

**SVKM'S NMIMS**  
**MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING**

Academic Year: 2022-2023

Program: Btech Stream : CSBS

Year: 2022 Semester: VIII

Subject: IT Project Management

Time: 45 Minutes (10.55 am to 11.40 am)

Date: 20/01/2023

No. of Pages: 1

Marks: 20

**Mid Term Test-I (Set 2)**

**Instructions: Candidates should read carefully the instructions.**

- 1) Answer to each new question to be started on a fresh page.
- 2) Figures in brackets on the right hand side indicate full marks.
- 3) Assume Suitable data if necessary.
- 4) Question no.1 is compulsory.
- 5) Solve any three questions from the remaining questions.

Q1	Answer briefly (Each question is for two marks):			[08]																								
CO- 1; SO- ; BL-	a	What do you understand by project identification ?		[02]																								
CO- 1; SO- ; BL-	b	What are the steps to calculate the function points?		[02]																								
CO- 1; SO- ; BL-	c	Differentiate PERT and CPM ( at least 4 points)		[02]																								
CO- 1; SO- ; BL-	d	As a project manager, determine your team members for developing your company's website.		[02]																								
Answer any two questions from Q2 to Q4 (Each question is for six marks)																												
Q2 CO- 1 ; SO-; BL-		<ul style="list-style-type: none"><li>Given the following values, compute function point when all complexity adjustment factor (CAF) and weighting factors are average, Calculate FPC<ul style="list-style-type: none"><li>User Input = 50</li><li>User Output = 40</li><li>User Inquiries = 35</li><li>User Files = 6</li><li>External Interface = 4</li></ul></li></ul> <table><tr><th>Function Type</th><th>Simple</th><th>Average</th><th>Complex</th></tr><tr><td>External Input</td><td>3</td><td>4</td><td>6</td></tr><tr><td>External Output</td><td>4</td><td>5</td><td>7</td></tr><tr><td>External Inquiries</td><td>3</td><td>4</td><td>6</td></tr><tr><td>Internal Logical Files</td><td>7</td><td>10</td><td>15</td></tr><tr><td>External Interface Files</td><td>5</td><td>7</td><td>10</td></tr></table>	Function Type	Simple	Average	Complex	External Input	3	4	6	External Output	4	5	7	External Inquiries	3	4	6	Internal Logical Files	7	10	15	External Interface Files	5	7	10		[06]
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Q3 CO-1; SO-; BL-		Explain in detail any 3 types of Float calculation with appropriate equations wherever required	[06]																																																										
Q4 CO -1;SO-; BL-		<p>Determine the activity schedule, PERT network and critical path of the given project :</p> <table><tr><th rowspan="2">Activity</th><th rowspan="2">Preceding Activity</th><th colspan="3">Time Estimate weeks</th></tr><tr><th>Optimistic</th><th>Most likely</th><th>Pessimistic</th></tr><tr><td>A</td><td>—</td><td>4</td><td>5</td><td>12</td></tr><tr><td>B</td><td>—</td><td>1</td><td>1.5</td><td>5</td></tr><tr><td>C</td><td>A</td><td>2</td><td>3</td><td>4</td></tr><tr><td>D</td><td>A</td><td>3</td><td>4</td><td>11</td></tr><tr><td>E</td><td>A</td><td>2</td><td>3</td><td>4</td></tr><tr><td>F</td><td>C</td><td>1.5</td><td>2</td><td>2.5</td></tr><tr><td>G</td><td>D</td><td>1.5</td><td>3</td><td>4.5</td></tr><tr><td>H</td><td>BE</td><td>2.5</td><td>3.5</td><td>7.5</td></tr><tr><td>I</td><td>H</td><td>1.5</td><td>2</td><td>2.5</td></tr><tr><td>J</td><td>F,G,I</td><td>1</td><td>2</td><td>3</td></tr></table>	Activity	Preceding Activity	Time Estimate weeks			Optimistic	Most likely	Pessimistic	A	—	4	5	12	B	—	1	1.5	5	C	A	2	3	4	D	A	3	4	11	E	A	2	3	4	F	C	1.5	2	2.5	G	D	1.5	3	4.5	H	BE	2.5	3.5	7.5	I	H	1.5	2	2.5	J	F,G,I	1	2	3	[06]
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