SRM University Department of Information Technology 15SE203- OBJECT ORIENTED ANALYSIS AND DESIGN

CYCLE TEST-II

Part-A (MCQ- 20 Marks)

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rates	MCQ- 20 Marks) s can be placed anywhere and illustrate the interaction in b) State chart diagram
tish diagram the objects	s can be placed any with
1. In the following diagram, which diagram	b) State chart diagram
network format	b) State chart diagram d) Collaboration Diagram tow of objects?
a) Interaction Diagram c) Activity Diagram Which element in the sequence diagram shows the a) Feedback arrow	d) Could be a series of objects?
2 Marish playment in the sequence diagram shows the	b) lifeline
a) Feedback arrow	d) message numbering
c) message arrow	irectly below it.
c) message arrow 3. Each layer only calls upon services of the layer di	b) Visual layer architecture b) Visual layer architecture
a) state Layer architecture	b) Visual layer alculud) d) Collaboration Diagram
e) strict layer architecture 4. What are the two method to control transition in	state machine diagram
4. What are the two method to control dansace	b) Condition, Effects
 a) Initializing, Duration b) Timer, Duration c) Timer, Duration d) If you see the expression "[if i=5]" along a line in the interval of th	d) Flow, Merge
c) Timer, Duration [5] If you are the expression "lift i=5]" along a line i	n a state diagram, Messages
a) Textual Description	d) Event
c) Guard/Condition Statement	deployment diagrams?
c) Guard/Condition Statement 6. Which among these are the common notations for a) Artifacts and nodes b)	Cterentypes
a) Artifacts and nodes	All of the mentioned
c)Components	All of the 22
7. Which design pattern abstract the instantiation pr	b) Creational Pattern
a) Structural Pattern	d) Instantiation Pattern
c) Behavioural Pattern	
Adaptor Pattern also known as	b) Wrapper Pattern
a) Adjacent Pattern	1) Factory Adaptor P
c) Creational Pattern	an Adaptee in Adaptor pattern.
c) Creational Pattern 9. Which concept is used to bind an Adapter and a	b) Interface
a) Delegation	d) All of the above
b) Inheritance 10. Which pattern is used to represent a part-who	le relationship in a dec salar
10. Which pattern is used to represent a	b)Factory
a) Adaptor c) Composite	d) Bridge
11. Object Identifiers are used to link	b)keys and values
1 ' to and perferill	
c) Forms and items 12. Class that is responsible for materialization,	d) data and data object eaching
Class that is responsible for materialization,	A)Database broker
c)Both a and b 13. Creation of an associative table with keys of	chath objects is used to create
Creation of an associative table with keys of	b)One to many
a)One to one	d)Does not create any relationship
c)many to many 14. Satellite based navigation is an example of	b)Web Application
a)Artificial Intelligence	d)System Architecture
	ajsystem Fremier
c)Control system 15. How many types of structural patterns are	there?
15. How many types of	b) 6
a) 5 c) 7-— flyweight which is not in our	ppt d) 8
c) — 11, weight	
16. GoF consists of a) Grady Booch, Jacobson, Erich Grady Booch, Jacobson, Rumbau	amma, Ralph Johnson
a) Grady Booch, Jacobson, Rumbau b) Grady Booch, Jacobson, Rumbau	gh, Cohen
b) Grady Booch, Jacobson, Rumbau c) Erich Gamma, Richard Helm, Ra	lph Johnson, John Vlissides
e) Erich Gamma, Richard Heini, Ru d) Richard Helm, Rumbaugh, John	Vlissides, Erich Gamma
d) Richard Helm, Rumoaugu, John	
e)	ects into records and save them in a database, and translat
17. A persistence service must translate out	
abjects when retrieving from a database	b) O-R mapping
a) Persistence database	To Tame Weteralization
Manner factory	d) Lazy Materialization

c) Mapper factory

20 is used t	o differentiate kind of reso	urces in UMI	(U) Event		
(A) Tagged Value	(B) Constraint's	(C) Stereo Type			
	The second secon		(M) Assessing		
	Part-B (Ansi	wer Any Five—Four	-		
21. What are the n	CHREST PROPOSED SIGNATURE FLORIST CONTRACTOR	modiation and sem	lence diagrama		
21. What are the main difference between Collaboration and sequence diagram? 22. What is the main goal of model view separation principle?					
23. What are state	activities explain it with ar	example			
24. What are the d	ifferent nodes in activity di	agram explain it wit	h a diagram		
25. What are the D	differences of Component d	nagram andrzepioyn	ent Diagram?		
26. What is the role	e of lazy materialization wi	th virtual proxy?			
27. What are the ke	ey Ideas of using Persistence	e Database?			
		Part-C	(5*12=60 Marks)		
28 .a. Develop into	eraction diagram for the fol	PRINCIPAL OF CONTRACTOR CONTRACTOR			
The online gift	shopping system allows t	he user to order gif	ts for home delivery. To place a shopping cart, and possi	e an code.	
searches to find	l items, to purchase adds ite	ms one at a time to a	shopping cart, and possi	bly searches again for	
more items' wh	en all items have been cho	The system has ar	ovides delivery address. If not option for shoppers to regist	paying with cash the	
shopper also pr	sove their name and address	s information, so the	option for shoppers to regist at they do not have to enter the	er with the gift show	
time that they p	Save their mains and	ob information, bo the	at they do not have to enter the	ns information ever	
time that they p	lace an order.	(OR)	,		
h Develop activity	diagram for the following s	cenario:			
The online exam	nination is web based appli	cation. It can be use	d by institute for conducting	online exams. Admin	
anters the aues	tion and their respective ar	iswers that he want	s in the exam. These questior	ns are displayed	
randomly to the	students registered to the	particular test. The	answers given by the student	s are automatically	
updated by the	system and mark is gene	rated. The marks ar	e viewed by students and det	alled report is	
generated and	accessed by the institute to	evaluate the stude	it's performance.		
20 What are the	hav elements of componen	t and deployment di	agram explain the concepts for	or online feedback	
entry nortal used	by college department to co	ollect feedbacks from	n individual students about th	e various aspects of	
department like f	faculties, courses, department	nt facilities etc.			
			mar can nurchase hooks on	line Through a web	
b. Online Book store	e is an online web applicati	on where the custo	omer can purchase books on	d purchase using his	
browser a custom	ner can, create, sign in to n	oarch for a hook hy	ems into a shopping cart and its title or author; later can	add to the shopping	
1	ltan aradit card	trancaction line II	ser can logili using ins acci	Still actains of	
		v They should Pive	The details of their name,	Philipped Harrings	
	The same also give tood!	hack to a book by Bi	ving latility of a score of the	C: III C : MICHIGAN CONTRACTOR	
will have additiona	at functionalities when com	pared to the commo	on user. He can add, delete a	ind update the book	
details, book categ	ories, member information	and also confirm a	placed order.		
Develop state char	diagram for the above scen	ario:			
30 .a.	rarchy of GOF design patte	orn classification (4)			
i) Give the nie	ctory and abstract factory pa	ttern with example	(8)		
п дахратт и	()	OR)			
b. Explain an	y 4 structural pattern in deta				
			i laine evetam		
	the construction and post tr				
h Differentiat	U) e the functional and non-fi)R) mational requireme	nt and give the above two	requirements for	
satellite navigation syst	tem with use case diagram.	metional requireme			
32, a. Give the di	fference between static and	dynamic diagram. D	evelop any two dynamic		
diagrams for weather m		D)			
b. Summarize t	(O he inception and elaboration	phase of a Vacation	tracking system.		

18. Models are products of

A. Analysis

(A) Active Object

B. Design

19---- object that holds the root of a stack of execution

(B) Passive Object

Suggestion

D Prototype