

**M.C.A. SEM - V (CHOICE BASED CREDIT SYSTEM 2011 & 2012
 COURSE) : SUMMER - 2018
 SUBJECT : SOFTWARE PROJECT MANAGEMENT**

Day : **Wednesday**
 Date : **02/05/2018**

Time : **02.00 PM TO 5.00 PM**
 Max. Marks : 100

S-2018-1802

N.B.:

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in the **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1** What constraints need to be referred while deciding scope of a software project? How it helps in estimating efforts for a project? [15]
- Q.2** Explain COCOMO model for software project cost estimation. [15]
- Q.3** Explain the basis on which defects can be categorized into different types. Explain defect management cycle with necessary elaboration of each phase. [15]
- Q.4** What is the purpose of integration testing and acceptance testing? Why it is necessary to conduct acceptance testing at developers as well as users environment? [15]
- Q.5** Explain different phases in project life cycle. Also mention the skill set required by a software project manager. [15]
- Q.6** Write short notes on **ANY TWO** of the following: [15]
- a) Integration management
 - b) PMBOK
 - c) Test management tools

SECTION - II

- Q.7** Prepare a test plan for proposed online application for movie ticket booking for a multiplex. Make necessary assumptions. [20]
- Q.8** Draw activity diagram for following project. Find earliest completion time and critical path for the same. [20]

	Activity	Duration (weeks)	Dependence
A	Identify requirements	4	--
B	Define scope	2	A
C	Hardware selection	2	A
D	Prepare software design	4	A, B, C
E	Prepare test plan	3	D
F	Coding and testing	3	D, E
G	Software implementation	2	F
H	User training	1	G

- Q.9** a) Discuss the top ten risks in software projects. [10]
- b) 'Software engineering and project management go hand in hand'. Justify with suitable example. [10]

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