluteus Maximus.

d) Explain the relations of Mediastinal surface of both lungs

e) Draw and label a diagram depicting the brachial plexus. Explain anatomical basis of Klumpke's palsy

f) Describe the origin, course, branches and termination of the Right Coronary Artery. Add a note on its applied anatomy.

SECTION "B" LAQ (30 Marks)

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

a) Describe Shoulder joint under following heads

i) Type and formation [2]

ii) Ligaments and support [3]

iii) Relations [3]

iv) Movements and muscles producing movement [4]

v) Applied anatomy [3]

b) Describe Femoral Triangle under following heads

i) Boundaries [3]

ii) Contents [6]

iii) Femoral Sheath and Femoral Canal [4]

iv) Applied anatomy [2]

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

a) Describe Cerebellum under following heads

i) Parts [3]

ii) Connections [4]

iii) Functions [3]

iv) Blood supply [2]

v) Applied anatomy [3]

b) Describe Fascial nerve under following heads

i) Nuclei and functional components [4]

ii) Course and distribution [4]

iii) Branches [3]

iv) Applied anatomy [4]

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First B.P.TH. (2012) Examination, (Phase - III) Winter - 2023
HUMAN PHYSIOLOGY

Total Duration : 3 Hours | Total Marks : 80

Instructions :
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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 answerbook for **all** sections.

SECTION "A" SAQ (50 Marks)

1. Short answer question (**Solve any** 5 out of 6): **[5×3=15]**

a) Define Synapse. Enumerate any 6 properties of synapse.

b) Explain Baroreceptor reflex mechanism.

c) Define Law of Gut. What are the principal movements seen in GIT?

d) Give composition and functions of blood..

e) Draw a neat & labeled diagram of Neuromuscular Junction. Add a note on myasthenia gravis.

f) Define Homeostasis. Add a note on Negative feedback mechanism.

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2. Short answer question (**Solve any** 5 out of 6) : **[5×7=35]**

a) Describe functions of Cerebellum.

b) Describe Ovarian Cycle.

c) Describe the withdrawal & crossed extensor reflexes in spinal cord.

d) Define erythropoiesis. Explain stages of erythropoiesis.

e) Give physiological actions of thyroid hormones.

f) Define cardiac output. Explain the factors affecting cardiac output.

SECTION "B" LAQ (30 Marks)

3. Long answer question (**Solve any** 1 out of 2): **[1×15=15]**

a) Describe Cardio-respiratory changes during various phases of exercise.

b) Draw & Describe the oxygen hemoglobin dissociation curve. State the significance of its sigmoid shape. Describe briefly the factors affecting the shift in curve.

4. Long answer question (**Solve any** 1 out of 2): **[1×15=15]**

a) Define Resting membrane potential (RMP). Explain genesis of RMP. Why RMP is close to the equilibrium potential of K+ ions?

b) Define Circulatory Shock. What are the other types of shock? Describe compensatory mechanisms in Circulatory Shock.

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First B.P.TH. (2012) Examination, (Phase - III) Winter - 2023
BIOCHEMISTRY

Total Duration : 2 Hours

Total Marks : 40

Instructions : 1) *Use **black** ball point pen only.*
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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 answerbook for **all** sections.*

1. Short answer question (**any five** out of six) : [5×3=15]
   a) What are prostaglandins. Write two biochemical functions of prostaglandins
   b) Explain Liver function test based on enzymatic function.
   c) Give a brief account of chemistry of Hemoglobin.
   d) Diagrammatic presentation of Electron transport chain.
   e) Explain Deamination.
   f) Give the Functions, Sources and RDA for Folic acid.

2. Short answer question (**any five** out of six): [5×5=25]
   a) Define and classify hormones based on mechanism of action with suitable example.
   b) Explain Basal Metabolic Rate and factors affecting it.
   c) Explain the beta-oxidation of fatty acids.
   d) Give the functions, sources and deficiency manifestations of Zinc and selenium.
   e) Explain the digestion and absorption of proteins.
   f) Give the importance of cholesterol in body. Explain obesity.

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63114

First B.P.TH. (2012) Examination, (Phase - III) Winter - 2023
FUNDAMENTALS OF KINESIOLOGY AND KINESIOTHERAPY

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

SECTION - A & SECTION - B

Instructions :
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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 answerbook for **all** sections.

SECTION "A" (SAQ) (50 Marks)

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

a) Centre of gravity

b) Define Cardinal Planes

c) Types of Muscle work

d) Angle of Pull

e) Define Newtons Third law of motion.Give one example

f) Mechanical Advantage in lever

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

a) Principles of Hydrotherapy.

b) Define group exercises.write merits and demerits of group exercise.

c) Active and passive insufficiency

d) Paschimottanasana-Describe Technique, benefit and contraindication of asana.

e) Mention and Describe any three gymnasium equipment used for mobilization of shoulder joint.

f) Describe kneeling position with its muscle work.

SECTION "B" (LAQ) (30 Marks)

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

a) Define Anatomical lever.Classify and describe lever with appropriate examples.

b) Define goniometry. Explain principles and advantages of goniometry. Describe types of goniometer in detail.

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

a) Define and Classify massage.Explain physiological effects of massage. Mention indication and contraindication of massage.

b) Define Suspension.Classify types of suspension.Describe application of suspension at shoulder joint to improve its range in saggittal plane (flexion & extension).

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First B.P.TH. (2012) Examination, (Phase - III) Winter - 2023
FUNDAMENTALS OF ELECTRO THERAPY

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

SECTION - A & SECTION - B

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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 answerbook for **all sections**.*

SECTION "A" SAQ (50 Marks)

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

a) Define condensers. Write down its principles.

b) Grid system at house.

c) Write a note on electromagnetic induction.

d) What are Eddy currents?

e) Write down Lenz's law.

f) What is magnetism? Write it's types.

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

a) What is electromagnetic spectrum?write down laws governing it.

b) Explain environmental currents and their role in Physiotherapy.

c) Write down principle of IFT. Draw a panel diagram and production of IFT.

d) Give the therapeutic effects of superficial heat.

e) What is Contrast bath? Give its indications and contraindications.

f) Write down indications and contraindications of cryotherapy.

SECTION "B" LAQ (30 Marks)

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

a) What are Faradic Currents?write down different types of faradic currents with waveforms. Write down its uses.

b) Write down production and circuit diagram of Short Wave Diathermy.

4. Long answer question (**any one** out of two): |1×15=15|

a) Write down principle of Ultra Sound. Explain its production with panel diagram.

b) What is beat frequency?Write the principle and production of IFT. Explain the IFT machine with panel diagram.

Describe construction of luminous & non-luminous Infra-red generators, note on short and long IR.

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