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## PES University, Bangalore

(Established under Karnataka Act No. 16 of 2013) UC16MC601/UC14MC602

## END SEMESTER ASSESSMENT (ESA) MCA V SEMESTER- DEC 2018 UC16MC601 / <u>UC14MC602</u> – 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								
	Ъ.	Programmatically represent the following in JDBC Import required packages Load the Driver								
1		Get the DB Connection via		il en						
			xecute SQL Queries via Connection rocess results returned by SQL Queries lose all JDBC objects							
	c.	Differentiate between JDB	C 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.								
·	a.	Write one-line each on the following HTTP1.1 Request and Response Headers								
		Accept	Cache-Control							
		Authorization	Content-Disposition							
		Content-Length	Location							
		Host Refresh								
		User-Agent	WWW-Authenticate							

		SRN	
	b.	A servlet is accessed on the browser using the below URL -	04
1		http://FirstExample/ myfirstServlet	
		Create the web.xml entries for the same.	
	c.	Analyze the given statements and answer the following	= !
		<ul><li>i) Which two of the following statements are true?</li><li>a) The deployment descriptor must be well formed, i.e. every tag every tag</li></ul>	02
		must have a matching closing tag (or be closed with a forward slash) b)The deployment descriptor contains information on the configuration of servlets in a webapplication c)A single deployment descriptor may be used to configure multiple web	
		applications d)The deployment descriptor cannot contain comments	
		e)The deployment descriptor can be edited by the designer	
		ii) Which <b>one</b> of the following methods is NOT idempotent.	r
	3	a) Get b) Post	01
		c) Trace d) Head	
		e) Options	
		iii) Mahesh is a developer developing a web application. He wants his servlets to behave in a single threaded environment. Which <b>one</b> of the following will be the right choice to achieve the above?	01
		a)The servlet has to implement singleThreadedModel interface b)The servlet has to extend singleThreadedModel Class c)The servlet has to extend httpServlet which in turn implements SingleThreadedModel interface	
		d)It is not possible to make a servlet behave in a single threaded fashion	
		iv) Which two of the following are true about Cookies?	
		a)Cookies are created in clientside and stored in server side	
		b)Maximum of twenty cookies per website can be stored in a client machine	02
		c)Minimum size of a cookie is 8kb	
		d)Cookies can be created by using Cookie class	

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3.	a.	a. Represent JSP Hierarchy(Tomcat) diagrammatically.						
	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.  Student USN:  Marks:	10					
		Display						
	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	03					
		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.	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					
		Draw Spring Framework Architecture and explain.						