

**S.D.E.**  
**M.C.A. SEM - V : SUMMER - 2018**  
**SUBJECT: SOFTWARE PROJECT MANAGEMENT**

Day: **Monday**  
Date: **28/05/2018**

**S-2018-4628**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 80

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**N.B.:**

- 1) Attempt any **FIVE** questions from Section –I and any **TWO** questions from Section –II.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers to both the sections should be written in **SEPARATE** answer books.
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**SECTION-I**

- Q.1** Define project, project management and software project management. (10)  
Discuss the need of project management.
- Q.2** Describe any four modern methods of requirement gathering with their merits and demerits. (10)
- Q.3** What do you mean by software efforts? Illustrate the factors affecting software efforts in detail. (10)
- Q.4** Describe various team structures with their advantages and disadvantages. (10)
- Q.5** What is risk? Discuss different types of risks involved in software project with their mitigation. (10)
- Q.6** What is quality? Discuss software quality assurance in detail. (10)
- Q.7** Write short notes on any **TWO** of the following: (10)
- a) Rational unified process
  - b) Gantt chart
  - c) PMI

P. T. O

## SECTION-II

- Q.8** Draw an activity network diagram and find out earliest start time and earliest finish time for each activity. Also find the critical path for the project given below: **(15)**

Activity	Immediate predecessor	Duration (in week)
A	-	4
B	A	7
C	A	5
D	A	6
E	D	4
F	D	6
G	E	2
H	E,G	4
I	C,H	6
J	B	4

- i) Draw the activity network diagram.
  - ii) Find out earliest start time and earliest finish time for each activity.
  - iii) Find the critical path.
- Q.9** Consider database system needed for an office automation project. The requirement document shows that system contains four modules and altogether 45,000 DSI. The project budgeted to be semidetached mode and complexity is high (high = 1.15). Calculate efforts, schedule, productivity, and average staffing for the above project using intermediate COCOMO. **(15)**
- Q.10** What is the need of SPMP? Give outline of SPMP plan in brief. **(15)**

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