Roll No.	 	

## **BCA-E-504**

## B. C. A. (Fifth Semester) EXAMINATION, 2020-21

ADVANCE JAVA

*Time : 2:30 Hours* 

Maximum Marks: 60

**Note:** All questions have to be attempted.

## Section—A

- (a) valuator()
- (b) reset()
- (c) findForward()
- (d) execute()

(111)	•••••	page directive should be used in	JSP to			
	gene	generate a PDF page. (CO2)				
	(a)	contentType				
	(b)	generatePdf				
	(c)	typePDF				
	(d)	contentPDF				
(iv)	Spri	ng is developed by	(CO5)			
	(a)	Red Hat Software				
	(b)	Daniel Fernández				
	(c)	Pivotal Software				
	(d)	Apache				
(v)		is not a core interface of Hibernate	?			
			(CO3)			
	(a)	Configuration				
	(b)	Criteria				
	(c)	SessionManagement				
	(d)	Session				
(vi)	Abb	reviate the term POJO:	(CO3)			
	(a)	Performance Old Java Object				

Plain Old Java Object

None of the above

Performance Optimize Java Object

(d) (a) and (c)

	(xi)	How	many	techniques	are	used	in	Session
		Track	ing?					(CO1)
		(a) Z	2					
		(b) 3	3					
		(c) 4	4					
		(d)	5					
	(xii) Select the correct full form of HQL:							
		(a) ]	Hiberna	te Queue Lai	nguag	e		
		(b)	Hiberna	te Query Lar	nguag	e		
		(c)	Hipher (	Query Langu	age			
		(d) ]	None of	the above				
2.	Atte	mpt an	y four c	of the followi	ing:			3 each
	(a)	Write	advanta	ages of struts	<b>.</b>			(CO3)
	(b)	Defin	e first le	evel cache an	d sec	ond le	vel c	ache.
								(CO4)
	(c)	Differ	rentiate	CGI vs. Serv	lets.			(CO1)
	(d)	Explain ORM and JPA.						(CO4)
	(e)	Diffe	rentiate	JSP vs. Serve	ets.			(CO2)
				Section—B	3			
3.	Atte	mpt an	ıy <i>two</i> o	f the following	ng:			6 each
	(a)	Discuss and implement various scripting elements supported by JSP. (CO2)						
	(b)	Discuss the working of sentRedirect( ) forward( ) and include( ) method using diagram and						
		imple	ment a	program for	the sa	me.		(CO1)

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- (c) Discuss the importance of Java bean. Implement a program using Java bean. (CO2)
- 4. Attempt any *two* of the following: 6 each
  - (a) Discuss the working of Struts 2 Basic Flow and Standard flow using diagrams. (CO5)
  - (b) Discuss the life cycle of Servlets with the help of suitable example. Implement a program to read the values from HTML text fields. (CO1)
  - (c) Discuss the importance of Cookies in Servlets.

    Implement a program using cookies to manage the user session.

    (CO1)
- 5. Attempt any *two* of the following: 6 each
  - (a) Why we use Hibernate framework over JDBC?

    Explain various advantages of hibernate. Discuss the Hibernate architecture using a suitable diagram. (CO4)
  - (b) Discuss the concept of Exception handling in JSP and implement a program for the same in JSP.

(CO2)

(c) Discuss various features of spring framework in detail. Explain the spring modules and AOP concept in spring using diagrams. (CO5)