<u>Chapter – 6</u> <u>Object-Oriented Concepts</u>

1.	In which year the object a) 1960	-oriented program b) 1970			starte d) 198	
2.	From the following which object-oriented program a) C++, Java	ing?				
3.	The way of programing a) structure / procedura c) Markup language		b) obj	categ ect-oriented th a and b	gories.	
4.	In which programing, the operate on data? a) Procedural			_		es which d) Makeup
5.	In which programing, the functionality together? a) Procedural	•				
6.	Which of the programin reusable and expendable a) Procedural	e code?	_	rogrammer t c) Markup		te modular, d) Makeup
7.	Object-Oriented program a) object	4 \ _4	as its fi	undamental c) Row		ng block. d) Table
8.	In the "real" world, which	ch of the following	are the	e entities of	which	the world is
	comprised? a) <u>object</u>	b) class		c) Row		d) Table
9.	In object-oriented termi a) properties					
10	. To identify the objects,	we use the value of	of the a	ittributes. Th	nese va	lue is called as
	a) State	b) class		c) behavior		d) object
11	.There is always a beha a) State	vior associated wit b) class		c) behavior		d) object
12	a. The behavior also knov a) State	vn as b) class		c) behavior		d) <u>method</u>
13	a) What it is called (iden	tity) b) Wł	nat it is	s (its state [v		

14	a) State	be considered as a b) class	c) behavior	ects. d) object			
15	• A is a t a) State		ole objects with similar fe c) behavior	atures. d) object			
16	Aal common behavior		ap of objects with similar	attributes and			
	a) State	b) <u>class</u>	c) behavior	d) object			
17	. A class is a conce	ept used to embody	y all the common feature	s of a particular set of			
	a) State	b) class	c) behavior	d) object			
18	. What presents a classes?	collection of classe	es, constraints and relation	onship among			
		b) Object diagram	c) Oriented diagram	d) Table diagram			
19	. Which model can design of an appli		models of object-oriented	d software to help with			
	a)GML	b) UML	c) HML	d) MUL			
20	. What is a visual a	modeling language b) XML	e defined and maintained c) GML	by the OMG ? d) HML			
21	. What specifies so application?	everal diagrams for	representing different as	spects of a software			
		b) XML	c) GML	d) HML			
22	The purpose of the application.	ne class diagram is	s to model the	view of an			
		b) dynamic	c) Random	d) Linear			
23	23. Which diagrams are the only diagrams which can be directly mapped with object-oriented languages?						
	a) class diagrams c) Oriented diagra	<u>s</u>	b) Object diagram d) Table diagram				
24	In class diagram, how many section		ented with an icon using	a rectangle split into			
	a) 1	b) 2	c) <u>3</u>	d) 4			
25	25. In class diagram, a class is represented with an icon using a rectangle in how						
	many sections? a) name	b) attributes	c) behavior	d) All of these			

 26. The three sections of a class diagram are: 1. Name of the class in the top section 2. Attributes or properties of the class in the middle section 3. Behavior or operations or methods of the class in the bottom section 						
4. All of thes		of the class in the	bottom section			
	n, an attribute is declard >] <attribute name=""> [:<</attribute>		•			
	leclaration, the b) circle () c) as					
	leclarations, the value s b) circle () c) <u>a</u>	_				
	declarations, the visibilit b) protected, public	·				
-	s used for private visibili b) <u>- (Dash)</u>	•	d) ~ (Tilde)			
	s used for protected visit b) - (Dash)	•	d) ~ (Tilde)			
•	s used for public visibilit b) - (Dash)	•	d) ~ (Tilde)			
	s used for package visibi b) - (Dash)		d) ~ (Tilde)			
	nerally refers to a variable b) Attributes		d) behavior			
program.	entify the type of data s b) initial value		at the start of the d) Both a and b			
37. is mandatory and all other items are optional in attribute declaration notation.						
a) class	b) Attribute - Name	c) state	d) behavior			
38. The pictorial rep	oresentation of a class u	sing UML convention	on,			
Class Name						
	Visibility attribute : data type=initial value					
Visibility operation (argument list): return type						

- **39.** In UML notation, an **operation** is declared usingsyntax. Ans. [<visibility>] <method name> (parameter list separated by comma): <return data type>
- 40. Diagram of class 'Person'

Person	
name:string city:string gender:char='M' birthdate:date profession:string	
SetBirthdate(d:int,m:int,y:int):date chagneCity(newCity:string):string display()	

- **41.** Which diagrams are independent of the programming language used for coding an application?
 - a)**UML diagram**
- b) Class Diagram
- c) Object Diagram
- d) None
- **42.** _____are presented using their state during execution of an application.
 - a) **Objects**
- b) class

- c) Attributes
- d) State

- **43.** Objects are
 - a) **Dynamic**
- b) Static

- c) Linear
- d) Random
- **44.** In object-oriented programming, the problem of modification can be solved using
 - a) **Encapsulation** b) Aggregation
- c) Messaging
- d) Polymorphism
- **45.** Diagram of objects p1 and p2 of class 'person'.

p1: person	p2 : person	p1 : person
name=Urmi Patel	name=Leena Soni	name=Krishna
city=Ahmedabad	city=Bikaner	Enginner
gender='F'	gender='F'	city=Ahmedabad
birthdate=15-05-	birthdate=20-11-	gender='F'
1985	1985	birthdate=09-05-1985
profession=Teacher	profession=Teacher	profession=Teacher

- **46.** How many core elements are there in computer program?
 - a) data
- b) element
- c) Attributes
- d) Both a and b
- **47.** The mechanism of providing protection to data and methods of a program is called What?
 - a) **Encapsulation** b) Aggregation
- c) Messaging
- d) Polymorphism

48. What is possible by wrapping declaring them as private?	ng data	a and method	ls into a sing	gle unit class and
a) Encapsulation b) Aggrega	ation	c) Messagi	ng	d) Polymorphism
49. Which members of the class a) Private b) Protect		ot available o c) Public	directly to ou	tside world? d) Package
50. Encapsulation provides a) <u>data</u> b) informa			ty.	d) All of these
51. keeps the data safe outside objects.				J
a) Encapsulation b) Aggrega	ation	c) Messagi	пg	d) Polymorphism
52. What is a process of represe including implementation de	_	the essential	features of t	the objects without
a) Encapsulationc) Data Messaging	b) <u>D</u>	ata abstract	<u>cion</u>	
c) Data Messaging	a) P	olymorpmsm	L	
a) Encapsulation c) Data Messaging	b) D	ata abstract	<u>ion</u>	at it does.
54. Which technique that relies which is not a new concept if a) Encapsulation c) Data Messaging	in prog	gramming?		and implementation
55. A user defined function with	h neces	ssary input o	lata paramet	ers also provides
a) Encapsulation c) Data Messaging	,	ata abstract		
56. provides the ske certain details of how data is a) Encapsulation c) Data Messaging	s stored b) D	-	id maintaine : ion	
57. Which are the examples for a) ADT or structures (Struct c) JavaScript			b) classes i d) Both a a	in C++/ JAVA a nd b
58. The basic difference between Encapsulation protects day abstraction enables to represent are hidden (abstracted).	ta by r	naking then	n inaccessib	le form outside and
59. In, we simply define implementation of operation a) ADT b) UML		~ -	set of operat	

60	. In object-oriente a) <u>Message</u>	d terminology, a ca b) class	all to a me c) Attrib		ed to as ad) State
61	method or operat	_		_	different forms of single
62	name but differer		ns numbe		e method having same parameters) in a single
	a) Method overlo	oading. b) Inherita	nce c) Da	ta Messaging	d) Method Overriding
63	a) function overlo c) Inheritance	es of overloading i ading		tor overloading	
64	The capability of is called what? a) Method overlo c) Data Messagin	oading	b) Inheri		gs in different contexts
65	_	_	,	S	class, it is called what
	a) aggregation	b) composi	tion c)	Encapsulation	a d) Both a or b
66	a) 'has-a'	esentsb) 'a-part-			tween classes. d) Both a or b
67		esentsr b) exclusive			
68	•	-			an exist independently. d) Polymorphism
69		n is represented u 1d b) Filled di	_	•	next to the whole class d) filled circle
70		resentsb) <u>exclusiv</u>		-	
71		strong type of aggi xistence of the own	_	here the lifetin	ne of the part class
	a) aggregation	b) <u>Compos</u>	ition c)	Inheritance	d) Polymorphism
72	. If an object of ag deleted.	gregating class is	,	its part class	object also will get
	a) <u>deleted</u>	b) updated	c)	appended	d) modified

73. Inheritance is generally classes.	referred to as	relation	onship between two
a) <u>is-a-kind-of</u>	b) is-a-part-of	c) has-a	d) like-a
74. refers to the cap characteristics of anoth a) polymorphism	er existing class.	a new class of object c) Aggregation	
a) polymorphism	b) <u>inneritance</u>	c) Aggregation	on a Composition
75. In Inheritance (Object a) sub class	•		
76. In Inheritance (Objecta) super class	•		
77. In a class diagram, inh superclass.	eritance is represe	nted using an	pointing to
a) <u>arrow</u>	b) diamond	c) circle	d) dash
78is the ano a) Generalization	ther name for inhe b) Polymorphism		ationship. d) Composition
79. refers to a relation	nship between two	classes where one	class is a specialized
version of another. a) Generalization	b) Polymorphism	c) Aggregation	d) Composition
80. In Inheritance, commo inheritance.	n attributes and m	ethods are defined	inclass in
a) sub	b) <u>Super</u>	c) sub, super	d) public
81. When a class is derived	d from two or more	classes, it is know	n astype of
inheritances. a) multiple	b) single	c) multi level	d) Both a and b
82. Infeature, classe	es do not inherit fro	om other classes, b	ut are 'composed of'
other classes. a) Aggregation	b) composition	c) polymorphism	d)Inheritance
83. In class diagram, comp	oosition is represen	nted using, which of	f the following
symbols? a) Empty diamond b)	Filled diamond	c) Empty triangle	d) Filled triangle
84. Which of the following a) # (hash)	is not a visibility sy b) <u>* (star)</u>	ymbol? c) ~ (tilde)	d) d (dash)
85. Which of the following but not how it is done?	is a concept that h	ides the complexity	; it says what it does,
a) Abstraction	b) Polymorphism	c) Message	d) Data

 86. Which of the following can be used to create models of object-oriented software the help with design of an application? a) Unified Maseup language b) Unified markup language c) Unified modeling language d) Unified morphing language 					
87. What is the full form of a) Java Varity Machine c) Java Virtual Machin	b) Ja	ava Vertical Ma ava Visual Mac			
88. In Java, what keeps the access by outside object a) Data-abstraction	ts?				
89. In class diagram, a classinto how many sections	-	with an icon u	sing a rectangle is splitted		
a) 2	b) _3	c) 4	d) 6		
90. Aggregation represents a) <u>non-exclusive</u>	which type of rel b) exclusive	-	een two classes? d) None of the above		
	Textual Ex	<u>xercise</u>			
In object-oriented methor a) Data	odology, the focus nctions c) <u>O</u>		f the following entities? d) All of the above		
 2. Which of the following best suits to Java? a) A procedural programing language b) An object-oriented programing language c) A Query language d) All of the above 					
3. Which of the following is a) attribute b) sta	_	=	n each other? d) All of the above		
4. Which of the following is a) class b) obj			s of similar objects? d) All of the above		
5. Which of the following is a) ~ (b) <u>*</u>	s not a visibility sy c) #		d) –		
6. Which of the following isa) data protectionb) To hide implementac) data sharing	tion details of n		ılating the data		
7. Which of the following isa) Data protectionc) Separation of data an		ncapsulation? b) Data shar d) All of thes	9		

- 8. With which of the following options polymorphism can not be achieved?
 - a) **Data hiding** b) operator overloading c) Method Overloading d) All of these
- 9. An aggregation model refers to which of the following relationship?
 - a) 'is-a' relationship
- b) 'a-part-of'
- c) 'is-like'
- d) All of these
- 10. An inheritance model refers to which of the following relationship?
 - a) <u>'is-a' relationship</u>
- b) 'has-s' relationship
- c) 'a-part-of' relationship
- d) All of these
- 11. In class diagram, composition is represented using which of the following symbols?
 - a) empty diamond

- b) Filled diamond
- c) Empty triangle symbol
- d) all of these

Full forms

- 1. UML is **Unified Modeling Language**
- 2. OMG is Object Management Group
- 3. ADT is Abstract Data Types