| PRN: | | Course Code: | PCA303R |
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Second Year M.C.A. End Semester Examination Winter 2024

# Software Project Management 000403

Day and Date: Wed 27 NOV 2024 Max Marks: **100**

Time : 10:30AM To 01:30PM Duration: **03** hrs

Instructions: 1. All questions are compulsory.
2. Calculator is allowed.

| | | | Marks | Bloom's Level | CO |
|---|---|---|---|---|---|
| Q.1 | | **Attempt the following** | | | |
| | a) | Describe software requirements specifications (SRS). | 08 | L2 | 1 |
| | b) | Describe Spiral Model in detail. | 08 | L2 | 1 |
| | | OR | | | |
| | b) | Elaborate Agile Model in detail. | 08 | L3 | 1 |
| Q.2 | | **Attempt the following** | | | |
| | a) | Describe software project management and aspects of Software project management. | 08 | L2 | 2 |
| | b) | Describe Project management organization in detail. | 08 | L3 | 2 |
| | | OR | | | |
| | b) | | 08 | L3 | 2 |

| Sr. No. | Activity | Time Duration in weeks | | |
|---|---|---|---|---|
| | | Optimistic time | Most Likely time | Pessimistic time |
| 1 | 1-2 | 3 | 6 | 9 |
| 2. | 1-6 | 2 | 5 | 8 |
| 3. | 2-3 | 6 | 12 | 18 |
| 4. | 2-4 | 4 | 5 | 6 |
| 5. | 3-5 | 8 | 11 | 14 |
| 6. | 4-5 | 3 | 7 | 11 |
| 7. | 6-7 | 3 | 9 | 15 |
| 8. | 5-8 | 2 | 4 | 6 |
| 9. | 7-8 | 8 | 16 | 18 |

1. Calculate time estimate for each activity.
2. Identify the Critical Path.



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| Q.3 | | **Attempt any two from the following** | | | |
| | a) | Describe Project review, objectives, types of project review. | 08 | L2 | 2 |
| | b) | Illustrate Recovery Plans- Schedule work & Escalation meetings. | 08 | L3 | 4 |
| | c) | Elaborate Gathering tools in software requirements. | 08 | L3 | 4 |
| Q.4 | | **Attempt any two from the following** | | | |
| | a) | Describe data flow diagram with an example. | 08 | L3 | 3 |
| | b) | Describe decision trees with an example | 08 | L3 | 3 |
| | c) | Describe software testing with its different types in detail. | 08 | L2 | 3 |
| Q.5 | | **Attempt any Two of the following** | | | |
| | a) | What are the characteristics of good software? Explain it. | 09 | L1 | 3 |
| | b) | Explain software quality assurance with their different methods. | 09 | L2 | 3 |
| | c) | Distinguish software quality assurance and software quality control. | 09 | L4 | 3 |
| Q.6 | | **Attempt any Two of the following** | | | |
| | a) | Describe common source of Risk and Explain Steps of Risk Management Paradigm. | 09 | L3 | 4 |
| | b) | Explain different categories of risk, Risk Control and Risk Resolution. | 09 | L3 | 4 |
| | c) | Describe Capability Maturity Model (CMM). | 09 | L4 | 4 |

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