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To	otal No. of printed pages = 6
$\mathbf{C}$	S 131702
Ro	ll No. of candidate
,	2017
is .	B.Tech. 7th Semester End-Term Examination
	Computer Science Engineering
	SOFTWARE ENGINEERING
Ful	l Marks – 100 Time – Three hours
is a	The figures in the margin indicate full marks for the questions.
	Answer Question No.1 and any six from the rest.
	Answer the following questions (Do as directed):  (10 × 1 = 10)  (a) From the following which quality deals with maintaining the quality of the software product?

Quality assurance

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Quality control

(iii) Quality efficiency

(iv) None of the above

(i)

(ii)

(b)	State if the followings are true or false.						
. ,	For scheduling a project, it is necessary to						
	(i) Break down the project tasks into smaller, manageable form						
(ii) Find out various tasks and correlate the							
	(iii) Estimate time frame required for each task						
	(iv) Divide time into work-units						
	(1) True						
19	(2) False						
(c)	Software project manager is engaged with software management activities He is responsible for ————.						
¥	(i) Project planning						
	(ii) Monitoring the progress						
(iii) Communication among stakeholders							
	(iv) All mentioned above						
	(v) None of the above						
(d)	Classes communicate with one another via						
×	(i) Read sensors						
	(ii) Dial phones						
ī	(iii) Messages						
*	(iv) None of the above						
1							

When elements of module are grouped because
the output of one element serves as input to
another element and so on, it is called ————

- (i) Functional cohesion
- (ii) Communication cohesion
- (iii) Sequential cohesion
- (iv) Procedural cohesion
- (f) CASE tools cannot be grouped together if they have similar functionality, process activities and capability of getting integrated with other tools.
  - (i) True
  - (ii) False
- (g) Which of the following is not defined in a good Software Requirement Specification (SRS) document?
  - (i) Functional Requirement
  - (ii) Nonfunctional Requirement
  - (iii) Goals of implementation
  - (iv) Algorithm for software implementation
- (h) Software Requirement Specification (SRS) is also known as specification of \_\_\_\_\_\_.
  - (i) White box testing
  - (ii) Acceptance testing
  - (iii) Integrated testing
  - (iv) Black box testing

(i)	If requirements are easily understandable and defined then which model is best suited?			4.	(a)	Differentiate between functional and non-functional requirements. (5)
	(i) Spiral model				(b)	What is a Structure chart? (5)
	(ii) Waterfall model				(c)	Write a note on UML. (5)
	(iii) Prototyping model		5	5.		What is software quality management? Briefly
	(iv) None of the above		•	υ.	(a)	explain. (5)
(j)	Software process and improvement are assessed by		ti.		(b)	Explain briefly activities undertaken during requirements analysis and specification. (5)
	(i) ISO 9000	J			(c)	Mention some shortcomings of the classical
	(ii) ISO 9001				. (c)	waterfall model. (5)
TWI	(iii) SPICE (ISO/IEC15504)			6.	(a)	What is coupling? Discuss briefly any three
	(iv) Both (b) and (c)					types of coupling. (5)
(a)	Mention the important features of a structured program. (4)				(b)	What is cohesion? Discuss briefly any three types of cohesion. (5)
(b)	Identify the important techniques that software	10			(c)	What are software reliability metrics? (5)
	engineering uses to tackle the problem of exponential growth of problem complexity with its size. (6)			7.	(a)	Differentiate between high level design and detail design. (5)
(c)	Differentiate between programs and software product. (5)	,	·		(b)	What are coding standards and code review techniques? (5)
(a)	State four factors that have contributed to the making of the present software crisis. (4)	J			(c)	Differentiate between black box and white box testing. (5)
(b)	Explain what problems would occur if no life cycle model is followed. (6)	,	ē	8.	(a)	What is spiral model? Explain how it is different from waterfall model. (7)
(c)	Explain briefly the activities undertaken during feasibility study. (5)	H r			(b)	Explain the Evolutionary life cycle model of software development. (8)
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- 9. (a) Briefly explain SEI Capability Maturity Model and Personal Software Process (PSP). (8)
  - (b) What is case? What are the main advantages of case tools? Give the architecture of CASE environment. (7)