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MCA
(SEM III) THEORY EXAMINATION 2021-22
SOFTWARE PROJECT MANAGEMENT

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt all questions in brief.** **2 x 10 = 20**
- What is contract management?
 - Differentiate between task and activities.
 - How to identify and estimate the cost of project?
 - How does software project different from other engineering project?
 - How to calculate the net present value for a software project?
 - How is CPI different from SPI?
 - How are risk classified?
 - What is monitor earned value?
 - What is software re-engineering?
 - What are the methods used to improve motivation?

SECTION B

2. **Attempt any three of the following:** **10 x 3 = 30**
- List the Outline of stepwise project planning.
 - Explain how project can be evaluated against strategic, technical, and economic criteria.
 - Discuss the network model represented by the CPM network.
 - What is the role of time estimation in a software development? Compare optimistic and pessimistic time estimation.
 - List the factors that are involved in making a team. Explain the characteristics.

SECTION C

3. **Attempt any one part of the following:** **10 x 1 = 10**
- With neat diagram explain stepwise Objective and goals of project planning.
 - Define the scope of software project management
4. **Attempt any one part of the following:** **10 x 1 = 10**
- Explain different three stages of COCOMO II model.
 - Describe how cost- benefit evaluation techniques can be used to choose the best among competing project proposal.
5. **Attempt any one part of the following:** **10 x 1 = 10**
- Discuss Monte Carlo simulation with neat diagram.
 - Describe with an example how the effect of risk on project schedule is evaluated using PERT.
6. **Attempt any one part of the following:** **10 x 1 = 10**
- Does monitoring and control affect the project schedule? Explain.
 - Explain the earned value analysis methods.
7. **Attempt any one part of the following:** **10 x 1 = 10**
- Explain the method to overcome from stress, health, and safety issues in managing the people and organizational teams.
 - Explain the Oldham-hackman job characteristic model.