

Total No. of Questions : 8]

SEAT No. :

P2251

[Total No. of Pages : 3

[5869]-367

S.E. (Artificial Intelligence & Data Science)

SOFTWARE ENGINEERING

(2019 Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

- Q1)** a) Explain the various activities during software project planning. [6]
- b) Explain the concept of FP. Why FPs are becoming acceptable in industry? [6]
- c) Is it possible to estimate software size before coding? Justify your answer with suitable examples. [6]

OR

- Q2)** a) Illustrate various open-source tools, for scheduling of software activities. List the attributes that are associates with scheduling task for implementing schedule process. [6]
- b) An application has 10 low external inputs, 12 high external outputs, 20 low internal logical files, 15 heigh external interface files, 12 average external inquiries and a value of complexity adjustment factor 1.10. What are the unadjusted and adjusted function point counts? [6]
- c) Explain Earned value analysis in project scheduling with suitable assumptions. [6]

P.T.O.

- Q3)** a) What are the software design quality attributes and quality guidelines?[5]
b) Explain the user interface design principles. [5]
c) List the different architectural styles. Explain any two in detail. [7]

OR

- Q4)** a) List all the design concepts. Abstraction & refinement are complementary concepts. Justify. [5]
b) Explain the user interface design principles and interface evaluation cycle. [5]
c) Enlist and explain Component level design steps in detail. [7]

- Q5)** a) What is risk identification? What are different categories of risks? [6]
b) What is risk projection? How risk projection is carried out using risk table? [6]
c) Prepare RMMM plan for late delivery of software product to the customer. [6]

OR

- Q6)** a) Explain Risk Projection and Risk Refinement in detail. [6]
b) What are the elements that exist when an effective SCM system is implemented? Discuss each briefly. [6]
c) What is Risk mitigation, monitoring and management (RMMM)? [6]

- Q7)** a) Explain phases in Verification and Validation model with suitable diagram. [7]
b) Explain the following: [10]
i) Integration testing and system testing
ii) Compare manual testing and Automation testing

OR

- Q8)** a) Discuss Strategies in WebApp testing. Illustrate the use of Automation tool in WebApp. [7]
- b) Discuss the following with suitable diagram : [10]
- i) Compare Conventional Software Testing and Object Oriented Software testing.
 - ii) Compare Black box and white box testing.

