Sl.No: M19070 Course Code: 1310113

# VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

# BDS DEGREE EXAMINATION – August 2018 First Year

# **BIOCHEMISTRY**

Time: Three hours Maximum: 100 marks

# **SECTION – A Answer ALL Questions**

I. ESSAY:  $(1 \times 15 = 15)$ 

1. Write the normal blood sugar level. Describe the hormonal regulations of blood sugar and give three features of diabetes mellitus.

## II. WRITE SHORT NOTES ON:

 $(3 \times 5 = 15)$ 

- 2. Fluoride in dental health
- 3. Active form of vitamin D and its functions
- 4. Factors affecting enzyme activity

#### III. WRITE BRIEFLY ON:

 $(10 \times 2 = 20)$ 

- 5. Ketosis
- 6. Scurvy
- 7. Significance of HMP shunt pathway
- 8. Four functions of lipids
- 9. Lipoproteins
- 10. Names of mucopolysaccharides
- 11. Dietary fibre
- 12. Name of glycogen storage diseases
- 13. Cholesterol
- 14. Lactose intolerance

### **SECTION - B**

# **Answer ALL Questions**

IV. ESSAY:  $(1 \times 15 = 15)$ 

15. Explain classification of aminoacids in detail.

## V. WRITE SHORT NOTES ON:

 $(3 \times 5 = 15)$ 

- 16. Gout
- 17. Mutation
- 18. Hemoglobin

### VI. WRITE BRIEFLY ON:

 $(10 \times 2 = 20)$ 

- 19. Abnormal constituents of urine
- 20. Porphyria
- 21. Glycated hemoglobin (HbAlc)
- 22. Reference ranges of serum urea and uric acid
- 23. Translation
- 24. Plasma proteins
- 25. Four causes of jaundice
- 26. Second messengers
- 27. Ketogenic amino acids
- 28. Isoelectric pH

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