



GLOBAL INSTITUTE OF TECHNOLOGY

I MIDTERM EXAM 2020

III SEMESTER COMPUTER SCIENCE & ENGINEERING

3CS4-07 SOFTWARE ENGINEERING

SATURDAY, 12TH SEPTEMBER, 2020

Max. Time: 1:30 HOUR (+15 MIN FOR UPLOADING ANSWER SHEET)

MM: 24

NOTE:- Attempt all questions

Q1	Compare Spiral Model and Incremental Model stating the similarities and differences between both models. Also write advantages and disadvantages of both models.	(3+3=6)																		
Q2	Compare Verification and Validation and write any six differences.	(6)																		
Q3	<p>What do you Mean by FP analysis?? Compute the function points for the following data:</p> <table border="1"><thead><tr><th>Information Domain Values</th><th>Numbers (count)</th><th>Weighting Factors</th></tr></thead><tbody><tr><td>user inputs =</td><td>26</td><td>4</td></tr><tr><td>user outputs =</td><td>45</td><td>5</td></tr><tr><td>external inquiries =</td><td>10</td><td>4</td></tr><tr><td>logical files =</td><td>5</td><td>10</td></tr><tr><td>external interfaces =</td><td>4</td><td>7</td></tr></tbody></table> <p>Various processing complexity factors are: 4, 1, 0, 3, 3, 5, 4, 4, 3, 3, 2, 2, 4, 5.</p>	Information Domain Values	Numbers (count)	Weighting Factors	user inputs =	26	4	user outputs =	45	5	external inquiries =	10	4	logical files =	5	10	external interfaces =	4	7	(3+3=6)
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user outputs =	45	5																		
external inquiries =	10	4																		
logical files =	5	10																		
external interfaces =	4	7																		
Q4	Explain Basic COCOMO Model and calculate EFFORT, DURATION and PERSONS_REQUIRED for basic COCOMO if software size is given:= 56 KLOC	(3+3=6)																		