



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

## M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

THIRD SEMESTER – NOVEMBER 2016

### CA 3951 - SOFTWARE PROJECT MANAGEMENT

Date: 09-11-2016  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

#### PART – A

Answer ALL questions

10 X 2 = 20

1. List the types of stake holders.
2. Define NPV.
3. Draw a Product flow diagram for Software project tasks.
4. Write the laws that explain the delay of a process.
5. What is precedence network?
6. List the measures of activity float.
7. What is project cost monitoring?
8. What is the process of proposal evaluation?
9. Give the importance of communication in managing people.
10. Differentiate between product and process metrics.

#### PART – B

Answer ALL questions

5 X 8 = 40

11. a) Write note on various categories and objectives of software projects.  
Or  
b) Explain the methodologies used in evaluating individual project.
12. a) What is a software prototype? Explain its advantages and disadvantages.  
Or  
b) Elucidate on COCOMO of estimation.
13. a) Construct the precedence network and perform the forward pass for the following table:  
*Project specification with estimated activity durations and precedence requirements*

Activity	Duration (weeks)	Precedents
A Hardware selection	6	—
B Software design	4	—
C Install hardware	3	A
D Code & test software	4	B
E File take-on	3	B
F Write user manuals	10	—
G User training	3	E, F
H Install & test system	2	C, D

Or

- b) Explain the different stages of dealing with risk.
14. a) Write and explain the steps in change control procedure.  
Or  
b) Write short notes on the terms used for contract placement.
15. a) Explain the Hackman's job characteristics model.  
Or  
b) Write note on various team structures.

**PART – C**

**Answer any TWO questions**

**2 X 20 =40**

16. a) Explain the stages of planning for a project and the activities in each stage.  
b) Elaborate on the activities of software project management and software development life cycle.
17. a) Define: Functional point. Explain the various functional point analysis methods.  
b) What are the categories of project resources? Explain their allocation factors.
18. a) “Every type of contract has its own pros and cons” - Discuss.  
b) Elaborate on the various motivational theories.

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