

## **RAN-5822**

## **MCA - IIIrd Semester Examination**

## March / April - 2019

Paper No. 303: Software Engineering

Time: 3	Hours ] [Total Marks: 70
સૂચના : /	Instructions
Name o	વેલ ► નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. strictly the details of ► signs on your answer book of the Examination: A - Illrd Semester of the Subject: Der No. 303: Software Engineering Code No.: 5 8 2 2  Student's Signature
Cabjeer	Student's Signature
Q-1 A.	Attempt the following (Any 3) [12]
1.	List and explain the factors that affect software estimation.
2.	Discuss basic principles for Project Scheduling.
3.	Explain Risk Table and its fields.
4.	Differentiate between Verification and Validation.
5.	What is Time line Chart (Gantt)? List the fields of this table.
Q-1 B.	List the advantages and limitations of prototyping model. [02]
Q-2.	Answer the following (Any 2):
A.	List the design Concepts. Explain any 2 in detail. [07]
	OR
A.	What is Functional Independence (FI)? Explain the two measures used to determine FI.

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B.	Explain the following (Any 2):	[07]
	i. Mapping of Analysis Model to Design Model using diagram.	
	ii. Transaction Mapping	
	iii. Quality Function Deployment	
Q-3.	Answer the following:	
A.	Explain Metrics for Software. Also, show using diagram, software metrics baseline process.	[07]
	OR	
A.	Which are the four P's necessary for effective project management? Explain the most important P amongst all of them.	[07]
В.	Explain the following (Any 2):	[07]
	i. Effort Distribution	
	ii. Project Control and Time Boxing	
	iii. Project Manager's objectives while managing a project	
Q-4.	Attempt the following:	
A.	Explain briefly, various software testing strategies.	[07]
В.	Explain the following (Any 2):	[07]
	i. Testing Characteristics	
	ii. Cyclomatic Complexity	
	iii. Metrics for Software Quality	
Q-5.	Write a short note on the following (Any 2):	[14]
1.	Risks and their categorization	
2.	Software Quality Assurance	
3.	Data Flow Diagrams	

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