

Roll No. ....

Total Pages : 03

BT-7/D-18

37211

SOFTWARE PROJECT MANAGEMENT

IT-423N

Time : Three 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) Why software economics is quite useful for conventional software management ? 8
- (b) Discuss different software processes which are involved and their role to build effective software system. 7
2. (a) What type of automation can be done through software environment ? Justify with a suitable example. 8
- (b) Explain the principles of modern software management. 7

## Unit II

3. Define software engineering artifacts. Explain the role of management artifacts, engineering artifacts and pragmatic artifacts to design cost effective software process. 8,7
4. Discuss the following software management process :
  - (i) Workflows of the process 8
  - (ii) Checkpoint of the process. 7

## Unit III

5. (a) Discuss the role of process automation and process discriminates in controlling software process management. 8
- (b) Why the elaboration, construction and training phase are the important processes in software process. 7
6. (a) Why the project control and process instrumentation core metrics are essentials for managing software project ? Explain with the help of suitable process flow mechanism of any real time software project. 10
- (b) Explain the role of life-cycle expectations in software management. 5

## Unit IV

7. Write down the short notes on the following :
- (i) Life-cycle expectations 5
  - (ii) Earned value analysis 5
  - (iii) ROI. 5
8. Discuss the accurate framework which may be involved for project management and control. Mention their processes and related mechanisms. 15

