January 2018

BLDE UNIVERSITY

MBBS PHASE - I EXAMINATION

[Time: 3 Hours] [Max.Marks: 100]

BIOCHEMISTRY – PAPER - I

QP CODE: 1025

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in left side of margin.

Long Essay: (Answer should be started on fresh page only) **1x10 = 10**

1. Mention various types of oxidation of fatty acids. Write in detail the β-oxidation of fatty acids. Add a note on energetics of palmitic acid.

Short Essay: (Answer should be started on fresh page only) **5 x 5 = 25**

2. Mucopolysaccharides
3. Factors regulating enzyme activity
4. Ketone body synthesis
5. Calcium regulation
6. Biochemical functions, deficiency manifestations of vitamin C.

Short Answers: (Leave three lines gap between the answers) **5 x 3 = 15**

7. Tumor markers
8. Balanced diet
9. Inhibitors of electron transport chain
10. Coenzymes with suitable examples
11. Enumerate disorders of urea cycle

QP CODE: 1026 PAPER II

Use separate answer book

Long Essay: (Answer should be started on fresh page only) **1 x 10 = 10**

1. Describe in detail replication of DNA. Add a note on the inhibitors of replication.

Short Essay: (Answer should be started on fresh page only) **5 x 5 = 25**

2. pH regulation by respiratory system.
3. Liver function tests
4. Porphyrias
5. Biochemical functions of calcium
6. Oxidative phosphorylation

Short Answers: (Leave three lines gap between the answers) **5 x 3 = 15**

7. Folate trap
8. Alkaptonuria
9. Essential fatty acids
10. Features of genetic code
11. Lactose intolerance

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[Time : 3 Hours] **[Max.Marks : 100]**

BIOCHEMISTRY PAPER - I
QP CODE : 1015

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in left side of margin.
Use separate answer books for Paper – I and Paper – II

Long Essay: (Answers to be started on fresh page only) **1 x 10= 10**

1. Describe HMP pathway with its energetic.Add a note on G6PD deficiency

Short Essay: (Answers to be started on fresh page only) **5 x 5= 25**

2. Sulphur containing amino acids.
3. Define Phosphorylation. Explain chemiosmotic theory.
4. IUBMB system of nomenclature of enzymes.
5. Scurvy.
6. Ketogenesis.

Short Answers: (Leave three lines gap between the answers) **5 x 3= 15**

7. Define what are radioisotopes? Write any two diagnostic applications.
8. Respiratory mechanism for maintenance of acid base balance.
9. Cell membrane composition.
10. Prostaglandins.
11. Plasma proteins.

QP CODE : 1016 PAPER II

Use separate answer book

Long Essay: (Answers to be started on fresh page only) **1 x 10= 10**

1. Write the sources ,daily requirements, factors affecting absorption and biochemical functions of Calcium in the body. Add a note on Osteomalacia.

Short Essay: (Answers to be started on fresh page only) **5 x 5= 25**

2. Translation.
3. Citric acid Cycle.
4. Biochemical changes during starvation.
5. SDA of food.
6. Mechanism of action of peptide hormones.

Short Answers: (Leave three lines gap between the answers) **5 x 3= 15**

7. Dehydration
8. What are Anti oncogenes and name four tumour markers.
9. Abnormal haemoglobin derivatives.
10. Neurotransmitters.
11. Genetic code.