

Chapter 2– System Analysis and Design

- 1) System prototyping helps the designer in
 - a) Making the programmers understand how the system will function
 - b) Communicating to the users, quickly, how the system, when developed, will look like and get a feedback
 - c) Giving a demo of the software, to the system manager to whom he reports
 - d) Both a and b
- 2) Which of the following systems implementation approaches should be used if you want to run the old system and the new system at the same time for a specified period?
 - a) Direct
 - b) Parallel
 - c) Pilot
 - d) Phased
- 3) What is the first phase in the systems life cycle?
 - A. System analysis
 - B. Systems design
 - C. System maintenance
 - D. Preliminary investigation
- 4) The evaluation of an alternative system for feasibility is done in phase
 - A. One
 - B. Two
 - C. Three
 - D. Four
- 5) Which of the following tools show information flow within an information system?
 - A. CASE
 - B. Data flow
 - C. Grid chart
 - D. System flow
- 6) The Government has introduced e-ticketing for buses in Fiji. Name the suitable method of system conversion used and why?

- 7) In Phase 3, designing of alternative systems are normally carried out. Explain each of the three feasibility studies?
- 8) Define the term:
 - A. Prototyping
 - B. RAD
- 9) Differentiate between prototyping and RAD?
- 10) Give two advantage and disadvantages of prototyping?
- 11) Differentiate between direct approach and phased approach in relation to system conversion?
- 12) Differentiate between direct approach and parallel approach in relation to system conversion?
- 13) In phase 1, preliminary investigation. Discuss the last step.
- 14) Name and discuss the two steps carried out in phase 6?
- 15) State two ways to gather data in phase 2?
- 16) Differentiate between system flowchart and data flow diagram?

Each question is worth 10 marks. Write an essay of about 200 words to answer each question.



QUESTION 1

SYSTEM ANALYSIS AND DESIGN

[10 marks]

A System Analyst has been hired by Land Transport Authority (LTA). After successfully completing the first **three** phases of the System Development Cycle, LTA decided to develop and convert to an Automated Land Transport System (ALTS).

With reference to the above statement, discuss:

-  with relevant examples how the System Analyst will assist the LTA in the following
 - the development phase (**3 marks**)
 - the implementation phase (**3 marks**)
-  the conversion method LTA should implement and state the reason for your recommendation. (**3 marks**)