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NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCE
2021_2 EXAMINATION

COURSE CODE: CIT432
COURSE TITLE: Software Engineering II
CREDIT: 3 Units
TIME ALLOWED: 2½ Hours
INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions

1(a) How is verification different from validation in software testing ?[2 marks]
(b) Carry out a comparative analysis of the waterfall model and the spiral model [4 marks]
(c) Give 2 strengths and 2 weaknesses of the Milestone Trend Analysis (MTA) [4 marks]
(d) Give 2 strengths and 2 weaknesses of the build and fix model [4 marks]
(e) Syntactically outline the FOR-NEXT construct and define the parameters in the construct [5 marks]
(f) Give 3 principles of software testing. [3 marks]

2(a) What are the drawbacks of Project body management of knowledge (PMBOK).[4marks]
(b) Carry out a comparative analysis of the build-and-fix model and the waterfall model with respect to when to use the models. [4 marks]
(c) What are considered in codes to qualify them good [4 marks]

3(a) Show syntactically the structure of the Block If-Then-Else construct [4 marks]
(b) Contrast the rapid prototype model and the synchronize and stabilize model [4 marks]
(c) Outline the goals of software requirements specifications. [4 marks]

4 (a) Carry out analysis of the first and second generations software evolution [4 marks]
(b) What are the basic differences between incremental model and waterfall model. [4marks]
(c) Give analysis of the strengths and weaknesses of fixed-format questionnaires [4 marks]

5(a) Carry out a comparative analysis of the fourth and fifth generations software evolution [4 marks]
(b) Deduce the basic reasons for articulating software life cycle model. [4 marks]
(c) Where and when is the rapid prototype model necessary to use ?[4 marks]

6(a) Outline the characteristics of a software. [4 marks]
(b) Give a comparative analysis of the low level language and the high level language. [4 marks]
(c) Where and when is the spiral model necessary to use ? [4 marks]