## First Professional MBBS Degree Examinations - August 2015 **BIOCHEMISTRY- PAPER I Time: 3 Hours**

- Answer all questions Draw diagrams wherever necessary Essav (10) 1. Enumerate the components of electron transport chain. Describe the synthesis of ATP. Indicate the site specific inhibitors. Mention two examples for uncouplers. (4+2+2+2=10)Short essays (2x5=10)2. Gluconeogenesis 3. Diagnostic significance of serum enzymes Short notes (5x3=15)4. Digestion of carbohydrates 5. Essential fatty acids 6. Denaturation 7. Principle of chromatography 8. Name three glycogen storage diseases and its biochemical defect **Answer briefly** (5x2=10)9. Role of carnitine 10. Define isoelectric pH. State properties of a protein at its isoelectric pH 11. Importance of HMP shunt pathway 12. Sources of ammonia 13. Allosteric enzymes Give precise answers: (5x1=5) 14. Name the biochemical defect in Nieman-pick disease 15. Zymogen activation 16. Mention the reaction catalyzed by ATP-citrate lyase
- 17. Mention two biologically active peptides
- 18. Mention one therapeutic use of enzyme

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## Q.P. Code: 105001

## Reg. no.: .....

**Total Marks: 50**