Print	ed Pa	_	ubject Code:- ACSE0601 oll. No:	
NO	OIDA	INSTITUTE OF ENGINEERING AN (An Autonomous Institute Affili B.Tech SEM: VI - THEORY EXAM	ated to AKTU, Lucknow) INATION- (2023 - 2024)	TER NOIDA
Tim	.a. 3 I	Subject: Advanced Jav Hours	_	Iax. Marks: 100
		nstructions:	17.	1ax. Walks. 100
IMP:	Verif	fy that you have received the question pap estion paper comprises of three Sections -		
	_	(MCQ's) & Subjective type questions.	A, b, & C. II consists of Mui	upie Choice
2. <i>Ma</i>	ximun	m marks for each question are indicated of the sour answers with neat sketches wherev	-	iestion.
		suitable data if necessary.	er necessary.	
		ply, write the answers in sequential order.		
		t should be left blank. Any written materia checked.	l after a blank sheet will not	be
SECT	TION-	<u>[-A</u>		20
1. Att	empt a	all parts:-		
1-a.		Select the correct code to add an attribute is ervlets.(CO1)	n a HTTP Session object in	1
	(a)	session.addAttribute(name,value)	1	
	` ′	session.setAttribute(name,value)		
	(c)	session.createAttribute(name,value)		
	(d)	None of the above.		
1-b.		purpose of the ServletRespons	se object in a servlet. (CO1)	1
	(a)	To handle client requests	•	
	(b)	To obtain initialization parameters		
	(c)	To store session data		
	(d)	To send data back to the client		
1-c.		Choose one Implicit Object which is used configuration? (CO2)	to get information about the	servlet 1
	(a)	page		
	(b)	config		
	(c)	application		
	(d)	out		
1-d.	1			
	(a)	6		

	(b)	9				
	(c)	7				
	(d)	8				
1-e.	T	he correct syntax for annotation wiring is(CO3)	1			
	(a)	Inject				
	(b)	Bean				
	(c)	Autowired				
	(d)	Resources				
1-f.	D	iscuss the steps to handle shut down of IoC container? (CO3)	1			
	(a)	Using shutdownHook()				
	(b)	Using shutdownHandler()				
	(c)	Using registerHook()				
	(d)	Using registerShutdownHook()				
1-g.	N	AVC is an abbreviation that stands for (CO4)	1			
	(a)	Monthly Variable Component				
	(b)	Model View Controller				
	(c)	Myocardial Vascular Capacity				
	(d)	All of the above				
1-h.	T	he port is used by Spring Boot by default, to start the Tomcat (CO4)	1			
	(a)	9090				
	(b)	8080				
	(c)	0				
	(d)	4200				
1-i.		everal instances of one entity are connected with many instances of another ntity in a relationship.(CO5)	1			
	(a)	@ManyToOne Relation				
	(b)	@OneToMany Relation				
	(c)	@OneToOne Relation				
	(d)	@ManyToMany Relation				
1-j.	T	he JPA Entities will become detached when(CO5)	1			
	(a) man	(a) When the transaction (in transaction-scoped persistence context) commits, entities managed by the persistence context become detached.				
	(b) beco	If an application-managed persistence context is closed, all managed entities ome detached.				
	(c)	Using a clear method				
	(d)	All of these				
2. Att	empt a	all parts:-				
2.a.	E	xplain the working of DriverManager in JDBC.(CO1)	2			

2.b.	Demonstrate the concepts of session Implicit Object in JSP.(CO2)	2
2.c.	Define Bean Wiring.(CO3)	2
2.d.	Explain role of dependency Injection.(CO4)	2
2.e.	Describe the role of Entity Manager in JPA.(CO5)	2
SECTI	ION-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	List advantages and disadvantages of Servlets.(CO1)	6
3-b.	Describe all the life-cycle methods for a servlet.(CO1)	6
3-c.	Builda JSP program to retrieve data from HTML into JSP page and display on browser.(CO2)	6
3-d.	Demonstrate the purpose and syntax of JSP expression tags, and provide an example of how they can be used.(CO2)	6
3.e.	Differentiate between constructor injection and setter injection.(CO3)	6
3.f.	Discuss about component scans, Configuration in spring boot with example.(CO4)	6
3.g.	List out some features of JPQL.(CO5)	6
SECTI	ION-C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Distinguish between the following Servlet, Generic Servlet and HTTP Servlet.(CO1)	10
4-b.	Describe the Transaction Management in JDBC and why do we need it?(CO1)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	Develop a JSP application that uses the JSP custom tag library to implement a simple login functionality. Your application should use the JSP custom tags to validate user input and redirect the user to a welcome page if the login is successful. Write a brief report on the steps you followed to create the application, including details on the JSP custom tag library and the JSP tag life cycle.(CO2)	10
5-b.	Build a JSP program to show and display at least 3 active control.(CO2)	10
6. Ansv	wer 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)	10
6-b.	Implement a program to inject a Java Collection in Spring.(CO3)	10
7. Ansv	wer any <u>one</u> of the following:-	
7-a.	Define Spring Boot Auto Configuration Classes and its need. Show code for configuration transaction manager. (CO4)	10
7-b.	Explain about Spring Boot CRUD Operations and show with example the create operation.(CO4)	10
8. Ansv	wer any one of the following:-	
8-a.	Discuss the various query methods in JPA to retrieve data from the database. List	10

some of the most used methods.(CO5)

8-b. Difference between JPA Repository and CRUD Repository. Explain with the help of an example.(CO5)

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