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II SEMESTER M.TECH (SOFTWARE ENGINEERING) END SEMESTER EXAMINATIONS, APRIL 2018

SUBJECT: SOFTWARE QUALITY ENGINEERING [ICT 5221]

REVISED CREDIT SYSTEM (17/04/2018)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates

- Answer ALL questions.
- Missing data may be suitably assumed.
- 1A. Illustrate with a neat diagram the universal model of user interface to show how the system's content and functionality are ordered and categorized.

1B. Identify and write the MISRA C++ rule which is violated in the following code snippets. Write the correct code in compliance with MISRA C++ rule.

1C. Differentiate software quality control and software quality assurance.

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2A	Explain with suitable illustration the five different methods of analysis phase in UX process.				
2B.		۲,			
2C.		2			
3A.	time slip and early defect detection test metrics computed?	Ę			
3B.	Explain the important factors that a test manager should take into account when estimating the	•			
3C.	costs of testing. Explain the need of six sigma methodologies.	3			
		2			
4A.	With a suitable illustration explain the Agile lifecycle process. Bring out the advantages of Agile testing.	5			
4B.	Identify and write the MISRA C rule which is violated in the following code snippets. Write the correct code in compliance with MISRA C rule.	್ತು 			
	void myfunc (int16_t * param1, const int16_t * param2, int16_t * param3)				
	*param1 = *param2 + * param3; return;				
	}				
4C.	What are the features of a clean code? Explain.	3			
		2			
5A.	With the help of a neat diagram explain the top down approach of FMEA. Write the steps in calculating relative risk in FMEA.	5			
5B.	What is black box testing? Explain two different types of black box testing.	3 3			
5C.	What is the need for software configuration management (SCM). Explain the SCM process.	2			