Code No. : 31504

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (I.T.) III Year I-Semester (Main) Examinations, Nov./Dec.-2016

Software Engineering

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. List and explain characteristics of software.
2. Write the relationship between process and product.
3. Differentiate between functional and non functional requirements.
4. Describe design process.
5. Define software architecture.
6. Write Interface design steps.
7. What is validation testing?
8. What are the elements of SQA?
9. List the metrics for testing.
10. Elaborate on various risk strategies.

Part-B (5 × 10 = 50 Marks)

11. a)	Elaborate on team software process and personal software process.	[4]
b)	Describe various evolutionary process models.	[6]
12. a)	What is data model? Explain with an example.	[5]
b)	List and explain various design concepts.	[5]
13. a)	Explain about the architectural styles for software design.	[6]
b)	Elaborate Golden rules for User Interface Design.	[4]
14. a)	What is the overall strategy for software testing? Explain.	[5]
b)	Write in detail about CMMI.	[5]
15. a)	Explain in detail about the metrics for analysis model.	[6]
b)	Explain about RMMM plan.	[4]
16. a)	Explain the unified approach to software development. Discuss the merits and demerits of this approach.	[5]
b)	Explain in detail about behavioral models.	[5]
17.	Answer any *two* of the following:	
a)	Class based component level design	[5]
b)	White box testing	[5]
c)	RMMM.	[5]

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