



ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION : JANUARY 2021
(Academic Session: 2020 – 21)

Name of the Program:	MCA	Semester:	III
Paper Title :	Software Engineering	Paper Code:	ECS52103
Maximum Marks :	40	Time duration:	3 Hours
Total No of questions:	8	Total No of Pages:	1
(Any other information for the student may be mentioned here)	<i>The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.</i>		

Answer all the Groups

Group A

Answer all the questions of the following

$5 \times 1 = 5$

1. a) What is the main difference between a computer program and computer software?
 b) Define verification and validation?
 c) Explain is feasibility study?
 d) What is the limitation of RAD Model?
 e) What are the prototyping methods in software process?

GROUP –B

Answer *any three* of the following

$3 \times 5 = 15$

2. Assume that the size of a software product has been estimated to be 32,00,00 lines of source code. Assume that the average salary of software engineers be Rs. 15,000/- per month. Determine the effort required to develop the software product and the nominal development time and the amount of money required to develop the software? Explain Bath-tub curve? $3+2=5$
3. Draw a Level-2(only) DFD for a Restaurant food delivery system? “Software Engineering is neither a form of science nor an art”-Justify your answer. $3+2=5$
4. Describe all the steps of Prototype Model with proper diagram along with its advantages and disadvantages. 5
5. Describe various types of Cohesion in correct order? Describe about the users of SRS document? $2.5+2.5=5$

GROUP –C

Answer *any two* of the following

$2 \times 10 = 20$

6. What are the characteristics of a good UI? Discuss about Branch Coverage mechanism? $5+5=10$
 7. Write a short note on Blackbox testing? Discuss about the difference between strong and weaker testing? $8+2=10$
 8. What is risk in a software project development? Describe various activities for containing risk activities? $2+8=10$
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