Printe	ed P	-	ject Cod . No:	le:- <i>A</i>	ACSA	\I061	2			
NO	ID A	OA INSTITUTE OF ENGINEERING AND	TECHN	OL(GY,	GRI	EATI	ER N	OI	DA
		(An Autonomous Institute Affiliate								
		B.Tech								
		SEM: VI - THEORY EXAMINA				1)				
Tim	۵۰ 3	Subject: Advanced Java 3 Hours	Progran	nmın	g		Ma	v M	ark	s: 100
		Instructions:					1V1a	A. 1VI	11 K	5. 100
		rify that you have received the question paper	with the	corr	ect c	ourse	, cod	e, bro	ıncl	h etc.
1. This	s Qı	uestion paper comprises of three Sections -A,	B, & C.	It co	nsist	s of N	<i>Iultip</i>	ole Cl	roic	ce.
_		s (MCQ's) & Subjective type questions.								
		num marks for each question are indicated on			de of	each	ques	stion.		
		ate your answers with neat sketches wherever e suitable data if necessary.	necessar	ry.						
		ably, write the answers in sequential order.								
		eet should be left blank. Any written material a	fter a bl	ank s	heet	will n	ot be			
evalud	ited	d/checked.								
SECT	OI	<u>N-A</u>								20
1. Atte	emp	pt all parts:-								
1-a.		Auto refresh of a page can be set after 5 seco correct option. (CO1)	nds with	folly	wowi	ng co	de? S	Select	the	e 1
	(a)	a) session.setIntHeader("Refresh", 5)								
	(b)	response.setIntHeader("Refresh", 5)								
	(c)	e) request.setIntHeader("Refresh", 5)								
	(d)	d) None of the above								
1-b.		Select the correct code to add an attribute in a (CO1)	a HTTP	Sessi	on ol	oject	in ser	vlets	•	1
	(a)	a) session.addAttribute(name,value)								
	(b)	o) session.setAttribute(name,value)								
	(c)	e) session.createAttribute(name,value)								
	(d)	d) None of the above.								
1-c.		The implicit Object is used to access the serv	let conte	ext. (CO2)					1
	(a)	a) pageContext								
	(b)	o) config								
	(c)	e) application								
	(d)									
1-d.		Choose one Implicit Object which is used to configuration? (CO2)	get infor	rmati	on ab	out tl	ne sei	vlet		1

	(a)	page				
	(b)	config				
	(c)	application				
	(d)	out				
1-e.	Which are the ioc container in spring? (CO3)		1			
	(a)	BeanFactory				
	(b)	ApplicationContext				
	(c)	Both BeanFactory & ApplicationContext				
	(d)	None of the above				
1-f.	The correct syntax for annotation wiring is (CO3)					
	(a)	to bean configuration.				
	(b)	to bean configuration.				
	(c)	to bean configuration.				
	(d)	to bean configuration.				
1-g.	T	his component contains the data of the application. (CO4)	1			
	(a)	Controller				
	(b)	Model				
	(c)	View				
	(d)	None of the above				
1-h.	_	is the default value of an input tag. (CO4)				
	(a)	number				
	(b)	date				
	(c)	email				
	(d)	text				
1-i.	A superclass is defined as an object without a matching database table in Inheritance, and its attributes and mappings are inherited by its subclasses. (CO5)					
	(a)	Table per class strategy				
	(b)	Joined table strategy				
	(c)	Single table strategy				
	(d)	Mapped Superclass				
1-j.		Several instances of one entity are connected with many instances of another entity in a relationship. (CO5)				
	(a)	@ManyToOne Relation				
	(b)	@OneToMany Relation				
	(c)	@OneToOne Relation				
	(d)	@ManyToMany Relation				
2. Att	empt	all parts:-				
2.a.	D	Describe the use of HttpServletRequest and HttpServletResponse. (CO1)	2			

2.b.	Discuss the concepts of application Implicit Object in JSP. (CO2)	2
2.c.	Describe Spring DAO support. (CO3)	2
2.d.	Can we create a non-web application in Spring Boot? Explain how. (CO4)	2
2.e.	Illuminate the purpose of cascading operations in JPA. (CO5)	2
SECTI	ON-B	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Discuss the concept of servlet how it gets access to its init parameters. (CO1)	6
3-b.	Explain the Servlet API. (CO1)	6
3-c.	Demonstrate the purpose and key features of the request Implicit Object in JSP development, and provide an example of how it can be used to access request data. (CO2)	6
3-d.	Discuss the initialization phase of the JSP life cycle, and explain how it prepares the servlet for execution by initializing all necessary resources. (CO2)	6
3.e.	Discuss the importance of Spring bean configuration file. (CO3)	6
3.f.	Create the bean class and .html page for student registration showing private variables and methods. (CO4)	6
3.g.	Demonstrate the purpose of EntityManager in JPA. (CO5)	6
SECTI	<u>ON-C</u>	50
4. Answ	ver any <u>one</u> of the following:-	
4-a.	Build a program that provide the GenericServlet class and its method implementation (CO1)	10
4-b.	Describe the procedure to connect MySQL or Oracle with Java (CO1)	10
5. Answ	ver any <u>one</u> of the following:-	
5-a.	Develop a JSP application that uses the various Implicit Objects available in JSP to create a simple online shopping cart. Your application should demonstrate the use of Implicit Objects such as request, response, pageContext, session, application, and out. Write a brief report on the steps you followed to create the application, including details on the Implicit Objects and how they are used to build web applications. (CO2)	10
5-b.	Build a JSP application that uses the JSP standard tag library (JSTL) to implement database connectivity. Your application should use JSTL tags to connect to a database, retrieve data, and display the data on a JSP page. Write a brief report on the steps you followed to create the application, including details on the JSP API and how it relates to database connectivity using JSTL tags. (CO2	10
6. Answ	ver 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 in java sprinig to create a Student(sid, sname, saddress) Table and insert three record in this table. (CO3)	10

7. Answe	er 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.	Construct a web based application using concept of Spring MVC for two students and compare their marks. (CO4)	10
8. Answe	or any one of the following:-	
8-a.	Give brief overview to fetch a record using NamedQuery. (CO5)	10
8-b.	Insert a record using JPA. Also discuss the mechanism used to connect database. (CO5)	10

