CSC – Systems Analysis **TO33** Monday, 14/11/2016 08:30 – 11:30 WORKFORCE DEVELOPMENT AUTHORITY



ADVANCED LEVEL NATIONAL EXAMINATIONS, 2016, TECHNICAL AND PROFESSIONAL STUDIES

EXAM TITLE:	Systems Analysis	
OPTION:	Computer Science	(CSC)
DURATION:	3hours	

INSTRUCTIONS:

The paper is composed of three (3) main Sections as follows:

Section I: Fourteen (14) compulsory questions.	55 marks
Section II: Attempt any three (3) out of five questions.	30 marks
Section III: Attempt any one (1) out of three questions.	15 marks

Note:

Every candidate is required to carefully comply with the above instructions. Penalty measures will be applied on their strict consideration.

01. In which way is physical DFD useful?

05. What is an Information System?

gather and analyze?

Section I. Fourteen (14) Compulsory questions

- O2. Why is it recommended to document and to train on the software being used just while implementing it?3marks
- O3. Differentiate open ended questions from closed ended questions and give example for each.3marks
- **04.** Distinguish True from False for the following statements. Use the table below.
 - A collection of components that work together to realize some objectives forms a system.
 - System life cycle is not an organizational process of developing and maintaining a system.
 - In the system analysis and design terminology the system development life cycle means software development life cycle.
 - Coding is a step of SDLC that follows implementation phase.
 - System analysis and system design are the same phase of system development life cycle.

True statements	False Statements	
	2 2 2 3	

	5	
06.	Differentiate functional from no functional requirements of a system.	3marks
07.	Why do businesses need Systems Analysts?	3marks
08.	Why are system tests necessary just before implementing a developed s	system?
		3marks
09.	What are the initial two steps followed by a system analyst when he is	
	requested to design an information system?	3marks
10.	List at least three main differences between Data Flow Diagram (DFD) a	and
	flowchart.	6marks
11.	Explain the term "End- User".	4marks
12.	Define: software error, software fault and software failure.	6marks
13.	Describe a system analyst.	5marks
14.	Mention what are the types of requirements that a system analyst shou	ıld
	rether and analyze?	5marks

WDA/TVET - CSC - Systems Analysis - Academic Year 2016

55marks

3marks

5marks

3marks

Section II. Choose and answer any three (3) questions.

- 15. During design phase, there are three primary ways to approach the creation of 10marks new system. Explain them.
- 16. There are two main data storage formats, file and database. Explain following terms:
 - a. Master files
 - b. Transaction files
 - c. Look up file
 - d. Audit file
- 17. Testing occurs during the implementation phase. Explain:
 - (a) Unit testing
 - (b) Integration testing
 - (c) Black box testing
 - (d) System testing
- 18. a. Explain the project work plan.
 - b. Explain the importance of showing tasks dependencies in software project 10marks management.
- 19. Interview is one of the techniques used for data/information collection. 10marks Differentiate the three types of interview questions.
- 15marks Section III. Choose and answer any one (1) question.
- **20.** Explain the following three fundamental types of user documentations:
 - (1) Reference documents
 - (2) Procedures manuals
 - (3) Tutorials
- **21.** What is primarily done during the design phase?
 - (a) Explain three strategies among which a company may choose during the design phase
 - (b) What is the importance of support plan established during implementation phase?
- 22. (A) Explain the break-even-point, a technique used to measure the software project's worth.
 - (B) Explain the Organizational feasibility.

30marks

10marks

10marks