Code No: RT32051 (R13) (SET - 1)

III B.Tech II Semester Supplementary Examinations, October/November - 2020
SOFTWARE ENGINEERING
(Computer Science and Engineering)

Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART-A   (22 Marks)

1.	a)	What is meant by Software and Software Engineering? [4M]
	b)	What are the non-functional requirements of software? [3M]
	c)	Explain the design methodologies. [4M]
	d)	Explain black box testing. [3M]
	e)	What is the role of lines of code in project size estimation? [4M]
	f)	What are the types of re-engineering activities? [4M]

PART-B   (48 Marks)

2. a) Explain the challenges faced in software engineering. [8M]

b) What is the use of software development process models? Explain. [8M]

3. a) Differentiate data-oriented requirements analysis and object-oriented [8M]
requirement analysis.

b) Perform prototype analysis on "railway reservation" software. [8M]

4. a) Explain the importance of data abstraction and encapsulation in object-oriented [8M]
design.

b) How we can identify the object's classes? Explain. [8M]

5. a) Explain coding documentation. [8M]
b) Explain code verification. [8M]

6. a) Discuss the project planning activities. [8M]
b) What are the software metrics and measurements? Explain. [8M]

7. a) How do you estimate the maintenance cost of the software? Explain with [8M]
process models.
b) Write a short note on the capability maturity model. [8M]

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