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QUESTION BANK

Subject with Code : SOFTWARE PROJECT MANAGEMENT (16MC835) **Course& Branch:** MCA
Year & Sem: III-MCA& I-Sem **Regulation:**R16

UNIT –I

Software Management Renaissance

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| 1. (a) Explain in detail about waterfall model | 6M |
| (b) Write down Boehm's top ten lists of the industrial software metrics. | 6M |
| 2. (a) List out the five basic parameters of the software cost model. | 6M |
| (b) Explain how cost of software is estimated. | 6M |
| 3. (a) Write down five characteristics of a successful object-oriented project | 8M |
| (b) What are the three distinct process perspectives? | 4M |
| 4. (a) Explain in details about Bohme's staffing principle. | 4M |
| (b) Explain the key practice that improves software quality. | 8M |
| 5. Give an example for becoming a team and Explain working within a group. | 12M |
| 6. Explain how software process improvement will reduce its cost. | 12M |
| 7. (a) Mention the different rigorous engineering activities involve exposing architectural issues. | |
| (b) What are the crucial attribute deserve much more attention by a successful project manager. | 12M |
| 8. Explain the five basic parameters of the software cost model. | 12M |
| 9. Justify how the peer inspection is the key aspects of a quality system with an example. | 12M |

UNIT –II

Conventional and Modern Software Management

1. Explain Davis top thirty principles. 12M
2. (a) Explain the principles of modern software management. 6M
(b) Explain transition to an iterative process. 6M
3. (a) Explain one of the characteristics of unsuccessful projects. 6M
(b) Explain the characteristics of successful projects. 6M
4. Describe in detail about Engineering and production stage. 12M
5. (a) Explain the life-cycle evolution of the artifact set. 6M
(b) Explain about test artifact and Management artifact. 6M
6. Explain about the typical software development outline. 12M
7. Explain Architecture in detail from management and technical perspective. 12M
8. (a) Write down the usage of the software user manual 6M
(b) Write down the usage of vision document. 6M
9. (a) Write down briefly about Work break down structure 8M
(b) How change management can be performed through automation. 4M
10. (a) Explain two form of requirement contained in release specification 4M
(b) Write briefly about pragmatic artifact. 8M

UNIT –III**Workflows of the Process**

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| 1.Explain in detail about seven top-level workflows. | 12M |
| 2. Discuss the concept of iteration workflows with a diagram. | 12M |
| 3.Explain the different iteration emphasis across the life cycle. | 12M |
| 4.Explain in detail about typical sequence of life cycle check points. | 12M |
| 5.Explain in detail about periodic status assessments. | 12M |
| 6.Explain cost and schedule estimation process. | 12M |
| 7.Explain the evolution of planning fidelity in the WBS over the life cycle. | 12M |
| 8.Explain conventional work break down structure issues. | 12M |
| 9.Discuss the different engineering and production stage planning emphasis? | 12M |
| 10.Explain in detail about evolutionary work break down structure. | 12M |

UNIT –IV**Project organizations and Responsibilities**

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| 1. (a) Explain Evolution of organization. | 6M |
| (b) Explain about project environment. | 6M |
| 2. Explain about quality indicators. | 12M |
| 3. Write short notes on metric automation and tailoring the process. | 12M |
| 4. Give an overview of seven core metrics in managing modern process. | 12M |
| 5. Explain about process discriminates. | 12M |
| 6. How we can handle small-scale and large scale project effectively? How they are differ each other in the terms of schedule distribution, workflow and artifacts. | 12M |
| 7. (a) How modern software development processes tackle the central management issues of the complex software? | 6M |

- (b) Write down short notes on basic characteristics of good metrics. 6M
8. (a) Mention the different reason for selecting seven core metrics. 8M
- (b) Write down the top-level use case which describes the basic operational concept for an SPCP. 4M
9. Explain default role in a software- line-of business organization. 12M
10. Explain in detail about software development activities. 12M

UNIT –V

Future Software Project Management

1. (a) Explain about continuous integration progress profile in modern projects. 8M
- (b) Discuss about Early Risk Resolution. 4M
2. Explain in detail about Top 10 Software management Principles. 12M
3. Explain about software management best practices. 12M
4. Explain in details about Next-generation cost models. 12M
5. Discuss how the framework can be used to summarize some of the important themes in an economic context and speculate on how a modern software management frame should perform. 12M
6. Explain the overview of CCPDS-R life cycle. 12M
7. Discuss the impact of cultural shift on modern software management process. 12M
8. Explain about organization of software components resulting from a modern process. 12M
9. Explain risk profile of a typical modern project across its life cycle. 12M
10. How we can categorize modern iterative development process framework and conventional software process. 12M

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