

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY.**

**BIT 2321 SOFTWARE ENGINEERING II.**

**CAT 2 Take Away 14th Jan 2025**

Answer ALL Questions.

1. Discuss the role of metrics and management in Software Engineering. Explain People Metric as well. (10 marks)
2. With a clear diagram and an appropriate example, illustrate the mechanism of Transaction Processing Monitors as a middleware (10 marks)
3. In a library management system, we have the following functional requirements; User Management, Borrow Books, Reserve Book, Book Inventory, Report Generation, Search and Navigation, Finne calculation.

Required: Draw a level Zero DFD with a complete representation of all the symbols. (10 marks)

1. Write a simple application using XML to query a specific song from a server and feedback to the customer. If the song is unavailable, let the program respond with an appropriate message. Hint: Use the example for querying currencies of a country in SoapUI tool (10 marks)