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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

Branch—Computer Science and Engineering/IT
OBJECT ORIENTED MODELLING AND DESIGN (RT)

more stable and the legislation (Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

- 1. What are links and association? Give an example of a ternary association.
- 2. What is sample object model?
- 3. Discuss the uses of data flow diagrams in object modelling.
- 4. Compare and contrast object dynamic and functional model.
- 5. What is concurrency control problem and mention a method to ensure correctness?
- 6. Write notes on iterating the analysis.
- 7. Define physical packaging.
 - 8. Explain briefly the various representations of an object.
 - 9. What are the various views in UML? Describe.
 - 10. Explain the term "Notations and Models".

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. (a) Discuss in detail about the object oriented modelling concepts with examples. (12 marks)

Or

(b) Discuss the use of generalization in object modelling. How multiple inheritance is handled.

(12 marks)

12. (a) Write short notes on:

(i) Events and states.

(6 marks)

(ii) Major and minor elements of object model.

(6 marks)

Or

Turn over

	(b)	With neat diagram explain about functional models and also diconstraints.		t functi	ons o
		A DECEME EXAMINATION, NOVEMBER 2010		(12 r	narks
13.	(a)	Describe the various architectural frameworks common in system. $ Or $		(12 n	narks)
	(b)	Discuss in detail about analysis in functional modelling.		(12 r	narks)
14.	(a)	Explain in detail about design of association and the ways of docume based design process. How version control is done?			
	(b)	Or Explain in detail about:	Witter.	(12 n	narks)
	(6)	(i) Object design algorithm with example.	1	(6 =	narks)
		(ii) Implementation of control.	mı jülüli esi		narks)
15.	(a)	Discuss the notations and models used in Booch's methodology. Exp	olain the ad		
	(4)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mani one ad	Assessment T	arks)
		Discuss the difference between Booch and Jacobson methodology. Or	(поэ бие өн инхририоз в	(4 n	narks)
	(b)	Explain in detail analysis model and design model with neat diagra	in in inton	(12 n	arks)
			[5 × 12		
		tantions representations of an object.			
		ous views in OldE 7 Dosoriba.	- A		
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es émin	y () (%	Part			
		Each question curries 12 marks.			
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		10.			
	3.8sl z	see of generalization in object modelling, How multiple inheritance	mount the n		
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		an esta	n frods spiri		
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		and minor elements of object model.			

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

Branch-Computer Science and Engineering / I.T.

COMPUTER GRAPHICS (RT)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

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Answer all questions.

Part A Immuno mortum me among pat malign?

Each question carries 4 marks.

- 1. What are Interactive graphics system?
- 2. Distinguish between Raster scan and vector scan display systems.
- 3. How does light-pen locate position on screen?
- 4. What is the use of Windowing?
- 5. Define Resolution and aspect ratio.
- 6. Explain Scaling and clipping.
- 7. Define Surface Rendering.
- 8. What is polygon-rendering method?
- 9. Write the matrix form of the 3D rotation of a point through 30 degree in clock-wise direction about X-axis.
- 10. What are self-squaring Fractals?

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Explain the construction and working of Graphics Display unit.

Or

- 12. How will you classify the display devices used in Computer Graphics?
- 13. Translate a point (12, 7) by 5 in x direction and 5 in y direction; sale by 2 and 1 in x and y direction, and rotate by 30° in clockwise. Find the final co-ordinates.

Or

14. Obtain the reflection of the diamond shaped polygon, whose vertics are A(-1, 0), B (0, -2), C (1, 0) and D(0, 2) about the Mey Volve EXAMINATIONS NOW AND STECH.

15. Enumerate and explain the 3D display-methodsneve?

Branch-Computer Scientle and Engineering / 1 T.

- 16. Explain the fundamental priffciples of 304 mansfrom a vigora of
- 17. Discuss the various methods of the visible surface detection algorithms.

Time: Three Hours

Or

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- 18. Explain the detailed principle of 3D rendering reward
- 19. Explain the various animation techniques stressing Raster Animation and morphing methods.

Each question carries 4 marks.

1. What are In (salar and explain methods of Fractal generation of the salar are In (salar 0.05) (salar 0.0

- z. Distinguish
- 3. How does light-pen locate position on screen?
 - 4. What is the use of Windowing?
 - 5. Define Resolution and aspect ratio.
 - 6. Explain Scaling and clipping
 - 7. Define Surface Rendering.
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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

Branch: Information Technology and transplanted and analogated and

MODERN COMMUNICATION SYSTEMS (T)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

- 1. Define numerical aperture of an optical fiber.
- 2. Distinguish between Step Index and Graded Index fibers.
- 3. Explain the reason for fading in microwave communication.
- 4. Compare Microwave and Optical communication systems.
- 5. Define the following with respect to satellite orbits:-
 - (i) Apogee.
 - (ii) Perigee.
- 6. List the features of GPS.
- 7. Why is the cell organized as hexagon in cellular systems?
- 8. Define frequency reuse factor in cellular systems.
- 9. What is meant by virtual channel?
- 10. List the features of Bluetooth technology.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. Explain the different types of losses in optical communication systems.

(12 marks)

Or

12. Explain the different types of light sources and light detectors used in fiber optic communication system.

(12 marks)

13. Sketch the block diagram for a microwave repeater station and explain.

(12 marks)

Or

14. With a block diagram, explain FM microwave radio system.

(12 marks)

15. Explain code division multiple accessing type of chennel accessing method.

(12 marks)

Or

16. (a) How is satellite communication helpful in radio navigation?

(4 marks)

(b) Explain the block diagram of a satellite transponder.

(8 marks)

Turn over

F 3639 17: Explain the concept of frequency reuse in cellular systems. (12 marks) Explain the various sources of interference in ca (6 marks) What is meant by cell splitting ? How is it accomplished? (6 marks) 19. Explain the concept and features of asynchronous transfer mode. (12 marks) MODERN COMMUNICACION SYSTEMS (T) 20. Write short notes on: (Regular/Supplementary) astrem 00(i) aBriSDM Tuckshimed) Hours (ii) WAP. Answer all questions. (6 marks) Part A $[5 \times 12 = 60 \text{ marks}]$ Each question carries 4 marks. 1. Define numerical aperture of an optical fiber. Distinguish between Step Index and Graded Ludex fibers. Explain the reason for fading in microwave communication. 3. Compare Microwave and Optical communication systems. Define the following with respect to satellite orbits:-Apogee. (ii) Perigee. 6. List the features of GPS Why is the cell organized as hexagon in cellular systems? Define frequency reuse factor in cellular systems. What is meant by virtual channel? List the features of Bluetooth technology. $(10 \times 4 = 40 \text{ marks})$ Part B Each question carries 12 marks. (12 marks) Explain the different types of losses in optical communication systems. Explain the different types of light sources and light detectors used in fiber optic communication Sketch the block diagram for a microwave repeater station and explain. With a block diagram, explain FM microwave radio system. Explain code division multiple accessing type of chennel accessing method How is satellite communication helpful in radio navigation? Explain the block diagram of a satellite transponder.

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

 ${\bf Branch: Information\ Technology}$

MULTIMEDIA TECHNIQUES (T)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

- 1. What are authoring tools? Explain.
- 2. Compare Analog and Digital video.
- 3. Write notes on fractals.
- 4. Explain the JPEG standard.
- 5. Explain microsoft multimedia extentions.
- 6. What is CD-I? Discuss its uses.
- 7. Discuss transform classes.
- 8. What is database integration? Explain.
- 9. Write notes on video conferencing and its applications.
- 10. Discuss the applications for image synthesis.

 $(10 \times 4 = 40 \text{ marks})$

Part B

11. Discuss the commonly used input and output devices in multimedia applications. (12 marks) Or

12. Write notes on:

(i)	Computer animation.	(6 marks)

(ii) Digital audio. (6 marks)

13. Explain MIDI. How is it powerful? What are its limitations? (12 marks)

Or

14. (i) Explain the MPEG standard. (6 marks)

i) Write notes on wavelets. (6 marks)

15. List out the members of CD family. Compare their features and applications. (12 marks)

 O_T

16. What is a multimedia PC? What are its components? What are its uses? (12 marks)

17. Discuss in detail the classes used in multimedia programming. (12 marks)

Or

18. Discuss the problems in multimedia programming. (12 marks)

19. Explain what is full motion video. Discuss all aspects in designing such systems. (12 marks)

20. Explain what is virtual reability. Discuss its applications and limitations. (12 marks)

 $[5 \times 12 = 60 \text{ marks}]$

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

Branch—Computer Science and Engineering/Information Technology

WEB TECHNOLOGIES (RT)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Part A

Each question carries 4 marks. Answer all the questions.

- 1. Write the features of SGML.
- 2. Write about accessing beans via scriplets.
- 3. Explain JSP.
- 4. Explain about Attribute defaults.
- 5. Write the principle of creating Java Beans.
- 6. Discuss the basics of EJB.
- 7. Explain Entity References.
- 8. What are the features of Entity Beans?
- What are Scriplets?
- 10. Write the features of JavaBeans.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Answer all questions. Each question carries 12 marks.

11. (a) Explain the features of XML.

(6 marks)

Compare in detail XML and HTML.

(6 marks)

Or

12. Discuss about the Attributes of Tags.

(12 marks)

13. (a) Explain the principle of storing XML data in HTML document.

(6 marks)

(b) Discuss the different XML applications.

(6 marks)

Or

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14	Explain.the.poingiplo of creating XML DTPsyze(1)	(4)23	og kaj
15	Explain the steps to design Java Beans.	(12 1	marks)
16.	B.TECH. DEGREE EXAMINATION, NOVEMBER 2010 belivord are stotibe vtracord moteus word nislaya? noitseimoteus si tardw	(12 1	marks)
17.	Seventh Semester (a) Explain about accessing beans via scriplets.	(6 1	marks)
	(b) Write about reading and setting properties of Java Beans.	(6)	marks)
	CIM EMBOLIONIONI RRW		
18.	(Regular/Supplementary) Explain the principle of creating simple JSP pages in detail.	(12)	marks)
Marks .e.	Discuss about stateful session beans and its development. A pag	(12 1	marks)
20.	Answer all the questions in detail. Each question carries 4 marks.	(12 1	marks)
	Each question carries 4 marks. 21 \times 6] 4 the features of SGML.	= 60 1	
	e about accessing beans via scriplets.	Write	2.
	ain JSP.	Expl	3.
	ain about Attribute defaults.	Expl	4.
	the principle of creating Java Beans.	Write	5.
	ass the basics of EJB.	Discu	6.
	ain Entity References.	Expl	7.
	are the features of Entity Beans?	What	8.
	are Scriplets?	What	.9.
	the features of JavaBeans.	Write	10.
narks)	$(10 \times 4 = 40 \text{ r})$		
	Part B		
	Answer all questions. Each question carries 12 marks.		
narks	Explain the features of XML.		11.
narks)	Compare in detail XML and HTML.) (d)	

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2010

Seventh Semester

Branch: Computer Science and Engineering/Information Technology

WINDOWS PROGRAMMING—(Elective I) (RT)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Part A server ment berustans and segund wold

Answer all the questions. Each question carries 4 marks.

- 1. What are the basic features provided by VB language?
 - 2. What are the major properties and measurement to be set when working with forms?
 - 3. List out any two standard controls with proper example.
 - 4. Mention the use of directory list box.
 - 5. Write note on dialog controls.
 - 6. Explain the significance of tree view control.
 - 7. Explain the function of MCI control.
 - 8. List out the different multimedia file formal which can be used in any VB application.
 - 9. Describe how dipboard help to transfer images and text between applications.
- 10. Describe the graphic methods and controls used in VB.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11. What is event driven programming? Also with the help of examples explain how VB handles events?

(12 marks)

01

- 12. Explain the various datatypes and control statements supported by VB with the help of example.

 (12 marks)
- 13. Write notes on the following controls:—
 - (a) Frames.
 - (b) File.
 - (c) Drive.

(12 marks)

Or

14. Compare the features available in MDI with SDI.

(12 marks)

Turn over

F 3689 15. Describe the various dialog controls with example. (12 marks) 16. How properties and methods are added to active-X control? (12 marks) Explain the various multimedia controls in VB. (12 marks) 18. Discuss the methods and controls which support graphics in VB. (12 marks) 19. How databases are accessed using DAO and RDO data control. (12 marks) How images are captured from screen? Explain. (6 marks) Discuss how mouse operations can be handled outside the program window. (b) (6 marks) $5 \times 12 = 60 \text{ marks}$ was subsequent open side on tadi. List and any two standard controls with greger stanges. Explain the eignificance of tree view control.

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,	Time . Ti	nree Hours	(100 arar, 5 approximation)		ximum: 100 Marks
	1me. n	mee mours	Answer all question	.lmyab en 8	18 Explain IPV
			Part A	. TAW. to wintentifican	19. Downibs the
		97)	Each question carrries	4 marks.	
		iscuss about Multicari	rier modulation.	WWW against medical WWW	20. Explain the
		Vrite the goals of Mobi			
		Explain LEO satellite s			
	4. E	Explain the term "Freq	uency Reuse".		
	5. V	Vrite a note on Digital	Video Boardcasting.		
	6. I	Discuss about Tunnelli	ng and Encapsulation proces	s.	
	7. I	Discuss in WML.			
	8. \	What is Mobile Compu	ting?		
	9. \	Write the features of W	ML.		
	10. \	What are Adhoc netwo	rks?		
			×		$(10 \times 4 = 40 \text{ marke})$
			Part B		
	90		Each question carries 1		(10 oleo)
	11.	Explain Mobile Teleph	one System in detail with a n	eat diagram.	(12 marks)
	20		or Or		
	12. 1	Explain:			(6 marks)
		(a) Cellular syst	ems. of mobile computing with an	Pα	(6 marks)
	10	, ,	or mobile computing with an agram the system architectur		(12 marks)
	13.	explain with a neat di	agram the system architectul Or	TO DE W. CHENTE DJ DEVIME	()
	1.4	Evaloin the different o	atellite systems GEO and MI	EO.	(12 marks)
×	14.	Explain the unicient s		a 5	Turn over

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	il the protocol/layers	•	(12 marks)
		DEGREE EXAMINATION	anivans a
	1,000,10	Saventh Semesta	(6 marks)
. , _	he handover scenario		(6 marks)
		CP, snooping TCP and Mobile TCP	transmissions in detail.
11. 20002200 0200	(TA) (Levilo	MOBILE COMPUTING—(iii)	(12 marks)
	ary)	(Regular/Supplement	
disM 001 : mumika 18. Explain IPV6			aruoH s(12/marks)I
-		Answer all questions	
To. Describe the a		Adrag	
20. Explain the W	aarks. Setidora metaya WW	Each question carries 4 n	(12 marks)
20. Explant the W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	icarrier modulation.	tluM tpoke122 #060Imarks]
		Aobile IP.	2. Write the goals of M
		ite system.	3. Explain LEO satelli
			4. "Explain the term "I
		rital Video Beardensting.	
		nelling and Encapsulation process.	•
			7. Discuss in WML.
			8. What is Mobile Cor
	, 		9. Write the features
$(10 \times q = q) \text{ mark}$		tworks?	10. What are Adhoc ne
		Part B	
	adana	Each question carries 12 r	
(12 mark		lephone System in detail with a nea	off olidaM minimum 1 t f
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	97	10	10 Emlain
dram 8)		systems.	12 Explain:
(6 mark	,	systems. Iges of mobile computing with an eg	
(12 mark		at diagram the system architecture	
		70	I.O. IJAPIGIII WAGIA G.
(12 mark		ent satellite systems GEO and MEO	t4 Explain the differe
avo mtuli		4	