Printed Page:- 04		Subject Code:- AMICSE0601 Roll. No:								
NC	DIDA	(An Autonomous Institute Af	AND TECHNOLOGY, GREATER NOIDA ffiliated to AKTU, Lucknow) Tech (Integrated)							
		Subject: Advanced .	Iava Progran	nmin	g					
		Hours				I	Max.	Ma	rks:	100
IMP: 1. Thi Quest 2. Ma 3. Illu 4. Ass 5. Pre 6. No	Verify is Que tions (1 ximun strate sume s eferabl sheet	structions: by that you have received the question pastion paper comprises of three Section MCQ's) & Subjective type questions. In marks for each question are indicate by your answers with neat sketches when suitable data if necessary. ly, write the answers in sequential ord should be left blank. Any written mate hecked.	ns -A, B, & C. d on right -ha rever necessar er.	. It co and si ry.	onsists ide of o	of Mu each q	ıltiple uesti	e Cho		
	<u>FION-</u>									20
	-	all parts:-				• ,•				1
1-a.	se (a)	elect the correct code to add an attribu ervlets.(CO1) session.addAttribute(name,value) session.setAttribute(name,value)	te in a HTTP	Sessi	on ob	ject in				1
	(c)	session.createAttribute(name,value)								
	(d)	None of the above.								
1-b.	(a) (b) (c) (d)	purpose of the ServletRespondent To handle client requests To obtain initialization parameters To store session data To send data back to the client	onse object in	a sei	rvlet. ((CO1)				1
1-c.		Choose one Implicit Object which is use onfiguration? (CO2)	ed to get infor	rmatio	on abo	out the	serv	let		1
	(a) (b) (c) (d)	page config application out								
1-d.	. ,	otal implicit Objects are available in J	SP page (CO)	2)						1
- •••	(a)	6	r80 (002	-,						

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	(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.	The port is used by Spring Boot by default, to start the Tomcat (CO4)					
	(a)	9090				
	(b)	8080				
	(c)	0				
	(d)	4200				
1-i.		everal instances of one entity are connected with many instances of another	1			
	er	ntity in a relationship.(CO5)				
	(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) When the transaction (in transaction-scoped persistence context) commits, entities managed by the persistence context become detached.					
	(b)	If an application-managed persistence context is closed, all managed entities				
		ome detached.				
	(c)	Using a clear method				
	(d)	All of these				
2. Atte	-	all parts:-				
2.a.	E	xplain the working of DriverManager in JDBC.(CO1)	2			

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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				
<u>SECTI</u>	<u>ON-B</u>	30				
3. Answ	ver 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	<u>ON-C</u>	50				
4. Answ	ver 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. Answ	ver 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. Answ	ver any <u>one</u> of the following:-					
б-а.	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. Answ	ver 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. Answer any <u>one</u> of the following:-						
8-a.	Discuss the various query methods in JPA to retrieve data from the database. List	10				

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some of the most used methods.(CO5)

8-b. Difference between JPA Repository and CRUD Repository. Explain with the help 10 of an example.(CO5)

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