



AJ-3466 Seat No. _____

First Year M. B. B. S. Examination

January - 2018

Biochemistry : Paper - II

Time : Hours]

[Total Marks : 50

SECTION - I

1 Write short notes : (any two) 5×2=10

- (1) Gout
- (2) PCR
- (3) Genetic engineering.

2 Write notes : (any three) 3×3=9

- (1) Western blot
- (2) Monoclonal antibody
- (3) Genetic code
- (4) Post-translational modifications
- (5) Telomere.

3 Write short notes : (any two) 3×2=6

- (1) Balanced diet
- (2) PEM
- (3) Obesity.

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[Contd...

SECTION - II

- 4 Write short notes : (any two) 5×2=10
- (1) Iron deficiency - causes and manifestations
 - (2) Urea cycle
 - (3) Important products synthesized from Glycine.
- 5 Write short notes : (any three) 3×3=9
- (1) Biochemical role of Vit. C
 - (2) Methyl folate trap
 - (3) Deficiency manifestations of Vit. D
 - (4) Purine salvage pathway
 - (5) Biologically important nucleotides.
- 6 Read the following case history and answer the 6 questions asked below :
- A one year old child with delayed milestones was brought to hospital. His mother gave the history of mousy odour from diapers.
- (1) What is the probable diagnosis ?
 - (2) What is the biochemical cause for mousy odour ?
 - (3) What are inborn errors of aromatic amino acid metabolism ?
 - (4) What are essential amino acids ?
 - (5) Name the test for diagnosis of this condition.
 - (6) What dietary advice is to be given to this child ?
 - (7) Which non-essential amino acid become dietary essential in this child ?
 - (8) Name important products synthesized from aromatic amino acids.