

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
M.C.A. Sem - V : WINTER :- 2021
SUBJECT: SOFTWARE PROJECT MANAGEMENT

Day : Thursday
Date 24-02-2022

W-21104-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 70

N.B.

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

SECTION – I

- Q.1** Define project management. Explain the problems associated with software project management. (10)
- Q.2** Discuss different certifications provided by PMI. (10)
- Q.3** Give the need of Gantt chart with the help of suitable example. (10)
- Q.4** Explain non-algorithmic methods of cost estimation with their merits and demerits. (10)
- Q.5** Describe top ten risks in software project management. (10)
- Q.6** Write short notes on **ANY TWO** of the following: (10)
- a) ISO Quality standards
 - b) Problems with resource allocation
 - c) Factors affecting cost estimation
 - d) Risk prioritization

SECTION – II

- Q.7** Draw the activity network diagram and find EST, EFT, LST and LFT. Also find the critical path. (15)

Activity	Predecessor	Duration (Weeks)
A	-	5
B	-	7
C	A	6
D	B	5
E	B	4
F	D,E	8
G	C,F	8
H	D	6
I	G,H	3

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Q.8 Project ABC is to be 50, 000 DSI semi-detached software. It is in a mission critical area, so the reliability is high ($RELY = high=1.15$). Using intermediate COCOMO model, calculate effort, schedule, productivity and average staffing. (15)

Q.9 a) 'Software engineering and project management goes hand in hand.' Justify with suitable example. (08)

b) Design work breakdown structure to conduct online survey for student's view about India educational system. (07)
