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Printed	Page:-	Subject Code:- ACSAI0612 Roll. No:
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NC	NDA INSTITUTE OF ENGINEEDING	AND TECHNOLOGY, CREATER NOIDA
NC		AND TECHNOLOGY, GREATER NOIDA ffiliated to AKTU, Lucknow)
	•	Fech
	SEM: VI - THEORY EXAM	MINATION (20 20)
	Subject: Advance	Java Programming
	3 Hours	Max. Marks: 100
	Instructions:	
		paper with the correct course, code, branch etc. ons -A, B, & C. It consists of Multiple Choice
	ns (MCQ's) & Subjective type questions.	
_	mum marks for each question are indicat	
	rate your answers with neat sketches who	· -
	ne suitable data if necessary.	
v	rably, write the answers in sequential or	
	ieet should be left blank. Any written mat ed/checked.	erial after a blank sheet will not be
evaiuaie	еи/спескеи.	
SECTION	ON-A	20
	npt all parts:-	
		uta in a HTTD Cassian abject in complete
1-a.	(CO1,K2)	ute in a HTTP Session object in servlets.
((a) session.addAttribute(name,value)	
	(b) session.setAttribute(name,value)	
	(c) session.createAttribute(name, value	
	(d) None of the above.	
1-b.	Select the true statement about servlets	s(CO1,K2)
((a) Servlets execute within the address	space of web server
	(b) Servlets are platform-independent l	
((c) Servlets can use the full functionali	
		s space of web server, platform independent and
	uses the functionality of java class librari	
1-c.	The implicit Object is used to access the	ne servlet context. (CO2,K2)
((a) pageContext	
	(b) config	
	(c) application	
	(d) out	
1-d.	The implicit Object is used to write ou	tput to the client browser(CO2,K2)
	(a) request	T

	(b)	response	
	(c)	out	
	(d)	application	
1-e.	V	Which are the ioc container in spring? (CO3,K1)	1
	(a)	BeanFactory	
	(b)	ApplicationContext	
	(c)	Both BeanFactory & ApplicationContext	
	(d)	None of the above	
1-f.	Jl	PA equivalent with hibernate.cfg.xml file (CO3,K1)	1
	(a)	configuration.xml	
	(b)	persistence.xml	
	(c)	jpa.configuration.xml	
	(d)	None of the above	
1-g.	T	his component contains the data of the application. (CO4,K1)	1
	(a)	Controller	
	(b)	Model	
	(c)	View	
	(d)	None of the above	
1-h.	_	is the default value of an input tag. (CO4,K1)	1
	(a)	number	
	(b)	date	
	(c)	email	
	(d)	text	
1-i.	A	innotation used for entity manager injection in EJB components.(CO5,K2)	1
	(a)	PersistenceContext	
	(b)	Persistence	
	(c)	PersistenceCon	
	(d)	None of the mentioned	
1-j.	A	analyze the JPA @Entity association attributes.(CO5,K2)	1
	(a)	Association validation	
	(b)	Association multiplicity	
	(c)	Association cascade behavior	
	(d)	Association direction	
2. Att	tempt	all parts:-	
2.a.	E	xplain JDBC in short.(CO1,K1)	2
2.b.	D	emonstrate the concepts of session Implicit Object in JSP.(CO2,K1)	2
2.c.	Е	xplain the term Dependency Injection(CO3,K1)	2

2.d.	State the difference between RequestMapping and GetMapping(CO4,K2)	2
2.e.	Explain the concept of database transaction.(CO5,K2)	2
SECTIO	<u>ON-B</u>	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	List advantages and disadvantages of Servlets.(CO1,K2)	6
3-b.	Discuss the difference between Get and Post method.(CO1,K2)	6
3-c.	Develop a JSP program for session tracking(CO2,K3)	6
3-d.	Builda JSP program to retrieve data from HTML into JSP page and display on browser.(CO2,K3)	6
3.e.	Explain Bean lifecycle in Spring framework.(CO3,K2)	6
3.f.	Explain SpringBoot and its features(CO4,K1)	6
3.g.	Explain the Persistent Properties in detail(CO5,K1)	6
SECTIO	<u>ON-C</u>	50
4. Answe	er any <u>one</u> of the following:-	
4-a.	Program to create a servlet that displalys the welcome message(CO1,K3)	10
4-b.	Distinguish between the following Servlet, Generic Servlet and HTTP Servlet. (CO1,K3)	10
5. Answe	er any <u>one</u> of the following:-	
5-a.	Develop a JSP application that uses the JSP API to programmatically create and manipulate JSP pages. Your application should demonstrate how to create JSP pages using the JspWriter object and how to manipulate the contents of the JSP page using the JspContext object. Write a brief report on the steps you followed to create the application, including details on the JSP API and its various objects.(CO2,K3)	10
5-b.	Define the purpose and key features of the JSP implicit object - out, and explain how it can be used to write output to the response stream.(CO2,K2)	10
6. Answe	er any <u>one</u> of the following:-	
6-a.	Discuss the role of JDBCTemplate also demonstrate update and delete operation on Student(sid, sname, saddress) Table using JDBCTemplate. (CO3,K3)	10
6-b.	Describe the JDBC? Which classes are present in the Spring JDBC API?(CO3,K2)	10
7. Answe	er any <u>one</u> of the following:-	
7-a.	Draw and explain the SpringBoot architecture. Also mention the role of four layers with flow of architecture. (CO4,K2)	10
7-b.	Differntiate between Spring, Spring MVC, and Spring Boot.(CO4,K2)	10
8. Answe	er any <u>one</u> of the following:-	
8-a.	Describe the purpose of the @OneToOne and @OneToMany annotations in JPA. Explain in detail with examples.(CO5,K2)	10
8-b.	Describe database transaction and how is it used in JPA?(CO5,K2)	10