Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec - 2017**

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| **Code :** | **17AG1003** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF PLANT BIOCHEMISTRY** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course Outcome** | **Marks** |
|  | | **PART-A(10X1=10 MARKS)** | | |
| 1. | An example of milk Protein is -----------------. | | CO1 | 1 |
| 2. | The process of alkali hydrolysis of oil is called -----------. | | CO3 | 1 |
| 3. | The green colour of chloroplasts is due to -------------------. | | CO2 | 1 |
| 4. | Terpenes are synthesized through ------------------ path way. | | CO1 | 1 |
| 5. | Cellulose contains glucose units attached through ------------- linkage. | | CO1 | 1 |
| 6. | Globulins are soluble in -------------------. | | CO3 | 1 |
| 7. | Amylase hydrolyse ---------------- linkage of starch. | | CO1 | 1 |
| 8. | Isomerism is due to --------------------- carbon atom. | | CO1 | 1 |
| 9. | ---------------------- is an example of aromatic amino acid. | | CO3 | 1 |
| 10. | NADPH is produced in ------------------ path way of glucose catabolism. | | CO1 | 1 |

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|  | | **PART B(5 X 3= 15 MARKS)** | | |
| 11. | Define rancidity and its types? | | CO3 | 3 | |
| 12. | Application of secondary metabolites in food industries? | | CO1 | 3 |
| 13. | What are essential amino acids? Give examples? | | CO3 | 3 |
| 14. | Write short notes on oxidative phosphorylation? | | CO1 | 3 |
| 15. | Give the role of cell wall in food industries? | | CO2 | 3 |

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|  | | **PART C(5 X 15= 75 MARKS)** | | | |
| 16. |  | | Explain the Electron transport chain and ATP formation? | CO1 | 15 |
|  | | (OR) | | | |
| 17. |  | | Explain the Classification of proteins and color reaction of protein? | CO3 | 15 |
|  |  | |  |  |  |
| 18. |  | | Explain the Classification of lipids and their industrial application? | CO3 | 15 |
|  | | (OR) | | | |
| 19. |  | | Explain the application of secondary metabolites of plants in food industry? | CO1 | 15 |
|  |  | |  |  |  |
| 20. |  | | Write in detail about oxidation of fatty acid and elaborate on beta oxidation? | CO3 | 15 |
|  | | (OR) | | | |
| 21. |  | | Explain the biosynthesis of fatty acid? | CO1 | 15 |
|  |  | |  |  |  |
| 22. |  | | Explain the biosynthesis of carbohydrates? | CO1 | 15 |
|  | | (OR) | | | |
| 23. |  | | Explain the Classification, functions of alkaloids and their industrial uses? | CO1 | 15 |
|  |  | |  |  |  |
| 24. |  | | Explain in detail about DNA replication in plants? | CO3 | 15 |
|  | | (OR) | | | |
| 25. |  | | Describe the different immobilization techniques and their industrial application? | CO3 | 15 |

ALL THE BEST