		Enrollme	nt Number :		
1	Or. Babasaheb Amb				
-		ination January-201	•		
ırse	: BCA	•	nerical Code: 0065		
oject Code : BCA - 601		Numerical Code: 0582			
ject	•		sign Total Marks : 70		
e	: 30/01/2015	Tim	e : 11.00 to 02.00		
tion A			(30)		
	owing (any three)				
	types of modeling diagram i	in UML. Explain cla	ass diagram with symbols		
and notati					
-	eed for component based de	evelopment approac	h.		
	rinciples of modeling				
-	Object Process Methodology				
<ol><li>Explain c</li></ol>	ollaboration and sequence d	iagram in details			
tion B			(20)		
	owing (any four)	·•			
<del>-</del>	bject oriented conceptualiza	tion			
=	eatures of a domain model.				
-	mportance of modelling	1 4 1			
-	ey features of object oriente		<b>4</b>		
	explain use case diagram fo	or patient appointme	ent		
o. Explain s	tate transition diagram				
tion C					
(A) Choose o	orrect answer.		(10)		
A class in	herits its parent's				
	te and links	(b) Operatio	ns		
(c)Attribu	tes, operations, relationships	s (d) Operatio	ns, relationships, link		
lf you war	nted to organize elements in	to reusable groups v	vith full information hiding y		
=	which one of the following				
(a) Packag	<u> </u>	s and interface	(d) Sub-system or compon		
Which of	the following is not characte	eristic of an object?	-		
(a) identity	y (b) Behavior	(c) Action (d) S	tate		

## Section C

3

**Section B** 

Course

**Subject** 

Section A

**Date** 

**Subject Code** 

## (A) Choose correct answer.

**Answer the following (any three)** 

**Answer the following (any four)** 

1 A class inherits its parent's....

- 2 If you wanted to organize elements into would use which one of the following U
  - (a) Package (b) Class (c) Class Which of the following is not characteri

- 4 Which of the following is not characteristic of an abstract class?
  - (a) At least one abstract method
  - (b) All the methods have implementation
  - (c) Subclass must implement abstract method of super class
  - (d) None of the above
- 5 Polymorphism can be described as
  - (a) Hiding many implementations behind one interface
- (b) inheritance

(c)Aggregation and association

- (d) Generalization
- What phrase best represents a generalization relationship? 6
  - (a) is a part of

- (b) is a kind of
- (c) is a replica of
- (d) i s composed of

7	All update of	All update operations in inheritance are updated					
	(a) Across al	(a) Across all extensions (b) Across only some of extensions					
	(c) Only first	extension	(d) None of the above				
8	interaction d	iagrams are					
	(a) Static	(b) Dynamic	(c) Static or Dynamic (d)	None of the above			
9	CORBA is a	n acronym for					
	(a) Common	Object Request	Broker Architecture				
	(b) Common	(b) Common Object Request Broker Application					
	(c) Compone	ent Object Reque	st Broker Architecture				
	(d) Compone	ent Object Reque	st Broker Application				
10	Which of the	following is an	ingredients of Java Beans				
	(a) Events	(b) Properties	(c) Persistence	(d) All of the above			
_		_					
(I	B) Fill in the b	lanks.		(10)			
1.	i	s a physical or co	onceptual connection between	een objects.			
2.	is a group of links with a common structure and common meanings.						
3.	in an association specifies how many objects participate in a relationship.						
4.	i	is a special form	of association, which mod	lels the "part-whole" or "a-			
	part-of" rela	tionship as an ag	gregate (the whole) and pa	arts.			
5.	·	is the relationship between a class, and it defines a hierarchy of					
	abstraction i	n which subclas	ses inherit from one or mor	re super classes.			
	. UML stands						
7.	. A	_ diagrams are i	nteraction diagrams that er	mphasize the time ordering of			
	messages.						
8.			logically related UML ele				
9.		-		el unit that is developed for			
	specific purp	pose and not for	a specific application.				
	0 1	1.	system are known as				

Dr. Babasaheb Ambedkar Open University					
		Term End Examination Ja	nuary-2015		
Cours	se	: BCA	Numerica	l Code: 0065	
Subje	ct Code	: BCA – 601	Numerica	l Code: 0582	
Subje	ct	: Advanced Multimedia Applica	ation <b>Total Ma</b> ı	rks : 70	
Date		: 30/01/2015	Time	: 11.00 to 02.00	
Section	on A			(30)	
		ing (any three)			
1.	What is MN	MS? Explain its components.			
2.	Discuss the	features of integrated design softw	are.		
3.	Explain diff	ferent types of multimedia authorin	g tools.		
4.	Explain test	ting of multimedia application.			
5.	List and exp	plain the hardware and software con	mponents of a m	ultimedia system.	
Section	on B			(20)	
		ing (any four)			
	Principles o				
	FireWire an				
	MIDI audio				
	Quick Time				
5.	Working of developmen	text editor, audio specialist and cont.	mputer programi	ner in multimedia	
6.	Media sync	hronisation and compression schen	nes.		
Sectio	on C				
		rrect answer.		(20)	
1	a) Joint Pho		) Joint Picture Ex	xperts Group	
2		pertext is usually non-linear. [True	,		
3	In multimed	ia, for body text font is preferred w		ne at the top and bottom of	
		nd guide eye across the page.	0_ L	Jana of these	
1	a) Sans serif	,	,	None of these.	
4 5	is	of the vector graphic is higher than an animation technique where one			
		different image.	Mombina	d) None of these	
6	a) Path-base	· · · · · · · · · · · · · · · · · · ·	Morphing	d) None of these	
6		the color palette depends on the im-	age on Depth. [1	rue/raisej	
7		for Interface Codb) Nativerly Infor	motion Cand		
	a) Network	Interface Cad b) Network Infor	mation Card		

c) Network installation Card d) None of these

8

The process of converting analog sounds into numbers is called\_\_\_\_\_\_.

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9	In multimedia, composition describes actions to be performed on media elements				
	& how media elements react to events.				
	a) Spatial b) TemPoral c) Procedural d) Semantic				
10	Simultaneous playback of audio and video material is an example of media				
	synchronization. [True/False]				
11	AIFF is the waveform format. [Macintosh/Windows]				
12	is the process of intelligently mapping out a cohesive strategy for the entire				
	multimedia project, including content, technical execution and marketing.				
	a) Production b) Reproduction c) Conceptualization d) Preproduction				
13	Throwing a ball which hits another object and causes the second object to move is an				
	example of animation.				
	a) Representation b) Stochastic c) Procedural d) All of the above				
14	The series of frames in between the key frames are drawn in a process called				
	a) Tweeting b) Morphing c) Key framing d) None of these				
15	is the electronic text format where, content is interconnected using				
	hyperlinks.				
16	In based authoring tool. the elements are or organized as pages of a book or a				
	stack of cards.				
17	are real images that can be captured from devices such as camera or scanner.				
	a) Vector graphics b) Draw-type graphics c) Bitmap images d) Both a & b				
18	In animation the graphic artist describes the path or every movement of every				
	object.				
19	The is the term member who is responsible for integration all the				
	multimedia building block by using an authoring programme.				
	a) Computer Graphic artist b) Computer Programmer				
	c) Content Specialist d) Multimedia architect				
	c) Content Specialist a) Multimedia arcintect				

Enrollment Number :	
O II!!4	

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	Term End Examination January-20	15			
Cours	e : BCA Nu	<b>Numerical Code: 0065</b>			
Subject Code : BCA - 601 Num		merical Code: 0582			
Subjec	ct : Computer Graphics To	tal Marks : 70			
Date	: 30/01/2015 <b>Tir</b>	ne	: 11.0	0 to 02.00	
Section	n A			(30)	
	er the following (any three)				
	Explain the Process of Universal Design in detail				
	What Computer Graphics? Explain in detail.	1.1	CDT		
	Explain different techniques for Producing colour displa	ays with a	CRT.		
	Explain different types of Animation Systems.				
5.	Discuss Transformation in detail.				
Section	n B			(20)	
	er the following (any four)				
	Give Examples of Creative Thinking.				
	Explain Types of Interaction in detail.				
	Give difference between interactive and Non interactive	compute	r graphi	cs.	
	List applications of Computer Graphics and explain.				
	Write short notes on Flat-Panel Displays.				
0.	Discuss different Creative Methods.				
Section	n C				
$(\mathbf{A})$	) Choose correct answer.			<b>(10)</b>	
1	The major components of CRT are?				
	a) Electronic Gun b) Phosphorous Coated Sc	ereen			
	c) Control Electrodes d) Deflection Yoke		e) All	of the above	
2	Each screen point is referred to as				
	a) Resolution b) Pixel c) Persistence	d) Do	t Pitch		
3	On a color monitor, the refresh buffer is also called				
	a) Frame buffer b) Pixmap c) Bitmap d) I	Display fil	e		
4	Pick out the odd one out	1	1) I G:	5	
_	a) LED b) Plasma Panel c) Gas Discharge t	ube	d) LC	D	
5	Shadow mask method is usually used in	aaan diam	lov	4) DUCT	
( <b>P</b> )	a) LCD b) Raster Scan display c) Random ) Give Answer in One/Two Sentence.	scan disp	lay	d) DVST (10)	
				, ,	
	Define Creativity.			(2)	
	What is Practical Ability?			(1)	
	Give full form: UDI. LED, LCD, DVST		l4	(2)	
4.	Interactive Computer Graphics involves a two-way com and user. (True, False)	mumcati(	JII DELW	een computer (1)	
5.	can be used to grasp a "virtual" Object.			(1)	
	The Set Device Origin () method moves the origin to a	new noin	t on the		
0.	This is called	non poin		(1)	
				` /	

(2)

7. Which two techniques are used for producing colour displays with a CRT?