

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2868

Roll No.

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B.Tech.

(SEM. VIII) EVEN THEORY EXAMINATION 2012-13

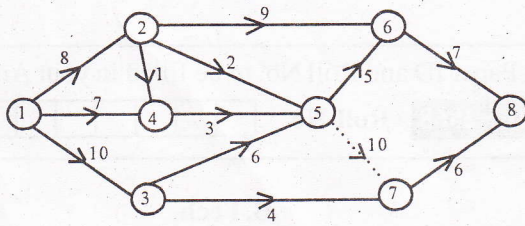
SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours

Total Marks : 100

Note :—Attempt ALL questions.

1. Answer any **two** parts : **(10×2=20)**
 - (a) What are the various dimensions of software project planning ? Discuss the impact of each section of a software project planning on the successful completion of the software project.
 - (b) (i) What are the various factors which describe the scope of software ? Explain.
(ii) Write a short note on pragmatic planning.
 - (c) Why software project estimation is needed ? What are various estimation approaches and when these are used ? Explain any one estimation method with example.
2. Answer any **two** parts : **(10×2=20)**
 - (a) What consistency, respect, inclusion, and honesty are factors that contribute to effective people management ? Discuss.
 - (b) An activity network for a software project consisting of 8 events, 12 activities, and 1 dummy activity is shown in the following figure :



Figure

- (i) Find the critical path for the above.
 - (ii) Calculate slack for each activity.
 - (iii) Find earliest and latest start time.
 - (iv) Find the earliest and latest finish time.
- (c) Write short notes on the following :
- (i) Work Breakdown Structure.
 - (ii) Product life cycle.

3. Answer any **two** parts :

(10×2=20)

- (a) What do you mean by project monitoring and control process ? Explain. How these processes affect the project schedule ? Discuss.
- (b) What do you understand by earned value analysis and management ? Explain with example. Why many individuals and firms have failed to adapt the methods under earned value analysis and management ? Discuss.

(c) Write short notes on the following :

- (i) Code reviews.
- (ii) Pair programming.

4. Answer any **two** parts : (10×2=20)

- (a) Describe two metrics that have been used to measure programmer productivity. Comment briefly on the advantages and disadvantages of each of these metrics.
- (b)
 - (i) Write a short note on testing strategies.
 - (ii) Explain SEI capability maturity model.
- (c) Why it is difficult to validate the relationships between internal product attributes such as cyclomatic complexity and external attributes such as maintainability ? Discuss.

5. Answer any **two** parts : (10×2=20)

- (a) Describe two ways in which system building tools can optimize the process of building a version of a system from its components.
- (b) What do you mean by risk ? Explain. How risk planning and monitoring is carried out ? Discuss.
- (c) Discuss any one software project management tool.