**UNIT CODE: BIT2206 UNIT TITLE: SYSTEM ANALYSIS AND DESIGN**

**CAT**

**ANSWER ALL QUESTIONS**

1. During the design and development of a computerized information processing system, various types of documentation are produced. Explain at least two types and four functions performed by some of these documentations. (4marks)
2. Given the following narrative description, draw a context (high level) DFD for the portion of the activities described.

The purpose of the TEXTBOOK INVENTORY SYSTEM at a campus bookstore is to supply textbooks to students for classes at a local university. The university’s academic departments submit initial data about courses, instructors, textbooks, and projected enrollments to the bookstore on a TEXTBOOK MASTER LIST. The bookstore generates a PURCHASE ORDER, which is sent to publishing companies supplying textbooks. Book orders arrive at the bookstore accompanied by a PACKING SLIP, which is checked and verified by the receiving department. Students fill out a BOOK REQUEST that includes course information. When they pay for their books, the students are given a SALES RECEIPT. (4 marks)

1. Assuming you are senior systems analysts working in an IT department of a large organization that currently uses the traditional SDLC as the standard for developing new systems. You have been asked by your manager to examine a number of structured systems methodologies with a view to recommending the most appropriate one to be adopted by the company. Explain five features of the structured approach to systems analysis and design. (6 marks)
2. What is the difference between validation and verification? (4 marks)
3. Distinguish between function requirement and non-functional requirement, citing an example in each case. (6 marks)
4. Describe four types of tests in system implemented. (4marks)