Total No. of Questions : 8]

SEAT No. :

PE-4265

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S.E. (Computer Engineering/AI & DS/Computer Science)

SOFTWARE ENGINEERING

(2019 Pattern) (Semester - IV) (210253)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.***
2) ***Figures to the right indicate full marks.***
3) ***Neat diagram must be drawn wherever necessary.***
4) ***Assume suitable data if necessary.***

Q1) a) Explain LOC based estimation with example. **[6]**

b) What is the need of project estimation? Explain the steps for estimation of software. **[6]**

c) Define timeline chart. Explain it with suitable example. **[6]**

OR

Q2) a) Compare Lines of Code(LOC) and Function Point (FP) based estimation techniques with suitable example. **[6]**

b) Explain COCOMO model for project estimation with suitable example. **[6]**

c) Define project scheduling. Explain basic principles of project scheduling. **[6]**

Q3) a) Explain in detail layered architecture style. **[6]**

b) State and explain the golden rules of User Interface design. **[6]**

c) Different between cohesion and coupling. **[5]**

OR

Q4) a) Describe the data centered architecture with merits and demerits. **[6]**

b) Why software engineering should have high cohesion and low coupling? Justify. **[6]**

c) List the design concepts. Explain importance of refactoring in improving the quality of software. **[5]**

P.T.O.

Q5) a) List the advantages of SCM Repository. Explain functions performed by SCM Repository. **[6]**

b) Define software risk in detail. Explain the different types of software risks. **[6]**

c) Explain risk identification and assessment process for software project. **[6]**

OR

Q6) a) Explain Software Configuration Management (SCM) process. **[6]**

b) Discuss any two of the following. **[6]**

i) Risk Refinement

ii) Risk Mitigation

iii) Risk Management

c) Write a short note on change control mechanism in SCM. **[6]**

Q7) a) Define software testing. Explain software testing strategies for software development. **[6]**

b) Explain any two of the following in detail : **[6]**

i) System testing

ii) Acceptance testing

iii) Smoke testing

c) Differentiate between verification and validation. **[5]**

OR

Q8) a) Explain integration testing and its objectives. **[6]**

b) What is Test plan? Explain Validation testing in details. How configuration Review is Important? **[6]**

c) Differentiate between white box and black box testing. **[5]**