

Time : 3 Hours

[Total Marks : 80]

N.B. : 1) Question No.1 is **compulsory**.2) Attempt any **four** from the remaining **six** questions.

3) Answer to sub-questions should be grouped together.

- Q.1. (a) Discuss the Modern approaches to leadership styles. (5)
 (b) Explain WBS. (5)
 (c) Discuss FTR. (5)
 (d) Explain various types of project implementation. (5)
- Q.2. (a) Consider a project with the following functional units: Number of user inputs = 35, Number of user outputs = 40, Number of user enquiries = 25, Number of user files = 10, Number of external interfaces = 06, Assume all complexity adjustment factors and weighting factors are average. Compute the function points for the project. Constants: complexity adjustment factors with average scale = 3, User Inputs (average = 4), user outputs (average = 5), user enquiries (average = 4), user files (average = 10), external interfaces (average = 7) (10)
- (b) Discuss project management framework in detail. (10)
- Q.3. (a) Draw a network diagram for the following task as given duration is in days for all tasks. Find the critical path and calculate early start, early finish, late start, late finish and slag time. (10)

S. No	Activity	Duration (in Days)	Predecessor
1	A	02	-
2	B	04	A
3	C	10	B
4	D	06	C
5	E	04	C
6	F	05	E
7	G	07	D
8	H	09	E, G
9	I	07	C
10	J	08	F, I
11	K	04	J
12	L	05	J
13	M	02	H
14	N	06	K, L

- (b) Discuss the various tools used for quality control. (10)
- Q.4. (a) Explain the steps used to create the Business case. (10)
- (b) What is requirement gathering? Discuss any three requirement elicitation techniques. (10)
- Q.5. (a) What is Agile software development? Explain XP in detail (10)
- (b) Explain the various steps carried out in Risk Management. Also discuss the various risk categories. (10)
- Q.6. (a) What is UML? Discuss use case and class diagram. (10)
- (b) Explain change Management. (10)
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