



41521/E210

Reg. No.

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V Semester B.C.A. 4 Degree Examination, March - 2022
SOFTWARE ENGINEERING
(Repeater/Regular)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

1. *ALL Sections are Compulsory.*
2. *Answer the questions of a particular Section Together.*

SECTION - A

Answer the following **TEN** questions.

(10×2=20)

1. a) Define Software Engineering.
b) Name any four generic process activities.
c) What is Data Dictionary?
d) What is the System Model?
e) What is Software Architecture?
f) What is a component and what role it plays in design?
g) Define defect removal efficiency (DRE).
h) What is Unit Testing?
i) Define Software Quality.
j) State the two characteristics that risk always involves.

SECTION - B

Solve any **FOUR** questions of the following.

(4×5=20)

2. Draw a neat diagram and explain the layered technology of Software Engineering.
3. Draw a neat diagram and explain briefly the requirement engineering process.
4. State all the design concept w.r.t. Software engineering and explain any two of them.
5. Why is debugging so difficult?
6. Explain different categories of Risk.

[P.T.O.]

**SECTION - C**Solve any **FOUR** full questions of the following.**(4×10=40)**

7. Discuss in detail the different categories of Software. **(10)**
 8. What is formal technical review (FTR)? Identify its any four objectives. Explain briefly any five guidelines of FTR. **(10)**
 9. Draw a neat diagram & briefly explain
 - a) Waterfall Model. **(5)**
 - b) Spiral Model. **(5)**
 10.
 - a) Explain in brief the three golden rules w.r.t. user interface design. **(5)**
 - b) Discuss in brief designing conventional components. **(5)**
 11.
 - a) What is Integration Testing? Explain in brief Top-down Integration. **(5)**
 - b) Explain the measures of Software Quality. **(5)**
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