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18SCS332

Third Semester M.Tech. Degree Examination, Jan./Feb. 2021
Software Project Planning and Management

Time: 3 hrs.   Max. Marks: 100

Note: *Answer FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Explain Deming's cycle of the metrics activity.   (04 Marks)
  b. Describe people and organizational issues in metrics program.   (06 Marks)
  c. Explain the common pitfalls to watch out in metrics program.   (10 Marks)

OR

2 a. Explain the processes and activities of software configuration management.   (12 Marks)
  b. Describe the various issues of software configuration management in geographically distributed teams.   (08 Marks)

Module-2

3 a. What is risk management? Explain the phases of risk management cycle with the help of a diagram.   (06 Marks)
  b. Explain the different ways of identifying the potential risks.   (09 Marks)
  c. Describe the risks and mitigation in the context of global project teams.   (05 Marks)

OR

4 a. What is work breakdown structure? List the five criteria of WBS.   (06 Marks)
  b. With the help of a diagram, explain the four quadrants of status reporting.   (06 Marks)
  c. Describe the process of an effective project closure.   (08 Marks)

Module-3

5 a. Explain the steps to be followed during requirements gathering.   (06 Marks)
  b. Describe the skill sets required during the requirements phase.   (07 Marks)
  c. With the help of a diagram. Explain the phases of estimation.   (07 Marks)

OR

6 a. List the advantages and disadvantages of lines of code model for size estimation.   (06 Marks)
  b. List the advantages and disadvantages of function points model for size estimation.   (06 Marks)
  c. List the salient features of project design phase. Explain any three features.   (08 Marks)

Module-4

7 a. Define testing. List the various activities of testing and explain test specification in detail.   (08 Marks)
  b. Explain in detail, the white box testing and the black box testing methods.   (08 Marks)
  c. Describe the steps to be carried out in the installation testing.   (04 Marks)

OR

8 a. With the help of suitable diagrams, compare the integrated testing team and dedicated testing team models.   (10 Marks)
  b. Explain the management issues during the maintenance phase.   (10 Marks)

Module-5

9   a.   What are the challenges in building global teams?   (05 Marks)
       b.   Explain the three models used for the execution of global projects.   (09 Marks)
       c.   Describe effective management techniques for managing global teams.   (06 Marks)

OR

10   a.   Describe the model for e-learning.   (06 Marks)
       b.   What were the drawbacks of training in the pre-internet days?   (04 Marks)
       c.   Explain in detail, the People Capability Maturity Model.   (10 Marks)

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