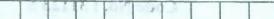
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Code No. : 31123 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. (CSE) III Year I-Semester Supplementary Examinations, May/June-2018

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 the merits and demerits of the spiral process model.
- 2. What do you understand from the term SCRUM?
- 3. Analyze the different categories of risks?
- 4. How is effort estimation done?
- 5. Enumerate the different levels of visibility of a class attribute with examples.
- 6. Structural modeling can be done through class diagram. Justify.
- 7. Differentiate between process and thread.
- 8. Is it mandatory to draw a collaboration diagram during the design of the system?
- 9. Evaluate as to when and how stress testing is done?
- 10. Write the expressions for Halstead's measure for source code.

Part-B $(5 \times 10 = 50 \text{ Marks})$

11.	a) Write the advantages and disadvantages of incremental model. Explain any one incremental model.	[5]
	b) State the need for refactoring? How can a development model benefit by the use of refactoring?	[5]
12.	a) What are the criteria for estimating a project? Analyze about the critical path method for web application project.	[4]
	b) Discuss the relationship between the concept of information hiding as an attribute of effective modularity and the concept of module independence.	[6]
13.	a) Explain about the terms Interface, Packages.	[4]
	b) Draw a class diagram for any business system that captures the relationships of dependency, aggregation and composition.	[6]
14.	a) Draw a deployment and component diagram for "online order processing system".	[6]
	b) When does use case diagram use the concept of < <extends>>, <<includes>>?</includes></extends>	[4]
15.	a) Describe the three debugging strategies with relevant examples.	[5]
	 b) Find the different independent paths and calculate the cyclomatic complexity using basis path testing for the given fragment of code: If A=10 THEN IF B>C THEN A-B ELSE A-C ENDIF ENDIF PRINT A 	s [5]

16. a) How is Agile methodology better than conventional software development models?	[5]
b) What are the design principles to be used in general for any software system?	[5]
17. Answer any <i>two</i> of the following:	
	[5]
	[5]
 c) Identify the objects in word processing application. Test the objects using graph- based testing methods. 	[5]
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