

[LH 0815]

AUGUST 2015

Sub. Code: 1206

B.Sc. CRITICAL CARE TECHNOLOGY

(New Syllabus 2014-2015)

FIRST YEAR

PAPER I – ANATOMY AND BIOCHEMISTRY

Q.P. Code: 801206

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain kidney under following heading:
a) Definition b) Dimension c) External feature d) Relations
2. Diaphragm – Origin, Insertion, Nerve supply, Action and name its opening with contents.
3. Define Enzymes, what are the factors affecting Enzyme activity.

II. Write notes on:

(8 x 5 = 40)

1. Circle of Willis.
2. Write a note on B-complex vitamins.
3. Pain pathway.
4. Define cartilage, and types of cartilage.
5. Functional classification of proteins.
6. Coronary circulation.
7. Explain pleura and pleural recesses.
8. Pharynx.

III. Short Answers on:

(10 x 3 = 30)

1. Intercostal space and its contents.
2. Name the endocrine glands.
3. Basal metabolic rate.
4. Name the ear ossicles.
5. Acromegaly.
6. Pericardium.
7. Buffers.
8. Chromatolysis.
9. Sartorius muscle.
10. Arteriosclerosis.

[LI 0216]

FEBRUARY 2016

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FIRST YEAR

Paper I – ANATOMY AND BIOCHEMISTRY

Q.P Code : 801206

Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain urinary bladder under following heading:
 - a. Definition
 - b. Dimension
 - c. External feature and Relations
2. Explain liver with dimension, external feature, ligaments, lobes and relations.
3. Classify lipids with examples.

II. Write Notes on:

(8 x 5 = 40)

1. Trachea.
2. Valves of heart.
3. Fluid electrolyte balance.
4. Explain ureter.
5. Diagnostic importance of enzymes in diseases.
6. Thyroid gland and its functions.
7. Draw clavicle and label the parts of the bone.
8. Gluteus maximus – origin, insertion, nerve supply and action.

III. Short Answers on:

(10 x 3 = 30)

1. Define pH.
2. Explain mediastinum.
3. Neurons and its types.
4. Mitochondria.
5. Name the parts of respiratory system.
6. Essential amino acid.
7. Diabetes mellitus.
8. Classify the types of bones.
9. Pituitary Gland.
10. Renal calculi.

[LJ 0816]

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Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain blood supply of brain in detail with suitable diagrams. Add a note on Circle of Willis.
2. Write in detail about the measurements, structure, relations and applied anatomy of Trachea.
3. Enumerate the energetics and regulation of Glycolysis.

II. Write Notes on:

(8 x 5 = 40)

1. Ligaments of Liver.
2. Common Carotid Artery.
3. Citric Acid Cycle.
4. Adrenal Gland.
5. Basal Metabolic Rate.
6. Electrophoresis.
7. Bronchopulmonary segments of lung.
8. Features and types of Synovial joint.

III. Short Answers on:

(10 x 3 = 30)

1. What is winging of scapula?
2. Give the functional classification of proteins.
3. What is chromatolysis?
4. Name the structures forming Waldeyer's ring.
5. What are surfactants? Give its functions.
6. Write the functions of Bile.
7. Name the coverings of Kidney.
8. What is the role of cerebrospinal fluid?
9. Name the arteries supplying thyroid gland.
10. What is Pellagra?

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Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe Kidney under the following headings.
a) Location b) Coverings c) Relations d) Blood supply.
2. Enumerate the gross anatomy of Thyroid Gland in detail.
3. Explain the factors regulating acid base balance.

II. Write Notes on:

(8 x 5 = 40)

1. Islets of Langerhans.
2. Deltoid muscle.
3. Unsaturated fatty acids.
4. Great saphenous vein.
5. Glycolysis.
6. Enumerate the differences between Kwashiorkar and Marasmus.
7. Muscles of Pharynx.
8. B - Complex vitamins.

III. Short Answers on:

(10 x 3 = 30)

1. How many carpal bones are present? Name them.
2. What is Hilton's Law?
3. Name the functions of Anti- diuretic hormone.
4. What is Erb's point?
5. What are the causes of Vitamin A deficiency?
6. Name the tributaries of superior vena cava.
7. What is Benedict's test?
8. Name the endocrine glands.
9. Mention the factors affecting Basal Metabolic Rate.
10. What are Buffers?

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Q.P Code : 801206

Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the blood supply of heart with suitable diagrams.
2. Describe Pancreas under the following headings.
a) Situation b) Parts c) Relations d) Blood supply.
3. Classify lipids based on their chemical composition and add a note on fatty acids.

II. Write Notes on:

(8 x 5 = 40)

1. Pain pathway.
2. Pleura and pleural recesses.
3. Factors affecting enzyme activity.
4. Electrophoresis.
5. Hexose monophosphate shunt pathway.
6. Cephalic vein.
7. Biotin.
8. Structure and functions of diaphragm.

III. Short Answers on:

(10 x 3 = 30)

1. Name the features of thiamine deficiency.
2. What are the different types of cartilages?
3. Enumerate the principle underlying Benedict's reaction.
4. Write the branches of arch of aorta.
5. What are the muscles present in the front of forearm?
6. Mention the arteries taking part in the formation of Circle of Willis.
7. What is prothrombin time?
8. Name the parts of a long bone.
9. Write any four functions of lipids.
10. Name the hormones secreted by pituitary gland.
