

COURSE CODE: 10B22CI621

COURSE NAME: Information Systems

COURSE CREDITS: 04

MAX. MARKS: 15

MAX. TIME: 1 HR

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Arrange in ascending order the enterprise architectures (1-Tier, 2-Tier, 3-Tier) according to the possibility of occurrence of each of the following issues: [3 Marks]
 - a. Request queuing
 - b. System design cost
 - c. Un-responsiveness due to limitation of resources
2. Why is 'inflexibility' desired in Transaction Processing Systems? [2 Marks]
3. What are OLAP and OLTP systems? What is their purpose in an organization's information system? How do they relate to TPS and MIS? What is the control flow and information flow relation between the OLAP and OLTP? [5 Marks]
4. Consider a freehand illustration creator application (shown in the figure below). An illustration is a list of points and their corresponding locations and a color. A user of the application can keep working on the illustration by adding points at various locations. The application provides an option of changing color in which case all points are replaced by new points of the chosen color at the same locations. The application also provides the option of saving the illustration by clicking on the save button. Create a class diagram for the application based on MVC architecture. [5 Marks]

