

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI – ABUJA FACULTY OF SCIENCES DEPARTMENT OF COMPUTER SCIENCE ...

2020_2 EXAMINATION

COURSE CODE: CIT333 COURSE TITLE: SOFTWARE ENGINEERING COURSE CREDIT: 2 UNITS TIME ALLOWED: 2 HOURS INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS

1)

- a) Briefly describe "Computer software" (11/2 marks)
- b) Highlight and discuss the types of computer software (9 marks)
- c) Identify the sub-disciplines of software engineering $(2^{1/2} marks)$
- d) Differentiate between "software configuration management" and "software engineering management" (2 marks)
- e) Discuss the goals attached to the software engineering (2 marks)
- f) Briefly discuss evolution areas of software engineering (2 marks)
- g) Briefly analyse some renowned software engineers with their specialization (4 *marks*)
- h) In the pioneer era, state any high level language developed to translate old software to meet the need of the new machines (*1 mark*)
- i) Analyse who the software engineer is (1 marks)
- 2) (a) Discuss who a software Engineer is. (4 marks)
 - (b) Outlineseven functions of a software Engineer. (7 marks)

(b) Describe **"Realistic"** and **"Investigative"** categories as occupational characteristics or features of a software Engineer. (*4 marks*)

- 3) (a) What do you understand by software crisis? (5 marks)
 (b) Discuss poor marketing efforts and lack of quality products as causes of software Engineering crisis. (10 marks)
- 4) (a) Define software development. (2 marks)
 - (b) Outline eight common stages in software development methodologies. (8 marks)
 - (c) Describe software life cycle using appropriate items. (5 marks)
- 5) Explain the following software life cycle model.
 - i) Waterfall model (5 marks)

- ii)
- V-Shaped model (5 marks) Incremental model (5 marks) iii)