24/05/2019

37211

BT-7 / M-19

SOFTWARE PROJECT MANAGEMENT

Paper-IT-423N

Time allowed : 3 hours]   *[Maximum marks : 75*

Note : *Attempt **five** questions in all, selecting at least* ***one*** *question from each unit. All questions carry equal marks.*

Unit-I

1. (a) Explain the Boehm fundamental economics relationship for conventional software. How to improve the software economics ?   08

 (b) Explain different principles of software management and justify their roles.   07

2. (a) What type of automation can be done through software environment? Justify with a suitable example.   08

 (b) Discuss different software processes which are involved and their role to build effective software system.   07

Unit-II

3. Identify the roles of the following:

 (i) Work breakdown structure   08

 (ii) Software architecture team   07

37211   [Turn over

4. Explain the role of the following artifacts :

   (i) Management artifacts   05

   (ii) Engineering artifacts   05

   (iii) Pragmatic artifacts   05

Unit-III

5. (a) Write down the function of software architecture team and software assessment team.   08

   (b) Write short notes on the working of model based software architectures.   07

6. (a) What are the different core metrics for management of a modern software project ? Explain briefly with real time software application.   08

   (b) Describe all the roles of process discriminants in managing software projects.   07

Unit-IV

7. Why cost monitoring and project tracking are essential for project management and control ? Explain with the help of suitable process flow mechanism of any real time software project.   15

8. Write down the short notes on following :

   (i) Iterative process planning   5

   (ii) Software configuration management   5

   (iii) ROI   5

37311