

SRM UNIVERSITY DEPARTMENT OF INFORMATION TECHNOLOGY

Course Code & Title: IT1022 - Integrative Programming and Technology Date: 30-10-2017

Duration: Total: 100 Marks Duration: 3 hrs

INSTRUCTIONAL OBJECTIVES

IO2: Explore core object-oriented design patterns of J2EE and their applications.

IO3: Understand and create components in Microsoft Environment and EJB. IO4: Develop an architect web services using Java

STUDENT OUTCOMES:

1. [Outcome i]: An ability to use current techniques, skills, and tools necessary for computing

i2. An ability to understand tools necessary for computing practice

2. [outcome j]: An ability to use and apply current technical concepts and practices in the core information technologies

j1. An ability to use and apply current technical concepts in the core information technologies

j2. An ability to use and apply current practices in the core information technologies

[outcome m]: An understanding of best practices and standards and their application m1. An Ability to understand best practices in the area of computing practice and their applications

m2. An Ability to understand best fit standards in the area of computing practice and their

applications

	Q.	Ref.	Ref.	Marks	Marks	LO
	No.	to IO	to	Allotted	Scored	Met
		<u> </u>	SO			Y/N
	1	IO3	j1	1		
	2	IO3	j ½	1		
	3	IO3	<u>j1</u>	1.		
	.4	IO3	j2	1		
	5	IO3	j2	1		
T	6	IO2	i2	1		
T	7	IO2	i2	1		
1	8	IO2	i2	-1	,	
1	9	IO2	i2	1		,
H	10	102	i2	1		
_	11	IO3	j2	1		
	12	IO3	j2	1		
-	13	103	j2	1		
	4:	IO3	j2	1		
_	5	IO3	j2	1		-
	6	IO4	m1	1		
	7	IO4	m1	1		
	8	IO4	m1	1		
100	9	IO4	m2	1		100
	0	IO4	m2	1		

Q. No.	Ref. to IO	Ref. to SO	Marks Allotted	Marks Scored	LO Met Y/N
Part-	B Questi	ions			1
.21	IO3	j1	4		-
22	IO3	j1	4		-
23	IO2	i2	4		
24	IO3	j2	4		
25	IO3	j2	4		
26	IO4	m1	4		
27			4		
Part-C Questions					
28a	IO3	j2	12		
28b	IO3	j2	12		
29a	IO2	i2	12		
29b	IO2	i2	12		
30a	IO3	j2	12		
30b	IO3	j2	12		
31a	IO4	m2	12		
31b	IO4	m2	. 12		
32a	IO3	j2	12		
32b	IO3	j2	12	La respective	
	Total N	Marks	Scored	4 100	



SRM UNIVERSITY DEPARTMENT OF INFORMATION TECHNOLOGY

Cycle Test - II

Course Code & Title: IT1022 – Integrative Programming and Technology Date: 30-10-2017

Semester / Year : VII / IV

Total: 100 Marks

SET C

Part B any 5 (5X4 = 20)

21. Explain your understanding of MSMQ?

22. "MSMQ can send and receive messages as a transaction" Justify

23. Compare and contrast Transfer Object and Session Façade

24. Draw the J2EE container architecture diagram.

25. State the purpose of an Enterprise Java Bean (EJB) home interface.

26. What are the limitations of UDDI?

27. Write a sample code snippet to enable communication between SOAP nodes

Part C (5X12 = 60)

28.a. A typical message queuing scenario achieves reliable asynchronous messaging between a client computer and a server application. The client application might be an order application that is used for entering orders from customers. This application could be installed on a laptop computer, the laptop moving with the salesperson from customer site to customer site. Connectivity might not be available from every customer site to the head office. When connectivity is unavailable, the order application on the salesperson's laptop computer would use message queuing to queue messages that contain order information to a local outgoing queue on the laptop computer. Suggest a window based component and a sample code

- b. Explain how transactions and MSMQ fit together? Explain with sample code.
- 29. a. Discuss in detail about Composite view design pattern [hint: pattern should include problem, forces, entities and solutions]

- b. Discuss in details about Front controller design pattern [hint: pattern should include problem, forces, entities and solutions]
- 30. a. How many types of messaging model do JMS provide for and what are they? Explain with suitable diagram.

Or

- b. i) What container does? List the responsibility and services provided by container. (6)
 - ii) With neat diagram explain EJB Container Architecture. (6)

- 31.a What do you mean by SOAP encoding? How to specific encoding style in SOAP?

 b.. List the different pages associated with UDDL
- 32. a Create a stateless session bean for shopping cart application.

b. Consider the following scenario, after returning to the branch office, the salesperson establishes connectivity with the head office, and the queued messages are then transferred using SRMP from the local message queue on the laptop computer to a Web service that ruthe message queue server at the head office. The Web service passes the SRMP messages the QueueManager on the server, which places them into the receiving message queue. At point, the orders are retrieved from the message queue on the server and processed by the application. Write a sample java code for receiving message from queue and sending the message to server queue



SRM UNIVERSITY DEPARTMENT OF INFORMATION TECHNOLOGY Cycle Test - H TT1022 - Integrative Programming and Technology Date: 30-10-2017 Duration: 31

Semester / Year : VII / IV	- Integrative Programming and 700	Duration: 3 Hrs
Total: 100 Marks		20X1 = 20
	Part A	
1 are good for inter-	application communication across servers	
a. Message		
b. Public Queue		
c. Private Queue		
d. Components		
Filling the contents of the a. MSMQ transactio	messages, is the step involved in n b MSMQ receiver c. MSMQ Events	d. MSMQ transmittal
3. Message queuing provides		1
a.Guaranteed message delivery	y, efficient routing, security and priority based	d messaging
c. only routing		
d. only security and priority ba	ased.	
4.MSMQ messages are limite	ed to of data	
a. 4KB b.4MB	c.8MB d. 2MB	
5. MSMQ is amess: a. Component-C b. Container-Ori c. Compound – d. Centralized S	Oriented. Gented. Oriented	
	enterprise beans and other business services	asynchronously
6. pattern used for activating c	c. service activator.	
a. data access object b. Fast lane reader		
7 which pattern is most appro	priate when a decision must be made at the	time a class is instantiated?
a.bridge b.composite	c. Factory method d.command	
8. Which of the following is to	rue about design patterns?	
a. Design patterns redevelopers.	epresent the best practices used by exper	rienced object-oriented softwar
b.Design patterns are development.	solutions to general problems that software	developers faced during softwa
c.Design patterns are substantial period of t	obtained by trial and error by numerous ime.	software developers over quite
d. All of the above.		
	그런 어떻게 가 어떻게 되었다.	

9.			
a. Singleton Pattern b. Design Patt	Ilrring - 1		
b. Design Patt	tern	o a problem, given	a context.
10. hides the java code a. Composite pattern b. V 11. Which of the following is not as	e.	Factory Pattern	d. None of the above
a. Composite part	in helper classe		
II many	View Helper c	Session Facada	d. Business delegate
11. Which of the following is not a p (a) Atomicity (b) Consistency	1 0.	session raçade	d. Dusines
C TO HOLD IN	property of EJB	transaction?	
(b) Consistency (c) Isolation			
(d) Distributed			
Distributed			
12 using which:			
a. Bean instance is used for a	Iccess the boar		
12 using which instance is used for a a. Bean instanceb.Bean Remote inter	rface instance	nethods and proper	rty?
13. this bean is alm	motunee c.	chent instance d.	class ilistance
a, javahean	ingle client		
c. stateful session bean d. b.stat	teless session be	an	
a. message d	lriven bean		
14. Which statement about			
a.it is a final class b. overloaded	bean are true?		
a.it is a final class b. overloaded cor c. Their business methods can be priv	nstructors are su	pported	
or pitt	are a. the ejb c	reate() method mu	st not be final method.
15. WILLIE SESSION hear maint			
their state across server crashes or shu	i state between t	client invocations l	out are not required to maintain
a. Stateful Session Rean	ateless Session I		
c. Singleton Session Bean	d. None of the	ocan ne above	
16 COAD:	one of the	ic above	
16. SOAP is a			
a. programming language			그는 사이지 하늘 나는 경력이 있다. 나를 누나를
b. a business application component			
c. a portable communication protocol d. software			
d. Software			
17. is a combination	0.1		
machine	of the Web bro	wser and Java Plu	g-in running together on the client
a. Web Container			together on the client
b. Applet Container			
c. Applet Client Container			
d. EJB Container			
10 Which call call	out Impro		
a LIDDL is an YMI -based a	tondond for 1		g, and finding web services.
h IIDDI is a enecification for	or a distillate	cribing, publishin	g, and finding
b.UDDI is a specification for c. UDDI is platform independent,	oner for	registry of web se	ervices web services.
d. All of the above	open framewor	k.	
그 프로그램 그 그 그 그래 집에 다른 전문에 있는 그는 그 전에 하는데 그리고 그래 되었다. 그는 그를 모르는 그 가지 않는			
TTPO TO T			
	c.XML	d.SOAP	
20 which among the following is			성 그리다 마음하다 유로워?
20, which among the following is not inc a. envelope b.header	cluded in anato	my of SOAP mee	2000
a. chrotope o.meader	c. body	d. port type	94 8 CN
등의 가능하다 하다고 나는 사람들이 하는 하는 가는 사람이 됐다.			