Printed Page:-04		Subject Code:- AMICSE0601 Roll. No:						
NC	OIDA I	INSTITUTE OF ENGINEERING A	ND TECHNOI	LOGY, G	REAT	ER N	OID)A
		(An Autonomous Institute Af	filiated to AKT	U , Luck n	ow)			
			ech (Integrated		_\			
		SEM: VI - THEORY EXA	,		5)			
Tim	ne: 3 H	Subject: Advanced J	Java Programm	ıng	M	ax. Ma	arke	. 100
		structions:			1716	1A, IVI	11 NS	. 100
		y that you have received the question p	paper with the co	rrect cou	rse, cod	le, bro	ınch	etc.
		stion paper comprises of three Section	-					
Quest	ions (l	MCQ's) & Subjective type questions.				_		
2. <i>Ma</i>	ximun	n marks for each question are indicate	d on right -hand	side of e	ach que	estion.		
		your answers with neat sketches when	rever necessary.					
		uitable data if necessary.						
	•	ly, write the answers in sequential order		. al. a a4	11 4 %			
		should be left blank. Any written mate hecked.	riai ajter a biank	sneet wi	u not v	e		
evaiu	лец/ст	пескей.						
SECT								20
	-	all parts:-	1 .	(001	17.1)			1
1-a.		elect the true statement about javax.ser						1
	(a) stori	This attribute gives exact error messing in a java.lang.String data type.	age which can be	e stored a	nd anal	ysed a	ıfter	
	(b) anal	This attribute gives information about ysed after storing in a java.lang.Class	* * *	which ca	an be st	ored a	ınd	
	(c)	This attribute gives status code whic .lang.Integer data type.		nd analys	sed afte	r stori	ng ir	ı a
	Ū		ut IIDI aallina tl		م ما ند	h	atan	اد ما
	(d) and	This attribute gives information about analysed after storing in a java.lang.St	•	ie serviei	and it	zan be	Stor	ea
1-b.	Se	elect the correct option to rollback a JI	OBC transaction(CO 1,K	1)			1
	(a)	rollback()						
	(b)	rollforward()						
	(c)	deleteTransaction()						
	(d)	RemoveTransaction()						
1-c.	` /	hoose one Implicit Object which is use	ed to get informa	tion abou	it the se	rvlet		1
1-0.		onfiguration? (CO2,K1)	ed to get informa	tion abou	it the se	AVICE		1
	(a)	page						
	(b)	config						
	(c)	application						

	(d)	out	
1-d.	P	hases are in the life cycle of a JSP page (CO2,K1)	1
	(a)	2	
	(b)	3	
	(c)	4	
	(d)	5	
1-e.	D	iscuss the steps to handle shut down of IoC container? (CO3,K2)]
	(a)	Using shutdownHook()	
	(b)	Using shutdownHandler()	
	(c)	Using registerHook()	
	(d)	Using registerShutdownHook()	
1-f.	T	he constructor mode of autowiring is(CO3,K1)]
	(a) bear	Autowiring by property name. Spring tries to match and wire its properties with the as defined by the same names in the configuration file.	•
	(b) tries	Spring first tries to wire using autowire by constructor, if it does not work, Spring to autowire by byType.	
	(c) mate	Autowiring by property type. Spring tries to match and wire a property if its type ches with exactly one of the beans name in configuration file.	
	(d) one	Similar to byType, but type applies to constructor arguments. If there is not exactly bean of the constructor argument type in the container, a fatal error is raised.	7
1-g.	A	nnotation @PathVariable is used to(CO4,K1)]
	(a)	Map an entity	
	(b)	Map a path URI	
	(c)	Map an input param	
	(d)	none of the above	
1-h.		he HTTP method to update a particular resource in Spring MVC is(CO K1)	1
	(a)	PUT	
	(b)	POST	
	(c)	GET	
	(d)	DELETE	
1-i.	A	n alternative to Spring's HibernateTemplate is(CO5 ,K1)]
	(a)	HibernateContext	
	(b)	Hibernate's contextual sessions	
	(c)	Hibernate Sessioin	
	(d)	None of the Above	
1-j.		hoose those which is not belongs to the JPA @Entity association attributes.(CO5 X1)	1
	(a)	Association validation	

	(c) Association cascade behaviorwrong	
	(d) Association direction	
2. Atte	empt all parts:-	
2.a.	Discuss the difference between Cookies and HttpSession.(CO1, K1)	2
2.b.	Interpret the concepts of initialization phase in the JSP life cycle.(CO2 ,K 2)	2
2.c.	Discuss the different features of Spring Framework.(CO3 ,K 2)	2
2.d.	Discuss about validations in Spring MVC.(CO4, K2)	2
2.e.	Dsicuss about the constraints on an entity class? (CO5,K2)	2
SECT	TION-B	30
3. Ans	swer any <u>five</u> of the following:-	
3-a.	Describe all the life-cycle methods for a servlet.(CO1,K2)	6
3-b.	Explain ResultSet interface.(CO1, K2)	6
3-c.	Compare and contrast JSP scriptlet, expression, and directive tags, and discuss the advantages and disadvantages of using each.(CO2 ,K 4)	6
3-d.	Compare and contrast JSP and Servlets, and discuss the advantages and disadvantages of using each.(CO2,K4)	ϵ
3.e.	Discuss Spring Java-Based Configuration with some annotation example.(CO3 ,K2)	6
3.f.	Design and show errorpage.jsp layout.(CO4,K4)	ϵ
3.g.	Explain JPA Architecture or Explain the core classes and interfaces of JPA API. (CO5,K2)	6
SECT	TON-C	50
4. Ans	swer any one of the following:-	
4-a.	Discuss the limitations of PreparedStatement and how to overcome it.(CO1, K2)	10
4-b.	Describe the procedure of connecting MySQL or Oracle with Java. Describe each and every step using Program.(CO1, K2)	10
5. Ans	swer any one of the following:-	
5-a.	Discuss the various implicit objects available in JSP, including the request, response, pageContext, session, and application objects, and explain the purpose and key features of each object.(CO2 ,K 2)	10
5-b.	Elucidate the purpose and key features of the JSP Precompilation feature, and discuss how it can be used to improve the performance of JSP applications.(CO2,K2)	10
6. Ans	swer any <u>one</u> of the following:-	
6-a.	Describe the steps of the Bean lifecycle with suitable diagram.(CO3, K2)	10
6-b.	Illustrate some of the important Spring annotations you have used?(CO3 ,K2)	10
7. Ans	swer any one of the following:-	

Association multiplicity

(b)

/-a.	operation.(CO4,K2)	10
7-b.	Create a employee database with fields empname, empid, salary, empdept. In MYSQL and write its connection file i.e. SpringBootJdbcApplication.java and SpringBootJdbcController.java.(CO4, K3)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Discuss the various query methods in JPA to retrieve data from the database. List some of the most used methods.(CO5,K2)	10
8-b.	Discuss the process of persisting JPA entities into a database using the EntityManager in JPA.(CO5, K2)	10

