

QP Code:

Reg.No.:.....

MD Degree Examinations in Biochemistry
(Model Question Paper)

Paper I –GENERAL BIOCHEMISTRY, ENZYMES & BIostatISTICS

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Discuss the various radioactive isotopes used in diagnosis of diseases and add a note on Biological effects of radiation.

Short essays:

(8X10=80)

2. Odds ratio.
3. Serine proteases.
4. Protein sequencing.
5. Isomerisms of sugar
6. Mass spectrometry
7. Nucleotide analogues.
8. Poly unsaturated fatty acids.
9. Structural alterations in oxy and deoxy haemoglobin

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Paper II – MOLECULAR BIOLOGY, IMMUNOLOGY & CANCER

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Discuss the entire process of eukaryotic replication and add a note on nucleotide excision repair and its clinical importance.

Short essays:

(8X10=80)

2. Mutagens.
3. Hyper sensitivity
4. Acquired immunity.
5. DNA finger printing.
6. Oncosuppressor genes.
7. Mitochondrial myopathies.
8. Immunology of transplantation.
9. Regulation of gene expression by gene rearrangement

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Paper III – NUTRITION AND METABOLISM

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Name the heterocyclic aminoacids. Discuss the formation and functions of neurotransmitters formed from these aminoacids.

Short essays:

(8X10=80)

2. Prions.
3. Parenteral nutrition.
4. Formation of dUMP.
5. Deleterious effects of smoking.
6. Co enzyme functions of Riboflavin.
7. Free radical scavenging mechanism.
8. Metabolic adaptations in starvation.
9. Organisation of electron transport chain and its inhibitors.

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Paper IV – CLINICAL BIOCHEMISTRY & ENDOCRINOLOGY

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Mention the important buffer systems in the body. Discuss the various mechanisms involved in regulation of blood pH.

Short essays:

(8X10=80)

2. Fatty liver.
3. Gondotropins.
4. Point of care testing.
5. Hypothalamic neuro peptides.
6. Quality control programmes.
7. Glycogen storage disorders.
8. Enzyme profile in liver disease.
9. Prothrombin time and its significances
