Question Paper

Exam Date & Time: 20-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 Friday, 20 April 2018

Time: 10:00 am to 1:00 pm

Advance Programming Techniques [MIS 506]

Marks: 100 Duration: 180 mins.

Answer all the questions.			
1)	Write a short note on the important object oriented principles.	(10)	
2)	List any five features of Java with brief description of each feature.	(10)	
3)	 a) What is the difference between Primitive Data Type and Reference Data Type (2) b) Write note on iterative statements in Java (4) 	(10)	
	c) Write a note on Scope and Lifetime of variables in Java (4)		
4)	Define and explain the difference between method overloading and method overriding with suitable examples in java.	(10)	
5)	a) What are the features of a typical interface? Explain with an example. (5) b) Differentiate an interface from an abstract class (with reference to Java). (5)	(10)	
6)	a) Define Package with an example (5) b) Discuss general form of exception handling block in Java. (5)	(10)	
7)	Explain the following with their uses (with reference to Java): (2.5 x 4) a) super b) static c) final and finalize() d) Garbage Collection	(10)	

8)	Draw neat sketch of Life Cycle of a Thread and explain different states.	(10
9)	a) What do you mean by predefined streams(with	(10
	reference to Java)? (3)	
	b) What is serialization (with reference to Java)? Give one example for serialization. (7)	
10)	Write a note on JFC and Swing and describe the advantages over the AWT based approach for GUI development	(10

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