

OLABISI ONABANJO UNIVERSITY, AGO-IWOYE COLLEGE OF ENGINEERING AND ENVIRONMENTAL STUDIES FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING 2020/2021 HARMATTAN SEMESTER EXAMINATION

COURSE CODE:

CPE 501

COURSE TITLE:

ii.

INTRODUCTION TO SOFTWARE ENGINEERING

COURSE UNIT:

TIME ALLOWED: 2 HOURS INSTRUCTION: ANSWER QUESTIONS 1 AND ANY OTHER 3

QUE	STION ONE	3 Marks 4 Marks
ai.	Explain briefly the term Software?	3 Marks
ii.	Describe the attributes of a good software.	
bi.	Explain Software Engineering in terms of features it must possess?	4 Marks

Briefly describe why software engineering methods are needed. 0 c.

	project sche	edule is given	n below; o	M	Y	-
	Activity	Precedents	Optimistic Time	Most likely Time	Pessimistic Time	
Ī	A		3	5	7	15
Ī	В	A	12	14	22	15
Ì	С	В	22	25	28	25
4	- D	В	10	15	20	15
1	Е	В	25	30 .	35	30
Ì	F	C, D	8	10	12	10
Ì	G	E,F	8	9	16	10
	Н	Ğ	3	5	7	5

Prepare a PERT network diagram using Activity on Node convention. i.

8 Marks

4 Marks

Identify the critical path and the critical time. ii.

2 Marks

OVESTION TWO

Explain briefly the "Software Development Life Cycle". a.

3 Marks

Describe the activities involved in SDLC. b.

8 Marks

Discuss the categories of software system requirements.

4 Marks

OUESTION THREE

Give detailed explanation with appropriate diagrams, stating two advantages and disadvantages each of the following Software development models; 10 Marks i. Waterfall ii. Iterative Model iii. Spiral Model iv. Prototyping Model

Explain Requirement Engineering in software engineering. b.

5 Marks

QUESTION FOUR

Requirement Engineering is a four-step process, explain these processes. 6 Marks a.

Describe with the aid of flow diagram only the Requirement Elicitation Process. 5 Marks b.

List and explain any three (3) requirement elicitation techniques.

4 Marks

QUESTION FIVE

Explain the term "SRS" and what is the importance of a SRS document? 6 Marks a.

What is software design? b.

3 Marks

Explain the three software design levels. c.

6 Marks

OUESTION SIX

4 Marks ii. Concurrency Explain the following terms; i. Modularization a.

Discuss what is meant by Software Testing? b.

5 Marks

What is Software project management? Identify the major components of software project c. 6 Marks management.

BEST OF LUCK!!!