

10. Cyclin is associated with.....
- a. Leptospirosis
 - b. Glycolysis
 - c. Cylosis
 - d. Mitosis

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1.& any two (2) from the rest]

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| 1. Write short notes on: | 2.5+2.5=5 |
| a) Structure of Nucleus | |
| b) Plasma membrane structure | |
| 2. Different cyclin Cdk's are responsible for triggering different stages of the cell cycle. Elaborate. | 10 |
| 3. Explain how the binding of a ligand initiates signal transduction throughout a cell with a suitable example of GPCRs and the role of secondary messenger for cellular response. | 10 |
| 4. What is epigenetics? Explain heterochromatin and euchromatin. | 2+4+4=10 |
| 5. Explain fluorescence and phase contrast microscope with diagrams. | 5+5=10 |

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