

END SEMESTER ASSESSMENT (ESA) MCA V SEMESTER- DEC 2018

UC16MC601 / UC14MC602 – ADVANCED JAVA PROGRAMMING

Time: 3 Hrs

Answer All Questions

Max Marks: 100

1.	a.	Write a note on the following with respect to JDBC i) Statement ii) Prepared Statement iii) Callable Statement	02+02 +02
	b.	Programmatically represent the following in JDBC Import required packages Load the Driver Get the DB Connection via Driver Execute SQL Queries via Connection Process results returned by SQL Queries Close all JDBC objects	06
	c.	Differentiate between JDBC and ODBC	04
	d.	Which methods from the HTTP Session class are used to achieve the following 1) returns unique identifier generated for each session 2) invalidates the session and unbinds all objects associated with it 3) returns time in milliseconds since January 1,1970 at which the session was first built 4) sets the length of time, in seconds, that a session should go without access before being automatically invalidated.	04
2.	a.	Write one-line each on the following HTTP1.1 Request and Response Headers	10
		Accept	
		Cache-Control	
		Authorization	
		Content-Disposition	
		Content-Length	
		Location	
		Host	
		Refresh	
		User-Agent	
		WWW-Authenticate	

02

3.	a.	Represent JSP Hierarchy(Tomcat) diagrammatically.	06
	b.	Devise a Java JSP program to get student information through a HTML and create a Java Bean class, populate bean and display the same information through another JSP. <div> Student USN: <input type="text"/> Marks: <input type="text"/> <input type="button" value="Display"/> </div>	10
	c.	Write the syntax for the following JSP useBean JSP include directive JSP taglib directive JSP page directive with import attribute	04
4.	a.	i) Bring out the steps to create JAR in eclipse ii) A user wants to create an annotation called "Author". This annotation must contain a single value "name". Write code to create the annotation and use the same annotation.	03 02+02
	b.	Explain the following options with respect to jar tool m u f	03
	c.	Enumerate the advantages of Java Beans.	05
	d.	Define Package. Differentiate between Interfaces and Classes.	01+04
5.	a.	What are the main tasks performed by IoC container? List the two types of IoC containers. Also programmatically create IoC container using both the ways.	07
	b.	Define Spring framework. What are the advantages of Spring framework?	02+04
	c.	Draw Spring Framework Architecture and explain.	03+04