

CSE  
25/4/16 AN

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**Question Paper Code : 52670**

**B.E./B.Tech. DEGREE EXAMINATION, APRIL 2016**

**Eighth Semester**

**Computer Science and Engineering**

**IT2403/IT73/10144CSE69 – SOFTWARE PROJECT MANAGEMENT**

**(Regulations 2008/2010)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. Differentiate software projects with other types of project.
2. What is Business model ? Give an example.
3. If the total investment is \$100,000 and the average annual profit is \$10,000, calculate the return on investment.
4. What are the problems with over and under estimates ?
5. What are the ways by which the overall duration of a project can be reduced ?
6. Mention few risks involved with software projects.
7. How will you evaluate the usability of an existing software applicaton ?
8. What are the advantages of a check-point ?
9. What developments in information technology would be of assistance to use of the Delphi technique ?
10. Differentiate Staff and Line workers.

**PART – B (5 × 16 = 80 Marks)**

11. (a) Give an overview of project planning. (16)

**OR**

- (b) A public library is considering the implementation of a computer-based system to help administer book loans at libraries.
- (i) Identify the stakeholders. (4)
  - (ii) What are the objectives of the project? (4)
  - (iii) How will the success and failure of the project be measured? (8)

12. (a) How will you evaluate and select a project against strategic, technical and economic criteria? (16)

**OR**

(b) How will you evaluate the risks to before selecting the project proposal? (16)

13. (a) Draw an activity using precedence network convention for the project specified in Table 1. Calculate earliest starts and completion date and also the latest start and completion date for the project and identify the critical path on the network. (16)

Activity Key	Activity description	Duration (weeks)	Precedents
A	Hardware selection	8	
B	Software design	6	
C	Install hardware	4	A
D	Code and test	4	B
E	File take on	4	B
F	User manual	12	
G	User training	4	E, F
H	Install	3	C, D

**Table 1**

**OR**

(b) Differentiate between PERT and CPM and also explain the steps involved in constructing PERT chart. (16)

14. (a) Briefly explain earned value analysis. (16)

**OR**

(b) What are the typical stages in awarding a contract? (16)

15. (a) (i) Explain Maslow's hierarchy of needs. (8)

(ii) Explain Decision making process. (8)

**OR**

(b) Give an overview of organizational structures. (16)