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S.E. (Artificial Intelligence & Machine Learning)
SOFTWARE ENGINEERING
(2019 Pattern) (Semester - III) (218545)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :
1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7or Q8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right side indicate marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Explain the term Coupling in the context of software design. Also explain the different types of coupling. **[9]**

b) Explain any three design concepts. **[9]**

OR

Q2) a) Write short note on : (Any three) **[9]**

     i) Data flow architecture style

     ii) Object oriented architecture

     iii) Layered system architecture

     iv) Data-centred architecture

b) Write and Explain the Interface design steps with diagrammatical representation. **[9]**

Q3) a) Explain with suitable diagram the project management life cycle. **[9]**

b) Write short note on : **[8]**

     i) W^5HH Principle

     ii) 4 Ps of Project management

OR

Q4) a) List the different project estimation techniques. Explain with example how size oriented metrics are used for project estimation. **[9]**

b) Write short note on : **[8]**
   i) Work Breakdown Structure (WBS).
   ii) Program Evaluation Review Technique (PERT).

Q5) a) Explain the need of quality management? Discuss eight Quality Dimensions. **[9]**

b) What is defect? Describe steps in defect management process. **[9]**

OR

Q6) a) Write short note on : **[9]**
   i) Unit Testing
   ii) Integration testing
   iii) Regression testing

b) What is objective of Testing? Differentiate between testing & debugging. **[9]**

Q7) a) Explain Test driven development (TDD) in detail. **[9]**

b) What is the need of SCM repository? List and explain the SCM repository features. **[8]**

OR

Q8) a) What are the tasks carried out in SCM Process? **[9]**

b) Write short note on : **[8]**
   i) CASE Tools
   ii) Technology evolution

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