## **Question Paper**

Marks: 100

Exam Date & Time: 25-Apr-2018 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

## SCHOOL OF INFORMATION SCIENCE (SOIS) SECOND SEMESTER Master of Science - M.Sc (INFORMATION SCIENCE) DEGREE EXAMINATION - APRIL 2018 Wednesday, 25 April 2018 Time : 10:00 am to 1:00 pm Software Engineering [MIS 504]

Answer all the avertices				
	all the questions.	ate of coffware	(10)	
1)	Explain in detail the following aspe engineering.	ects of software	(10)	
	a. Maintenance Aspect			
	b. Team Programming Aspects			
	c. Design and Programming Aspec	ts		
	(Marks 3+3+4)			
2)	What is Software? What is a good		(2.5)	
	software engineering?What is the			
	software engineering and compute X 4)	er science? (Marks 2.5		
3)	Briefly discuss the below with an e	example	(3)	
	a) As-is scenario b) Visionary scena	ario c) Evaluation		
	scenario d)Training scenario			
	(Marks 2.5 X 4)			
4)	Give brief description of UML mode	eling elements in class	(3)	
	diagrams given below			
	a. Association, aggregation, dependency.	(Marks 6)		
	b. Inheritance			
	relationships	(Marks 4)		
5)	Give the software architecture diag		(3)	
	important contributing factors?How we can segregate			
	Software Architecture and Design into two distinct phases? What is software architecture discuss in			
		Marks 4+2+4)		
			Page	

**Duration: 180 mins.** 

6)	Why we need layout in user interface design? Give standard windows or Macintosh approach for screen layout? Name different properties or purposes of the layout?	(3)
	(Marks 4+4+2)	
7)	List five major parts of the ISO 9001:2000 document Requirements and briefly explain them?	(10)
8)	Discuss Equivalence class partitioning and Boundary value analysis approaches used to design black box test cases for the following requirement. For a function that computes the square root of integer values in the range between 0 and 5000.	(10)
9)	Name 4 unit testing approaches at organizational level? Explain Isolation testing in detail?Discuss advantages and disadvantages of isolation testing? (Marks 2+6+2)	(10)
10)	Discuss at least 6 coding standard Guide lines	(10)

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