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

Day : Friday
Time : 10:00 AM-01:00 PM
Date : 26-08-2022
S-18800-2022
Max. Marks : 60

N.B.:

1) Q. No. 4 from Section –I is **COMPULSORY**.
2) Solve any **TWO** questions from Q. no. 1 to Q. no. 3.in Section –I
3) Solve any **TWO** questions from Q. no. 5 to Q. no. 7.in Section –II.
4) Figures to the right indicate **FULL** marks.
5) Answer to both the sections should be written in **SAME** answer book.

SECTION-I

Q.1 **a)** Define project. Describe how software projects are different than other types of projects. **(06)**

b) What do you mean by work breakdown structure? Explain benefits, rules and process of developing WBS. **(06)**

Q.2 **a)** Explain the concept of time management. **(06)**

b) Explain non algorithmic methods of cost estimation with their merits and demerits. **(06)**

Q.3 **a)** Explain various McCall's quality factors. **(06)**

b) What is risk? Explain the importance of risk management. **(06)**

Q.4 Write short notes on any **THREE** of the following: **(12)**

a) Microsoft Project
b) Gantt chart
c) Factors affecting cost estimation
d) CMM

SECTION-II

Q.5 Draw activity diagram for following project. Find earliest completion time and critical path for the same. **(12)**

	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.6 Calculate the total function point value for the following project: **(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
Number of programs – 23
Compute for all the three complexities. (consider $\sum fi = 1$)

Q.7 Explain the elements of risk management in detail. **(12)**

* * * *