IMMARIUM IN PG - 502

IV Semester M.C.A. Examination, June 2016 (CBCS Scheme) COMPUTER SCIENCE

MCA 401T: Advanced Java Programming

Time : 3 Hours Max. Marks : 70

Instruction: Answer any five questions from Section – A and any four questions from Section – B.

SECTION -- A

Answer any five questions. Each question carries six marks.

 $(5 \times 6 = 30)$

- Compare and contrast overriding and overloading in java with example.
- 2. Define annotations. Discuss the types of java annotations with example.
- 3. Define thread. Discuss the multithreading concepts in java programming.
- 4. Discuss the different methods of Java console class with example.
- 5. Explain briefly the life cycle of Java Servlets.
- 6. What is XML Parser? Discuss the various types of Parsers in XML.
- Discuss the design patterns in Java and explain the singleton design pattern with an example.
- Explain the MVC architecture in Java.

SECTION-B

Answer any four questions. Each question carries ten marks.			(10×4≃40)	
9:	a)	Discuss the exception handling mechanisms briefly with an example.	5	
	b)	Define interface. Write a java program for the implementation of interf	ace. 5	
10.	a)	What is JVM ? Explain the internal architecture of JVM.	5	
	b)	Explain the java networking and write a java program using socket programming.	5	
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	a) Explain the role of super and final keywords with respect to inheritance.	5
10.	Explain the role of support and with an example.	5
	b) Explain Auto Boxing and unboxing with an example.	6
4.1	a) Differentiate serializable and externalizable interfaces in Java.	
F 1.	b) What is a datagram? Explain datagram packet and datagram socket in Java.	4
		6
12.	. a) Explain serviet life cycle.	4
	 b) Discuss the purpose of an Adaptor class with example. 	,
	Name various design patterns used in JDK Library and explain.	10
13	Name various design patterns association	5
. 14	 a) Explain in detail the purpose of Hibernate framework in Java. 	-
179	b) Explain dependency injection in Spring.	5