## 2020/EVEN/SEM/BVOC-GE-403/275

## TDC Even Semester Exam., 2020

B.VOC. (Information Technology)

(4th Semester)

Course No.: BVOC-GE-403

( 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

## UNIT-I

1.	(a)	What are the characteristics of software?	4
	(b)	What are the applications of software?	4
	(c)	What are the concepts of project management? Explain its importance.	$\epsilon$
2.	(a)	Compare and contrast between the waterfall model and prototyping model. Which one do you think is better and why? Explain. 7+3=	<b>=1</b> C
	(b)	What are software myths? Explain.	4

6

6 8

8

6

2+6=8

6

10

2

2

software

(2)

## UNIT-II

3.	(a)	What do you mean by structured analysis? Explain in detail.	8
	(b)	Explain the concepts of cohesion and coupling.	6
4.	(a)	Draw and explain with an example the concept of structural chart and pseudocode used in function-oriented design.	8
	(b)	Draw an ER diagram for a college management system.	6
		Unit—III	
5.	(a)	Write the importance of UML in developing object-oriented software.	6
	(b)	How does object-oriented design differ from function-oriented design? Explain with an example.	8
6.	(a)		2
	(b)	Explain the differences between sequence diagram and collaboration	

(c)	Explain the importance of consistency checkers. What will happen if avoided keeping only design walk-through and critical design review in verification process?
٠	UNIT—IV
(a)	What are integration testing and validation testing?
(b)	What is system testing? Explain.
(a)	Explain software testing fundamentals in detail.
(b)	Differentiate between black-box testing and white-box testing.
	UnitV
(a)	What do you mean by quality assurance? What are the goals of SQA?
(b)	What are the software reliability metrics?
(a)	Discuss in detail Software Configuration

Management.

What is CMM?

What is a

development?

7.

8.

9.

10.

(Continued)

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baseline in

diagram.