

MASTER OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
M.C.A. SEM - V : WINTER :- 2021
SUBJECT: SOFTWARE PROJECT MANAGEMENT

Day : Thursday
Date 24-02-2022

W-22262-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.

- 1) Q. No. 4 from Section – I is **COMPULSORY**.
- 2) Attempt **ANY TWO** questions from Q. No. 1,2,3 from Section – I.
- 3) Attempt **ANY TWO** questions from Q. No. 5,6,7 from Section – II.
- 4) All questions carry equal marks.
- 5) Answer to both the sections should be written in **SAME** answerbook.
- 6) Draw a labeled diagram **WHEREVER** necessary.

SECTION – I

Q.1 Answer the following : (6 marks x 2 = 12 marks)

- a) Define project management. Describe how software projects are different than other types of projects.
- b) Discuss different certifications provided by PMI.

Q.2 Answer the following : (6 marks x 2 = 12 marks)

- a) What do you mean by work breakdown structure? Explain rules for developing WBS.
- b) Explain any two non-algorithmic methods of effort estimation with their merits and demerits.

Q.3 Answer the following : (6 marks x 2 = 12 marks)

- a) Discuss classical mistakes in brief.
- b) Elaborate various types of contract in brief.

Q.4 Write short notes on **ANY THREE** of the following : (4 marks x 3 = 12 marks)

- a) CMM
- b) Working in groups
- c) Risk control
- d) Problems with resource allocation
- e) Software cost factors

SECTION – II

Q.5 Project XYZ is to be 90000 DSI semi-detached software. It is in mission critical (12) area so the reliability is high (RELY=high=1.15). Using intermediate COCOMO model calculate effort, schedule, productivity and average staffing.

Q.6 a) 'Change is the only constant thing in the software project management.' Justify (06) with example.

b) 'Putting more people on late project makes it later.' Justify. (06)

Q.7 Draw activity network diagram for following project. Find EST, EFT, LST & LFT. (12) Also find critical path .

	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
