Seat		
No.		

T.E. (C.S.E.) (Part - I) (Pre-revised) (Old) Examination, December - 2015

				NEI WORK I	ECHN	OLOGI
				Sub. Cod	le : 4560	05
				day, 12 - 12 - 2015		Total Marks: 50
				05.00 p.m.		
Inst	ructio	ns:		All questions are comp		1
			2)	Figures to the right in	dicate mai	rks.
1)		AMPS, tems.	_	bits SID n	umbers a	re uniquely assigned to cellular [1]
	A)	16			B)	24
	C)	6			D)	15
2)	The	frequ	ency	reuse number of D-	AMPS is	. [1]
	A)	8			B)	7
	C)	6			D)	18
3)	CD	МА се	llula	r systems use a digital	modulati	on technique known as[1]
	A)	Amp	lituo	le Shift Keying	B)	Phase Shift Keying
	C)	Freq	uenc	y Shift Keying	D)	Spread Spectrum
4)			- 1500	al Communications (PDC) sys	stems supplied by motorola were [1]
	A)	Japan	1		B)	Europe
	C)	Unite	d S	ates	D)	China
5)			wa	s originally designed	to provid	le mobile packet data services as
35	an c	verlay		tem for AMPS cellula		
	A)	HSC	D		B)	GPRS
	C)	CDP	D		D)	EDGE

			, ,	-	S - 2536
6)	Cel	ls are grouped in to	_•	•	[1]
	A)	NSS		B)	Cluster
	C)	OSS		D)	BSS
7)	The	system allows a	large e	noug	gh increase in capacity. [1]
	A)	Network		B)	Cluster
	C)	Cellular		D)	Hierarchical
8)		ues of Reuse Number can on ression where i and j are inte		on n	umbers calculated from[1]
	A)	i2 + ij + j2			
	B)	i3 + 2ij + j3			
	C)	i2 + 2ij + j2			
	D)	i + ij + j			
9)	For	cluster size of 4, the reuse of	listance	is	[1]
	A)	22.913 km		B)	22.32 km
	C)	17.913 km		D)	17.32 km
10)		PS system did not yield usal eedingdB was av			ality radio links unless S/I ratio
	A)	22		B)	18
	C)	17		D)	7
11)	LAI	is broadcasted on	_ chanr	nel.	[1]
	A)	PCH		B)	ВССН
	C)	SCH		D)	RACH
(2)		nmunication between a renetwork.	mote I	ILR	and MSC/VLR occurs over [1]
	A)	SS7		B)	Backhaul
	C)	ATM		D)	Optical

13)		BS will forward the updated inform he portion of the wireless network.		to the database located
		HLR		VLR
	C)	EIR	D)	
14)	The	response will start the proce FN and/or PDN will be established w		
	A)	SDCCH		
	B)	Radio request		
	C)	Paging		
	D)	СВСН		62
15)		sets a discontinuous tra lisallow this mode of operation.	nsmi	ssion (DTX) bit to either permit
	A)	RBS	B)	MS
	C)	BSC	D)	MSC
16)	The	1900-MHz PCS band may be used	l for	technologies. [1]
5	A)	GSM	B)	NA-TDMA
	C)	CDMA	D)	All of these
17)		bit Walsh Codes are used in	IS-9:	5 CDMA System. [1]
	A)	64	B)	48
	C)	128	D)	32
(8)		CDMA is used to provious a cell.	de a r	reference signal for all the SD's [1]
	A)	Synchronization Channel	B)	Pilot Channel
	C)	Paging Channel	D)	Tra c Power Control Channel

19)	The chan	is us	ed to provide dat	a scr	ambling on the forward traffic [2]	
	A)	Long PN code				
	B)	Short PN code				
	C)	Walsh Code			÷	
	D)	Pilot Code				
20)	CDI	PD works by sharin	gspectru	m for	both data and voice services.[1]	
	A)	AMPS				
	B)	GSM				
	C)	UMTS			87	
	D)	GERAN				
21)	The	netv	vork runs in conce	ert wi	th a GSM wireless network.[1	
	A)	CDPD				
	B)	UTRANS				
	C)	GPRS				
	D)	W-CDMA				
22)		a mobile terminat	ed SMS transfer t	he me	essage is always routed from SC [1]	1
	A)	SMS-IWMSC		B)	SMS-GMSC	
	C)	MS		D)	MSC/VLR	
23)		e maximum data rat kbps.	e per timeslot in G	PRS	using GMSK modulation schem [2	e !]
	A)	13.4		B)	15.6	
	C)	21.4		D)	54.4	

24)		e reason to slow acceptance of WL npared to Wired LAN's.	AN's	during late 1990's isas [2]
	A)	Low data rate	B)	Wireless medium
	C)	Quality of service	D)	Noise
25)		e IEEE 802.1 la extension specified over frequency band.	opera	tion at rates up to in the [1]
	A)	11 MBPS	B)	5.5 MBPS
	C)	32 MBPS	D)	54 MBPS
26)	In ' ban	WLAN, which of the following IE d?	EEE e	extension uses 5GHz frequency [2]
	A)	802.11g	B)	802.11b
	C)	802.11a	D)	802.11n
27)	WL	AN radio link signals are protected	from	outside EM interference. [1]
	A)	True	B)	False
28)	The and	provides the logical conr Wired LAN's.	nect p	oint between the Wireless LAN [2]
	A)	Portal	B)	AP
	C)	STA	D)	ESS
		typical WPAN has a coverage are smitting output power of		approximately 10 meters with a [2]
	A)	1 W	B)	10 mw
	C)	1 mw	D)	10 w

30)		Bluetooth packet for of 1/3 FEC encode		nsists	s of bits that undergo a [1]
	A)	18		B)	32
	C)	54		D)	64
31)	In B	Bluetooth,	packet is used to plock value, scan n	provi node,	ide information about the sending , power class and AM_address.[1]
	A)	FHS		B)	NULL
	C)	POLL		D)	ID
32)	con				dings through exterior antennas point to multi point radio link.[1]
	A)	WMAN		B)	WPAN
	C)	WLAN		D)	WSN
33)		IEEE pubscriber stations r			t to standard to support operation peeds. [2]
	A)	802.16a		B)	802.16d
	C)	802.16e		D)	802.16c
34)	The	ATM header consi	sts of informatio	n ab	out the ATM connection. [1]
	A)	True		B)	False
35)					e support for multiple physical frequencies in the microwave & [2]
	A)	millimeter wave		B)	centimeter wave
	C)	kilometer wave		D)	none of the above
	(3)		, -6-		• *

36)	10 t	original 802 o 66 GHz fre ration.	.16 standa quency ra	rds called nge where	d for ope e line of	eration in lico sight is requi	ensed bands red for satis	in the factory
	A)	True						
	B)	False					30	
37)		wireless MAl astructure.	N effectiv	ely serve	s as a _	to ar	n existing n	etwork [1]
	A)	Router			B)	Gateway		
	C)	Bridge			D)	None		
38)	Me	sh Network a	re used to	provide l	NLOS o	peration.	•	[1]
	A)	True						
	B)	False			ia .			
39)	The Bru		ntrol sub f	rame con	sist of n	etwork entry	and config	uration [1]
	A)	Yes						
	B)	No						
40)		EIEEE 802.16 ess technique				hysical layer on.	option is a w	ireless
	A)	True				*		
	B)	False	14					
	7		N (
				00	Θ			

Seat No.

T.E. (Computer Science & Engineering) (Part - III) (Semester - V) Examination, December - 2015 NETWORK TECHNOLOGIES (New) (Online)

Sub. Code: 66297

Day and Date: Thursday 17-12-2015

Total Marks: 50

Time: 03.30 p.m. to 04.30 p.m.

Instructions:

- Candidate can attempt any number of questions out of which maximum of 50 marks questions will be considered and each question contain 1 M.
- The correct answer is to be written in the given OMR sheet by darkening the circle using blue or black ball pen.
- 3) To mark the correct answers follow the instruction given in OMR sheet.
- 4) Rough work should be done on last paper of question paper.
- OMR and question paper should be handed over to supervisor after the exam.
- 1) What is the access point (AP) in wireless LAN?
 - A) Device that allows wireless devices to connect to a wired network
 - B) Wireless devices itself
 - C) Both (A) and (B)
 - D) None of the mentioned
- 2) Which of the following are interface technologies?
 - A) Cognitive radio technology
 - B) MIMO technology
 - C) Ultra wide band pulse transmission
 - D) All above

A) 802.11 B) 802.20 C) 802.16 D) 802.15 4) Broadband microwave system provides. A) Provide variety of services as licensed system B) Provide access as unlicensed system C) A & B D) None 5) Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding C) DSDV routing D) None	3)	The	mobile broadband wireless techno	ology	is defined by standard.
 4) Broadband microwave system provides. A) Provide variety of services as licensed system B) Provide access as unlicensed system C) A & B D) None 5) Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet headwhile routing? A) Source routing B) Flooding 		A)	802.11	B)	802.20
 A) Provide variety of services as licensed system B) Provide access as unlicensed system C) A & B D) None 5) Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet headwhile routing? A) Source routing B) Flooding 		C)	802.16	D)	802.15
B) Provide access as unlicensed system C) A & B D) None 5) Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding	4)	Bro	adband microwave system provide	es.	
C) A & B D) None 5) Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet headwhile routing? A) Source routing B) Flooding		A)	Provide variety of services as lice	nsed s	system
 D) None Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding 		B)	Provide access as unlicensed syste	em	
 Which of the following is considered a broadband communication channe A) Fiber optics cable B) Coaxial cable C) Microwave circuits D) All of above Which type of routing will include the entire route in the packet headwhile routing? A) Source routing B) Flooding 		C)	A & B		
A) Fiber optics cable C) Microwave circuits D) All of above 6) Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding		D)	None		
C) Microwave circuits D) All of above Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding	5)	Wh	ich of the following is considered a	ı broa	dband communication channel?
 Which type of routing will include the entire route in the packet head while routing? A) Source routing B) Flooding 		A)	Fiber optics cable	B)	Coaxial cable
while routing? A) Source routing B) Flooding		C)	Microwave circuits	D)	All of above
	6)			he en	tire route in the packet header
C) DSDV routing D) None		A)	Source routing	B)	Flooding
		C)	DSDV routing	D)	None

1)	The portion of satellite system is also known as.					
	A)	Ground segment	B)	Air segment		
	C)	Space segment	D)	Medium Level segment		
8)	The	wireless cellular networks (in publi		vice sector) uses. Code Division Duplex		
	C)	Time Division Duplex	D)	Any one		
9)	The A) B) C) D)	IMTS stands for. Improved Mobile Telephone Serv Informed Mobile Telephone Serv Improved Mobile Telecom Servic Improved Mobility in Telephone	ice e	ices		
10)	Afte	er upgrading AMPS with digital mo	dulat	ion schemes, it is referred to as.		
	A)	2G	B)	1G		
	C)	0G	D)	5G		

11)	Ther	e are Number of channels	Number of channels in system band 'A				
	A)	333	B)	50			
	C)	83	D)	33			
12)	TAC	CS stands for					
	A)	Total Access Communication Sys	tem				
	B)	Trial Access Communication Syst	em				
	C)	Telephone Access Communication	n Sys	stem			
	D)	Tele Access Communication Systematical Systems (1997)	em				
13)	HSC	CSD stands for.					
	A)	High Speed Circuit Switched Data	a				
	B)	Heavy Speed Circuit Switched Da	ıta				
	C)	High Speed Current Switched Da	ta				
	D)	High Speed Circuit Switched Don	ngle				
14)	The	Maximum radius of piconet is.					
		50 m	B)	55 m			
	C)	40 m	D)	45 m			

15) Wh	ich one of the following is the mul	tiple-	access scheme used in GSM?				
A)	Time division multiple access (T	Time division multiple access (TDMA)					
B)	Frequency division multiple acce	ss (F	DMA)				
C)	Code division multiple access (C	DMA)				
D)	Combination of TDMA and FD	MA					
16) The	efficiency of a wireless system is g	iven	in which of the following units?				
A)	Bits per second						
B)	Bits per second per Hertz	Bits per second per Hertz					
C)	C) Bits per second per Hertz per km ²						
D)	None of the above						
17)	is a digital version of AMPS.						
A)	GSM	B)	D - AMPS				
C)	IS - 95	D)	None of the above				
	is a second - generation cell DSSS.	lular j	phone system based on CDMA				
A)	GSM	B)	D - AMPS				
C)	IS - 95	D)	None of the above				

				5 - 2541
19)	Mic	rowave system take main role to de	liver	y of high speed data.
	A)	Point to multipoint	B)	Multipoint to point
	C)	A & B	D)	Point to point
20)	Whi	ch of the following is considered a	broad	dband communication channel?
	A)	Fiber optics cable	B)	Coaxial cable
	C)	Microwave circuits	D)	All of above
21)	The	type of access used in GSM techno	ology	is.
	A)	FDMA/TDMA	B)	CDMA
	C)	OFDMA	D)	None of the above
22)	The	coverage & capacity of CDMA syst	tem is	s more than that of GSM system.
	A)	True	B)	False
	C)	Equal	D)	None of the above
23)	The	type of Access technology which	can e	nhance the battery life is.
	A)	CDMA	B)	TDMA
	C)	OFDMA	D)	None of the above

T-36		e remote and sparsely pe	opanica inc				
	A)	Microcell		B)	Macro cell		
	C)	Pico cell		D)	None of the above		
25)					n, Multiplexing and modulation are to be carried out by.		
	A)	BTS		B)	BSC		
	C)	MSC		D)	MS		
26)	Оре	eration happens when th	ne mobile m	oves	from one cell to another.		
	A)	call setup	N.	B)	handoff		
	C)	handover		D)	all		
27)	was designed to provide mobile packet data services as an overlay system for the AMPS.						
	A)	HSCSD		B)	CDMA		
	C)	GPRS		D)	CDPD		
28)	An	all IP architecture and c	onnectivity	for ar	nyone, anywhere is provided by		
	A)	2.5G		B)	3G		
		4G					

29)	The	2.5G cellular system provides serv	ices	like:
	A)	CDPD	B)	HSCSD
	C)	GPRS	D)	Both A & B
30)	The	Total No. of Channels in the AMI	PS W	ere.
	A)	333	B)	433
	C)	416	C)	383
31)	The	System deployed in 3G is:		
	A)	CDMA	B)	GSM
	C)	TDMA	D)	UMTS
32)	The	System deployed in 2G is:		
	A)	UMTS	B)	CDMA2000
	C)	CDMA	D)	None of the above
33)	Sma	art antenna is an technique	: .	
	A)	Mobility management	B)	Capacity expansion
	C)	both	D)	RR management

34)	n/w.	uniquely identifies a mobi	le tel	ephone subscription in PSTN
		MSISDN	B)	IMEI
		LAI	D)	MSRN
35)	2	receives a signaling message as	"initi:	al address message" from PSTN.
	A)	MSC	B)	BSC
	C)	BS	D)	GMSC
36)	In C	GSM system which no is used duri	ng ca	Il setup operation?
	A)	IMSI	B)	MSRN
	C)	TMSI	D)	MSISDN
37)	The	e Bluetooth specifications are prov	ided	by.
	A)	802. 15x	B)	802.11
	C)	802.16	D)	602.3
38)	The	e master-slave configuration is pro	vided	by.
	A)	802.11x	B)	802.15x
	C)	802.16x	D)	802.2

39)	The	point to point link between picone	t mas	ter and a single slave is.
	A)	ACL link	B)	SCO link
	C)	Both A & B	D)	None
40)	АН	not provides?		
	A)	Authentication	B)	Integrity
	C)	Replay Protection	D)	Confidentiality
			,	
41)	ESP	provides?		
	A)	Authentication and Integrity	B)	Replay Protection
	C)	Confidentiality	D)	All of the Above
42)	Acti	ive attack involves?		
	A)	Modification of data	B)	Listening of data
	C)	Both A and B	D)	None
43)	Whi	ich of the following is Active Attac	ck?	
	A)	Masquerade	B)	Replay
	C)	Modification of message	D)	All of Above

44)	In_	attack one entity pretends to	be d	ifferent entity?
	A)	Replay	B)	Denial of service
	C)	Masquerade	D)	None
45)	Inte	rruption of service attack involves?		
	A)	Destroying the resources of system	n	
	B)	Making Available of Resources		
	C)	Both A and B		
	D)	None		
46)	WE	P is stronger against which attack?		
	A)	Brute force	B)	Modification
	C)	Replay	D)	None
47)	7 CL 000 V TO	ortant Issues to be considered while work?	Desig	gning MAC protocols for Sensor
	A)	Energy	B)	Latency
	C)	Both Energy and Latency	D)	None
48)	MA	C unit works with to access	s the	shared air interface?
	A)	Transmitter	B)	Receiver
	C)	Transceiver	D)	None

- 49) Sensor nodes are deployed in?
 - A) Physical Environment
 - B) Logical Environment
 - C) Both Physical and Logical Environment
 - D) None
- 50) SPOT means?
 - A) Small Programmable Object Technology
 - B) Smart Programmable Object Technology
 - C) Small Programmable Object Technique
 - D) None

XXXX

Seat		Î
No.		

T.E. (Computer Science & Engineering) (Semester - V) Examination, December - 2015 COMPUTER GRAPHICS (Revised) (Online)

			Sub	Code: 662	93	
			esday 08 - 12 - 20 to 05.30 p.m.	15	Total Marks : 5	50
	tructions			tempt any numb	oer of question out of which maximu	m
		2)	Figures to the rig			
		3)	The correct answ darkening the ap pen.	ver is to be writte opropriate circle	en in the given OMR answer sheet b c using black or blue ink or boll poin)y nt
		4)		rect answers fol	llows the instruction given on OM	R
		5)	Rough work she question paper.	ould be done of	n the sheet provided at the end of	of
		6)	OMR answer sh supervisor after	eet and question	on paper should be handed over t	to
		7)	Only non-progra	mmable calcula	tors are allowed.	
1)			nation that chang ath is called.	es the coordin	ate position of an object along	a 1
	A) 7	Franslati	ion	B)	Scaling	
	C) I	Rotation	ı	D)	Reflection	
2)	The e	quivale	ent representations coordinate syst	on of a two d	limensional point (x,y) in th	e 1
	A) (x,y,1)		B)	(\$10.55#1.550.50)	
	C) (x/w,y/w	7)	D)	(x,y,x-y)	
		-				

C		-	_	1	0
	_	Z	Э	1	"

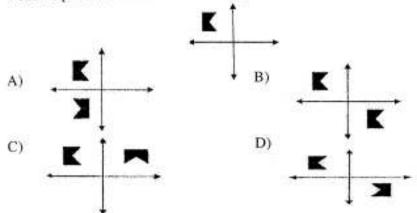
						S - 2519	
3)	In 2	D invers	e of ge	nera	al rot	tation matrix is its 1	
	A)	Inverse		*		B) Transpose	
	C)	Symme	etric Ma	trix		D) A,B,C.	
4)						rix transformation for rotation with an angle θ positive direction is.	
	A)	$\cos\theta$	$\sin \theta$	0	0		
		$-\sin\theta$	$\cos\theta$	0	0		
		0	0	1	0		
		0	0	0	1		
	B)	$\cos\theta$	$\sin\theta$	0	0		
	Title .	$\cos\theta$	$-\sin\theta$	0	0	***	
		o	0	1	0		
		0	0	0	1	9	
	C)	$\cos \theta$	$\sin \theta$	0	0		
	-	$\sin \theta$	$\cos\theta$	0	0		
		O	0	1	0		
		0	0	0	1		
	D)	1 00	osθ s	in θ	0		
			inθ c	$os\theta$	0		
		0	0	1	0		
		0	0	0	1		
5)						constructed by manipulating the object, using	
					ı, su	ch that least three adjacent faces are shown.	
	A)	Ortho	graphic			B) Parallel	

C) Axonometric

D) None of these

6)		D two pure reflections about line p	assin	g through the origin are applied 1
	A)	Double reflection about origin	B)	Pure reflection about origin
	C)	Pure rotation about origin	D)	Pure rotation along X axis
7)		combined transformation order of ause matrix multiplication is		rix multiplication is important
• •	A)	Commutative	B)	Noncommutative
8.07.	C)	Both A & B	D)	None of these
8)	Affi	ine geometry is mainly based in		_concept. 1
	A)	Transformation	B)	Projection
	C)	Parallelism	D)	Both A & B
9)		en rotated through 90 Degree about image of the point (3, 1) is	t the	origin in a clockwise direction,
	A)	(-1,3)	B)	(3,-1)
	C)	(1,-3)	D)	(-3,1)
10)	Hov	v many matrices are required to rot	ate ar	n object about a point (x, y) 2
	A)	2	B)	3
	C)	4	D)	5

11) Which represents a translation of the figure?



12) Cavalier projection is

1

- A) An orthographic projection
- B) A perspective projection
- C) An oblique projection
- D) A multiview projection
- 13) Frame buffer is used to store

1

A) Only pixels

B) Only intensities of pixels

C) Image definition

- D) Coordinate values of image
- Bresenham's circle generating algorithm will take reflections of ______.
 - A) Two octets

B) One octet

C) Three octets

- D) None of these
- 15) In bresenham's circle generating algorithms, if (x,y) is the current pixel position then the x-value of the next pixel position is _______.
 - A) x

B) x-1

C) x+1

D) x+2

D) None of these

C) linked list

21)	The	slope of the line joining the points	(0,0) and (5,5) is	2		
	A)	0	B)	1			
	C)	2	D)	3			
22)		aliasing s a technique uselution.	_lev	vels to obtain increased vis	ual 1		
	A)	single intensity	B)	Multiple intensity			
	C)	color intensity	D)	None of these			
23)	In order to prevent aliasing, a signal must be sampled at rate twice the the signal.						
	A)	Dark frequency	B)	Bright frequency			
	C)	Lower frequency	D)	Higher frequency			
24)	In I	Bresenham's algorithm error term is	initia	alized to?	2		
	A)	0	B)	1			
	C)	-1/2	D)	None of above			
25)	The	The algorithm used for filling the interior of a polygon is called.					
	A)	Flood fill algorithm	B)	Boundary fill algorithm			
	C)	Scan line polygon fill algorithm	D)	None of these			
		10.000					

26)	and	If X _L , X _R , Y _B , Y _T represent the four parameters of x-left, x-right, y-bottom and y-top of the clipping window and (x,y) is a point inside the window then					
	A)	$X_L \le x \le X_R$ and $Y_R \le y \le Y_T$					
	B)	$\boldsymbol{X}_{\!\scriptscriptstyle L} \leq \boldsymbol{x} \leq \boldsymbol{X}_{\!\scriptscriptstyle R}$ and $\boldsymbol{Y}_{\!\scriptscriptstyle R} \geq \boldsymbol{y} \geq \boldsymbol{Y}_{\!\scriptscriptstyle T}$					
	C)	$X_L \ge x \ge X_R$ and $Y_R \le y \le Y_T$					
	D)	$X_L \ge x \ge X_R$ and $Y_B \ge y \ge Y_T$					
27)	If to Sut	wo bits are zeros and two bits are herland line clipping algorithm	ones in	a code of a subregion in Cohen- region is 1			
	A)	Corner region	B)	Middle region			
	C)	Central region	D)	None of these			
28)	poir	In the Cohen-Sutherland line clipping algorithm, if the codes of the two points P and Q are 0101 and 0001 then the line segment joining the points P and Q will bethe clipping window.					
	A)	Totally inside	B)	Partially outside			
	C)	Totally outside	D)	None of these			
29)	A re	egular clipping window is		i			
	A)	square	B)	circular			
	C)	rectangular	D)	hexagonal			

30)	The the	key to the cohen sutherland end points isthe	d algorithm window.	is always knowing that one of			
	A)	above	B)	inside			
	C)	outside	D)	below			
31)		is an area of display de	evice on whi	ich the data are presented.			
	A)	viewarea	B)	viewport			
	C)	viewcourt	D)	None of the above			
32)	Col	number of bits are used for representing each subregion of the Cohen-Sutherland line clipping algorithm.					
	A)	1	B)	2			
	C)	3	D)	4			
33)		The Bezier-B-Spline approximation provides for thecontrol of curve shape. 1					
	A)	Local	B)	Global			
	C)	Not	D)	None of them			
34)		Spline representations in which the degree of a spline polynomial can be independently of the number of control points.					
	A)	B-Spline	B)	Beizer Spline			
	(C)	Hermite Spline	D)	Cardinal Spline			

35)	Ζt	ouffer is simply extension of	{	ouffer.	1
	A)	wired	B)	frame	
	C)	both A & B	D)	None of these	
36)		jacent areas (pixels) in both the x mown as.	and y d	irections tend to be similar. Th	is 1
	A)	Area coherence	B)	Area utility	
	C)	Both A & B	D)	None of these	
37)		B-Spline curve, if control point the number of blending function			d 1
	A)	n	B)	n+1	
	C)	n-1	D)	n+2	
38)	NU	RBS stands for			1
	A)	Non Uniform Rational B-spline	es		
	B)	Non Uniform Rational Bezier S	Surfaces		
	C)	Normal Unit Vector Representa	ation of	B-Splines	
	D)	None of these			
39)	Para	abolic Blended curve is given by			2
	A)	C(t)=(1+t)p(r)+tq(s)	B)	C(t)=(1-t)p(r)-tq(s)	
	C)	C(t)=(1+t)p(r)-tq(s)	D)	C(t)=(1-t)p(r)+tq(s)	

40)	If B ΣB	$_{i,n}$ (x) (1<=i<=n) denotes the Bern $_{n}$ (x)=	stien	polynomials of degree n then 2				
	A)	0	B)	1				
	C)	2	D)	3				
41)	A_ inte	AAnimation consists of an automatic generation of the intermediate frames based on a set of keyframes, supplied by an animator.1						
	A)	Key frame animation	B)	Procedural animation				
	C)	Mesh warping	D)	Feature-based Image warping				
42)	Α 7	A Typical animation sequence is obtained using 1						
	A)	A) Object definition, Storyline, key frame specification and twining						
	B)	B) Storyline, object definition, key frame specification and twining						
	C)	 Object definition, Storyline, twining and key frame specification 						
	D)	Storyline, twining, object definition	on ar	nd key frame specification				
43)								
	the	shape of features in an image by si	mitin					
	A)	Warping, Cross-dissolving	B)	Cross-dissolving warping				
	C)	Mapping, warping	D)	Cross-dissolving, mapping				

			101	S - 2519
44)	the	warping method gives ar process.	animat	or a high level of control over 1
	A)	Mesh	B)	TPS-based image
	C)	Feature-based image	D)	None of these
45)	In 3	D morping, intermediate 3D mo	odels are	e called 1
	A)	Morphs	B)	Frames
	C)	Objects	D)	Pseudo frames
46)	A fa	ast and simple method for render	ring an c	object with polygon surface is.1
	A)	Constant-intensity shading	B)	Flat shading
	C)	Both A & B	D)	None of these
47)	Ray	r-tracing is an extension of		1
	A)	Ray calling	B)	Ray casting
	C)	Ray sampling	D)	None of these
48)	The	basic ray tracing algorithm pro-	vides.	1
	A)	Transparency		
	B)	Visible-surface detection		
	C)	Shadow effect, multiple light s	source il	lumination
	D)	All of these		

S	_	2	5	1	9
		_	•	•	

		3 -	HU11
49)	Two	basic technique for anti aliasing in ray tracing algorithm are	1
	A)	Pixel sampling and super sampling	
	B)	Adaptive sampling and super sampling	
	C)	Pixel sampling and super sampling	
	D)	None of these	
50)	Cor	nstant-Intensity shading is also called as	1
	A)	Gouraud shading	
	B)	Normal vector interpolation shading	
	C)	Flat shading	
	D)	Phong shading	

XXXX

Seat		
No.		

T.E. (Computer Science and Engg.) (Semester - VI) Examination, December - 2015

OBJECT ORIENTED MODELING AND DESIGN

Sub. Code: 45611 Day and Date : Friday, 04 - 12 - 2015 Total Marks: 50 Time: 04.00 p.m. to 05.00 p.m. Instructions: 1) All the questions carry I mark each. 2) Attempt any 50 questions out of 60, is the sharing of attributes and operations among classes based on a hierarchical relationship. a) Inheritance b) Abstraction Polymorphism d) None of these The dynamic model represents the temporal, behavioural and _____ aspects of a system. Functional b) Dynamic Control . d) None of these 3. The object model is represented graphically with _____ containing object classes. Class diagram b) Object diagram State diagram None of these 4. A ______ is a schema, pattern, or template for describing many possible instances of data. a) Object diagram b) Data flow diagram Instance diagram d) Class diagram 5. describes how a particular set of objects relate to each other. Instance diagram b) Object diagram c) Class diagram d) None of these

6.		is a function or trans	sformation	that may be applied to or by		
	obj	ects in a class.		ii iii iii		
	a)	Attribute	b)	Operation		
	c)	Method	d)	None of these		
7.		e OMT symbol for general te h lines connecting to related o		n-ary associations is a		
	a)	Diamond	b)	Box		
	2.333	Solid ball	d)	Triangle		
8.	The	e OMT notation for a link attri	bute is	attached to the association		
		a loop.				
	a)	Diamond	b)	Box		
	c)	Solid ball	d)	Triangle		
9.	A	qualifier is drawn as a	on the	end of the association line near		
	the	class it qualifies.				
	a)	Diamond	b)	Solid ball		
	c)	Small box	d)	Box		
10.	Α.	is a logical constru	ict for gro	uping classes, associations and		
	ger	eralizations.				
	a)	Module	b)	Model		
	c)	Sheet	d)	None of these		
11.	Α.	on a transition is sl	nown as a	Boolean expression in brackets		
	foll	owing the event name.				
	a)	Attribute	b)	Link		
	c)	Guard condition	d)	None of these		
12.	A s	super-state is drawn as a	enclo	sing all of its sub-states.		
	a)	Large rounded box	b)	Small rounded box		
	c)	Small box	d)	Rounded box		
13.		If a state can accept events from more than one object, the order in which				
	COL	current events are received m	ay affect th	e final state; this is called		
	a)	Guard condition	b)	Race condition		
	c)	Boolean condition	d)	None of these		

14.	consist of multiple data flow diagrams which specify the meaning						
	of a	operations and constraints	8.	12. S. S.			
	3)	Object model	b)	Dynamic model			
	c)	Functional model	d)	None of these			
15,	-	is a psssive object	within a data f	low diagram that stores data for			
	late	er access.					
	a)	Actor	b)	Process			
	c)	Data store	d)	None of these			
16.		지역에 많이 마니지 병생님이 아이를 마이지 않는 ^^ () 아이지 않는 것 같아 있다면 하나요?		s the target of another operation			
		ndicated by a					
		Hollow triangle		Solid triangle			
	c)	Diamond	d)	Solid ball			
17.		A control flow is shown by a from a process producing a					
		olean value to the proces	s being control	led.			
	a)	Parallel line	b)	Dotted line			
	c)	Solid line	d)	None of these			
18.		A is an operation that has no side effects on the externally visible					
		te of any object.	2071				
	a)	Action	b)				
	c)	Query	d)	None of these			
19.	An	An event is a transmission of information from one object to					
	and	other.					
	200	Two-way	12.5	One-way			
	c)	One to many	d)	None of these			
20.	The sequence of events and the objects exchanging events can both be						
	sho	own in an augmented sce	nario called	diagram.			
	a)	Event diagram	b)	State diagram			
	c)	Object diagram	d)	Event trace diagram			
21.		e algorithm designer mus plementing	t choose algori	ithms that minimize the cost of			
	a)	Data structures	b)	Subsystem			
	c)	Operations	d)	Methods			
	CTRO			D. D. S.			

22.	is concerned with devising a precise, concise, understandable and						
	COL	rect model of the real-world.					
	a)	Implementation	b)	Design			
	c)	Analysis	d)	None of these			
23.	-	is the high-level strategy for	or solv	ving the problem and building a			
		ution.					
	a)	System Architecture	b)	System design			
	c)	Object design	d)	None of these			
24.	In :	a procedure-driven sequential syst	em, ce	ontrolresides within the			
	a)	Dispatcher	b)	Independent objects			
	c)	Program code	d)	None of these			
25.	-	is the overall organization	of the	system into components called			
	sub	systems.					
	a)	System Architecture	b)	System design			
	c)	Object design	d)	None of these			
26.		The decomposition of systems into may be organized as a sequence of horizontal layers or vertical partitions.					
		Modules		Groups			
	117	Subsystems	2/2/1	Sheet			
27.		The object design phase adds internal objects for implementation and optimizes					
	a)	Classes and associations					
	b)	Data structures and algorithms					
	c)	Interface and algorithms					
	d)	Methods					
28.		During, the designer must rearrange the execution order for efficiency.					
	a)	Designing algorithms	b)	Design optimization			
	c)	Design association	d)	Physical packaging			
29.	-	is the making of contex	t-dep	endent decisions.			
	a)	Policy	b)	Analysis			
	c)	Implementation	d)	None of these			

30.	A qualified association with multiplicity "one" can be implemented as a							
	a)	Concurrent object	b)	Active object				
	e)	Dictionary object	d)					
31.		is a named proper	ty of a class t	that describes a range of values				
		t instances of the property		and a supplied to the supplied				
	a)	Operation	2000	Attribute				
	c)	Responsibility	d)	None of these				
32.		is the implementation	of a service	that can be requested from any				
		ect of the Class to affect be		,				
	a)	Generalization	b)	Inheritance				
	c)	Attribute	d)	Operation				
33.	Gra	is ren	dered as a rec	tangle with a dog-eared corner,				
		ether with a textual or grap						
	a)	Note	b)	Node				
	c)	Package	d)	Message				
34.	Wh	Which are the extention mechanism available in UML.						
	a)	a) Inheritance & Association						
	b)	Aggregation & Associati	on					
	c)	Stereotype, Tagged value	s, Constraint	s				
	d)	None of these						
35.	Αı	se-case is used to structure	the	in a model.				
	a)	Structural things	b)	Behavioural things				
	c)	Grouping things	d)	10 PARKERS NEW AND STREET STREET				
36.		phically, a collaboration is ally including only its nam	with dashed lines,					
		Rectangle		Circle				
	c)	Ellipse	1,000	None of these				
37.		is a semantic relation	onship betwee	en two things in which a change				
		one thing may affect the ser						
	a)	Realization	b)	Association				
	c)	Dependency	d)	None of these				

38.		are isomorphic, mea	nine that	S-2	
		nto the other.	mig mat	you can take one and trans	
	a)	Sequence diagram	b)	Collaboration diagram	
	c)	State chart diagram		Both (a) & (b)	
39.	Gra	phically, is rendered	as a tabbe	ed folder, usually including	
	its	name and sometimes, its conte	ents.	mentaling	
	a)	Note	b)	Node	
	c)	Package	d)	Message	
40.	Ope	erations are get listed in		part of class box.	
		First	-130	Second	
	c)	Third	d)	None of these	
41.		relationship between	use cases	s means that the base use	
	explicitly incorporates the behaviour of another use case at a location specified				
		he base.			
	a)	Include	335	Extend	
	c)	Generalization	d)	Association	
42.	is the specification of a communication among objects that				
		veys information with the exp	ectation th	hat activity will ensue.	
	a)		b)	Interaction	
	c)	Message	d)	Actions	
43.		is an interaction diagram	that emph	asizes the structural organiz	
	of the	he objects that send and receive	e message	28.	
	a)	Activity Diagram	b)	Interaction Diagram	
	10	Sequence Diagram	d)	Collaboration Diagram	
	6)	and an artificial	- 20	and the same	
44.					
44.		represents the splitting e concurrent flows of control	of a sing		
44.		represents the splitting	of a sing		
	mor	represents the splitting e concurrent flows of control	of a sing	le flow of control into ty	
	mor a) c)	represents the splitting concurrent flows of control Fork Swim lanes is the vertical dashed	of a sing b) d)	le flow of control into to Join None of these	
	mor a) c)	represents the splitting concurrent flows of control Fork Swim lanes is the vertical dashed ect over a period of time.	of a sing b) d)	le flow of control into tw	
45.	mor a) c) obje	represents the splitting e concurrent flows of control Fork Swim lanes is the vertical dashed ect over a period of time.	of a sing b) d)	le flow of control into tw Join None of these	

46.		is an event that represents	s a chan	ge in state or the satisfaction of			
	SOF	ne condition.					
	a)	Call event	b)	Time event			
	c)	Change event	d)	Signal event			
47.	As	tate that has nested states is calle	d a _	state.			
		Composite		Target			
	c)	History		Deferred			
48.		is a heavy weight flow t	hat can	execute concurrently with other			
	pro	cesses.					
	a)	Thread	b)	Data flow			
	c)	Object flow	d)	Process			
49.		is the placement of a cor	nponen	t on a node.			
	a)	Process	b)	Time & space			
	c)	Location	d)	Dynamic libraries			
50.		represents a named ob	ject tha	t is dispatched asynchronously			
	by	one object and then received by	another	object.			
	a)	Event	b)	Time event			
	c)	Signal	d)	None of these			
51.	_	is a physical and replace	eable p	part of system that conforms to			
	and	provides the realization of a set	of inter	faces.			
	a)	Interface	b)	Component			
	c)	File	d)	None of these			
52.	An interface that a component realizes is called, meaning interface that the component provides as a service to other components.						
	a)	Interface	b)	Import interface			
	c)	Export interface	d)	None of these			
53.		form an executable system		components are necessary and			
	a)	Deployment	(b)	Work			
	500.5	Execution	d)	None of these			

54.	-	components are	created as a conse	equence of an executing system
		Deployment	b)	Work
	c)	Execution	d)	None of these
55.	_	stereotype spe	cifies a compone	ent that may be executed on a
	no	de.		
	a)	Document	b)	Table
	c)	Library	d)	Executable
56.	Sta	tic or dynamic object lil	brary is specified	by stereotype.
	a)	Document	b)	
	c)	Library	d)	Executable
57.		is a society of	classes, interface	s and other elements that work
	log	ether to provide some co all its parts:	o-operative behav	iour that's bigger than the sum
		Interface	b)	Collaboration
	c)	Behaviour	11,00,00	Structure
58.	The	e dynamic flow of element t of collaborations.	ents i.e. how they	interact is specified by
		Structural	b)	Behavioural
	c)	Both (a) & (b)	505	None of these
59.		is a common so	olution to a probl	cm in a given context
	a)	Pattern		Mechanism
	c)	Framework	4037.000	None of these
60.	9	is an architectur	ral pattern that p	rovides an extensible template
	for	applications within a do	main.	rorraes an extensione tempiate
		Mechanism		Pattern
	c)	Framework	d)	None of these
			0000	

Seat	
No.	

T.E. (Computer Science & Engineering) (Part - III) (Semester - V) Examination, December - 2015 OBJECT ORIENTED MODELINGAND DESIGN (Revised) (Online)

			Sub. Code: 6629	95
Tin	ne : 03	Date : Saturday 12 - .30 p.m. to 04.30 p.m	ı.	Total Marks: 50
Inst	ructio	2) Figures to	ons are compulsory, the right indicate full r nitable data wherever	
1)		association that car	n be defined in term	ns of other association is called [1]
	A)	Redundant class	B)	Association
	C)	Derived association	n D)	None
2)	Inhe	ritance in object-ori	ented modeling can	be used to. [1]
	A)	Generalize classes	B)	Specialize classes
	C)	Generalize and spe-	cialize classes D)	Create new classes
3)	Con	straints are		[1]
	A)	Architectural relati	onships between ent	ities of an object model
	B)	Structural relations	hips between entitie	s of an object model
	C)	Behavioral relation	ships between entiti	es of an object model
	D)	Functional relation	ships between entiti	es of an object model
4)		(2006년 1월 10일 10일 10일 10일 1일	generalization and_ used interchangeab	all refer to aspects of the
	A)	Specialization	B)	Association
	C)	Aggregation	D)	None of these

5)	Select best suitable option- "What is necessary for objects to group i single class".						
	A)	Common Attributes	B)	Common Operations			
	C)	Common Behavior	D)	Common Semantics			
6)		is a semantic connection	n among o	bject. [1]			
	A)	Link	B)	Message			
	C)	Object Class	D)	Class			
7)	Αn	ninimal set of attributes that un	iquely ident	ifies an object or link is called[1]			
	A)	Primary key	B)	Candidate key			
	C)	Super key	D)	Foreign key			
8)	The	notation "do: A" with a state	e box indica	ate. [1]			
	A)	Activity A	B)	Action A			
	C)	State A	D)	Event A			
9)		is the overall organizat	ion system.	[1]			
	A)	Diagram architecture	B)	Class architecture			
	C)	System architecture	D)	Object architecture			
10)	_	is high level strategy for	solving the p	problem & building solution.[1]			
	A)	Object design	B)	System design			
	C)	Class design	D)	UML design			
11)	Spe	cifying optimization criteria	is step for o	constructing [1]			
	A)	Functional modeling	B)	Dynamic modeling			
	C)	Object modeling	D)	None			

 \mathbf{H}

om input [1]	it value is computed	ow each outpu	is used to show that he	valu
THE SALE	Event flow diagram	B)	Event trace diagram	A)
	Data flow diagram	D)	Class diagram	C)
n by.[2]	d for sequence is sh	without regar	nt between groups of class	Eve
	Event flow diagran	B)	Event trace diagram	A)
	Object diagram	D)	Class diagram	C)
purpose [2]	at share some comm performing arithmeti	ed function th	is a group of relat as I/O processing, Drawi	A_such
	Object	B)	Service	A)
	None	D)	Attribute	C)
	ntify relevant	odel is, to ide	first step in an object Me	The
rom the [1]			lication domain.	app
	Super classes		Abstract classes	appi A)
		В)		1000
	Super classes Sub classes	B) D)	Abstract classes	A) C)
[1]	Super classes Sub classes	B) D)	Abstract classes Object classes	A) C)
[1]	Super classes Sub classes	B) D) nother class is	Abstract classes Object classes ference from one class to a	A) C) A ref
[1]	Super classes Sub classes Multiplicity Responsibility	B) D) nother class is B) D)	Abstract classes Object classes ference from one class to a Association	A) C) A ref A) C)
[1]	Super classes Sub classes Multiplicity Responsibility	B) D) nother class is B) D)	Abstract classes Object classes ference from one class to a Association Operation	A) C) A ref A) C)

				S -	2546
18)	Col	laboration, use case & com	ponents are	things.	[1]
	A)	Structural	B)	Behavioral	
	C)	Grouping	D)	Annotational	
19)	Wh	ich thing is having Structura	l as well as	Behavioral dimension.	[1]
	A)	Interface	B)	Use case	
	C)	Collaboration	D)	Active class	
20)	Wh	at realizes the interface?			[1]
	A)	Actor	B)	Use case	
	C)	States	D)	Components	
21)	Beh	avioral things are the	of UMI	. model.	[1]
	A)	Nouns	B)	Verbs	
	C)	Organizational parts	D)	Explanatory parts	
22)	Stru	octural things are the	_of UML	model.	[1]
	A)	Nouns	B)	Verbs	(67875)
	C)	Organizational parts	D)	Explanatory parts	
23)	Wh	ich is the basic object orient	ed building	block of the UMI_	[1]
	A)	Things	B)		
	C)	Diagram	D)	Rules of UML	
24)	Whi	ich are the first class citizens	in UML mo	odel?	[2]
	A)	Things	B)	Relationship	
	C)	Diagram	D)	Rules of UML	

25)		is a set of object that share emantics.	same :	attributes operation, relationship [2]
	A)	Function	B)	Class
	C)	Structure	D)	Macro
26)		interaction is a that com ong set of objects within a context		
	A)	Class	B)	Stereotype
	C)	Behavior	D)	Service
27)		actor represents a coherent set of_ racting with these use cases.	t	nat users of use cases play when [1]
	A)	Objects	B)	Messages
	C)	Classes	D)	Roles
28)	exp	relationship between use licitly incorporates the behavior of he base.		
	A)	Include	B)	Exclude
	C)	Extend	D)	Uses
29)		diagram has two features or	e is o	bject lifeline and other is scope
	A)	Use case	B)	Activity
	C)	Sequence	D)	Collaboration
30)		may have one incoming to		
	A)	Node	B)	Fork

D) Join

C) Component

31)	A	is a physical and replaceable part of the system that	t conforms to
	and pro	vides the realization of set of interfaces.	[1]

A) Node

B) Component

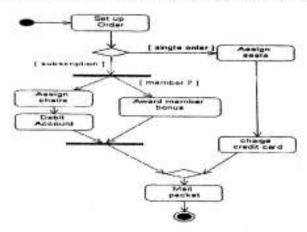
C) Class

- D) Structure
- 32) Two Events that are causally unrelated and do not affect each other are called ______.
 [1]
 - A) Concurrent Events
- B) Sequential Events
- C) Grouped Events
- D) Conditional Events
- 33) When an event causes an action to be performed without causing a state change, it is called _____.
 [2]
 - A) Entry Action

B) Exit Action

C) Internal Action

- D) Automatic Transition
- 34) Refer to the diagram to answer the question. What is the minimum number of threads that can be running during the execution of the activity diagram?[2]



A) 2

B) 3

C) 1

D) 4

				S -	2546
35)	A_	is a common solution t	to a probler	n in a given context.	[1]
	A)	Mechanism	B)	Pattern	
	C)	Framework	D)	None of these	
36)	A_	is a design pattern the	hat applies	to a society of classes.	[1]
	A)	Mechanism	B)	Pattern	01121
	C)	Framework	D)	None of these	
37)	Α_	diagram shows a set	of compo	nents and their relationsh	ips.[1]
	A)	Deployment	B)	Interaction	
	C)	Activity	D)	Component	
38)	Wh	at types of units does compo	nent follow	?	[1]
	A)	Modular unit			
	B)	Replaceable unit			
	C)	Unit with well defined inter	face		
	D)	All of the mentioned			
39)	Con	nponents can be represented	by which o	f the following?	[1]
	A)	Component symbols		Stereotypes	1-1
	C)	Rectangular boxes		A & B	
40)	Wha	at does a component diagram	consists of	7	[1]
		Components, their relationsl			11
	B)	Packages and dependency		0.000000000000000000000000000000000000	
	C)	2.4-1			
	Di	AC			

41)	1000 CT 11	diagram is a diagram to processing nodes and compone		5.40이 B. (100
	A)	Deployment	B)	Interaction
	C)	Activity	D)	Component
42)		is an architectural patter applications within a domain.	n that pr	ovides an exentensible template [2]
	A)	Mechanism	B)	Pattern
	C)	Framework	D)	None of these

XXXX