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

PAPER ID : 1 0 4 0   Roll No. ☐☐☐☐☐☐☐☐☐☐☐

B.Tech.

SIXTH SEMESTER EXAMINATION, 2005-2006

SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours   *Total Marks : 100*

Note : (i) *Attempt **ALL** questions.*

(ii) *All questions carry equal marks.*

(iii) *In case of numerical problems assume data wherever not provided.*

(iv) *Be precise in your answer.*

0001066

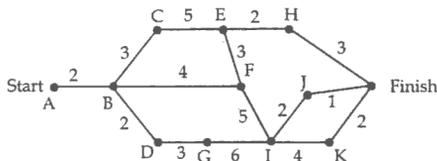1. Attempt *any four* parts of the following :   (5x4=20)

(a) In reference to project planning define the term milestones and deliverables.

(b) Discuss the graphical notations which are used to illustrate the project schedule.

(c) Describe how adding personnel to a project that is behind schedule might make the project completion date even later.

(d) Explain the term project scope with a suitable example.

(e) Discuss the various types of software projects.

(f) Explain why the intangibility of software systems poses special problems for software projects management.

2. Attempt *any four* parts of the following :   (5x4=20)
    (a) Write short note on Rapid application development.
    (b) Discuss the project feasibility with an example.
    (c) What do you mean by case flow forecasting ? Explain with an example.
    (d) Does advancement in information technology have any impact on software project planing, design or implementation ? If it is, then in what way ? and if not then why ?
    (e) What is prototyping process model ? When it is used ?
    (f) Define risk ? What are the various categories of risks ?

3. Attempt *any two* parts of the following :   (10x2=20)
    (a) Discuss the COCOMO software estimation model in detail with proper examples.
    (b) For the following activity graph find the critical path -

    (c) What are various software measurement metrics ? Explain any of them in detail with example.

4. Attempt *any two* parts of the following :   (10x2=20)
    (a) (i) Describe difference between Known risk and Predictable risks.
         (ii) Differentiate between the risk component and risk drivers.

IT — 601   2

(b) Discuss the risk management process in detail.

    (c) Describe the following :

        (i) Contract Management

        (ii) Human Resource Management

5. Attempt *any two* parts of the following :   **(10x2=20)**

    (a) What do you mean by software quality assurance ? Explain. Also discuss the various software quality assurance activities.

    (b) Define the following :

        (i) ISO 9126 standard.

        (ii) Product quality management.

    (c) Discuss SEI process Capability Maturity Model in detail.

- o O o -