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2023/TDC(CBCS)/EVEN/SEM/ BVOCGE-403T/384

TDC (CBCS) Even Semester Exam., 2023

B.VOC (Information Technology)

(4th Semester)

Course No.: BVOCGE-403T

(Software Engineering)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer any five questions

- 1. (a) Define software engineering. Briefly explain the software development life cycle model.
 - (b) Write down the comparison of different models of software engineering.
- 2. (a) Briefly explain the four stages of software project management process.
 - (b) Write a short note on time boxing model.

(Turn Over)

6

8

6

3.	(a)	Briefly explain the decision table. Write down the importance of decision table.	8
	(b)	Define the following:	6
	(5)	(i) Transform flow	
		(ii) Transaction flow	
4.	(a)	Explain decision tree with example.	8
	(b)	Write short notes on the following: (i) DFD (ii) ERD	6
5.	thr	ine object-oriented design. What are the ee key attributes that govern the quality of object-oriented design? Explain.	14
6.	(a)	Explain the following with example: (i) Class diagram in UML (ii) Sequence diagram in UML	8
	(b)	Briefly explain the basic construct of PDL.	6
7.		plain the following techniques that are ed to select the test cases: 4+4+4+2	=14
	(a)	Equivalence-class partitioning	•
•	(b)	Boundary value analysis	
	(c)	Cause-effect graphing	
	(d)	Pairwise testing	
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8.	(a)	Distinguish among error, fault and failure.	6
	(b)	Write a short note on test oracle.	3
	(c)	Explain the levels of testing w.r.t. software engineering.	5
9.	(a)	Distinguish between the following: 6×2=	12
		(i) Quality control and Quality assurance(ii) ISO 9000 quality standards and ISO 9001 standards	
	(b)	Briefly explain software safety.	2
10.	(SC	ine Software Configuration Management (M). What are the five tasks associated the SCM? Explain.	14

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