BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-VI : WINTER- 2022
SUBJECT : SOFTWARE PROJECT MANAGEMENT

Day : Saturday | Time : 10:00 AM-01:00 PM

Date : 3/12/2022 | **W-18800-2022** | Max. Marks : 60

N.B.

1) **Q. No. 4** from Section-I is **COMPULSORY**.
2) Attempt **ANY TWO** questions from Q.No. 1 to Q. No. 3 in Section – I.
3) Attempt **ANY TWO** questions from Q.No. 5 to Q. No. 7 in Section – II.
4) Figures to the **RIGHT** indicate **FULL** marks.
5) Answers to both the sections should be written in **SAME** answer book.

SECTION – I

Q.1 **a)** Differentiate between: Software projects and other types of projects. **(06)**
b) Explain any two methods of project selection in breif. **(06)**

Q.2 **a)** What do you mean by project schedule? Give the importance of it. **(06)**
b) Discuss the factors affecting the software cost. **(06)**

Q.3 **a)** What is quality? Describe various stages of quality management. **(06)**
b) Discuss people related classical mistakes in software projects. **(06)**

Q.4 Write short notes on **ANY THREE** of the following : **(12)**
a) Microsoft project
b) CMM
c) Scope management
d) Team leader
e) Work breakdown structure

SECTION – II

Q.5 Construct the activity network diagram and find critical path, earliest start time and earliest finish time. **(12)**

Activity	Name	Time duration (days)
1-2	A	4
1-3	B	1
2-4	C	1
3-4	D	1
3-5	E	6
4-9	F	5
5-6	G	4
5-7	H	8
6-8	I	1
7-8	J	2
8-10	K	5
9-10	L	7

Q.6 Project A is to be 56,000 DSI semi-detached software. It is in a mission critical area, so the reliability is high (RELY=very high=1.35). Using intermediate COCOMO, calculate total efforts, schedule, productivity of programmer and average staff required to complete this project. **(12)**

Q.7 Calculate the total function point value from the following data: **(12)**
Number of programmers – 12, Number of algorithms-23, Number of inputs-15, Number of outputs – 21, Number of internal files – 19, Number of external files-19, Number of enquiries – 30 and Number of programs–23.
Compute for all the three types of complexities.(Consider $\sum fi$ or DI = 1)

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