G 1848	(Pages : 2)	Reg. No
plain its functioning, (6 marks)	racking and command sub-system? Ex	Name
draso at beau od od wB.TECH (sdram 8)	H. DEGREE EXAMINATION, Eighth Semester	MAY 2010 MAY (0)
Through any of the same	Electronics and Communication ANCED COMMUNICATION SYST	sources, occurrenced as sources. They was
t from a beam hopping TDMA ?	(Regular/Supplementary)	(b) Explain the operation of
Time : Three Hours		Maximum: 100 Marks
oity broadcasting systems and (8 marks)	Answer all the questions. Part A	ti. (a) Draw the block-diagram explain.
(adama 4)	Each question carries 4 marks. orbital parameters required to determi	systems
2. What is meant by Stati	on Keeping of Satellite ? Explain its s	ignificance.

- 3. What is "energy dispersal"? Discuss its application for satellite communication.
- 4. What is CDMA? Discuss in what way is it superior to TDMA.
- 5. Explain about channel assignment?
- 6. Explain the fundamental principle of Blue-tooth technology.
- 7. Explain the concept of paging system.
- 8. Discuss the features of GSM.
- 9. What is meant by Spread Spectrum? How can it be used for communication purpose?
 - 10. What is PN sequence? Discuss its characteristics.

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

Part B

Each question carries 12 marks.

- 11. (a) What is meant by look angles? Explain them with reference to a geostationary satellite and the earth station. (6 marks)
 - (b) Discuss the factors that affect the uplink design and the downlink design in satellite communications. (6 marks)

(a) Compute second generation cellular networks

10115311	ecentral contract of the contr	(# : E2## 1)	OSCAL
12.	(a)	What is the telemetry, tracking and command sub-system? Explain its functioning	g. (6 marks)
	(b)	Explain with suitable diagram the working of various antenna systems to be u stations.	sed in earth (6 marks)
13.	(a)	What is Satellite Switching? Explain the difference between static and dynamic	switching.
		ADVANCED COMMUNICATION SYSTEMS (L)	(5 marks)
	(b)	Explain the operation of a SS-TDMA system. How is it different from a beam hopp	ing TDMA ?
cafraild	i oor	Hours Maximum :	(7 marks)
		2 another out the remark	
14.	(a)	Draw the block diagram of direct broadcasting and community broadcasting explain.	ystems and (8 marks)
	(b)	Explain the difference between Pre-assignment and Demand assignment musystems.	(4 marks)
15	173	e and explain the orbital parameters required to determine a saleilite's orbit.	
15.	Exp	plain in detail various handoff strategies used for cellular communication system. Or.	(12 marks)
16.	Exp	plain the various techniques used in practice to expand the capacity of cellular sys	
		ain about channel newignment ?	(12 marks)
17.	Dra	aw the block diagram of GSM system architecture and explain in detail.	(12 marks)
+)		Or	See Street
18.	(a)	Compare second generation cellular networks with third generation cellular net	
		ues the features of GSM.	
	(b)	Explain about GSM traffic channels.	(6 marks)
19.	Exp	plain the direct sequence and frequency hopping techniques of spread spectrum contem.	munication
1		Or	(12 marks)
20.	Der	rive an expression for jamming margin and processing gain.	(12 marks)
te and narks)		21×6] mount by look angles "Explain them with reference to a geostationary as the carth station	
	uu mi	Discussion that factors that affect the ordinal design and the downlink design if	

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B.TECH. DEGREE EXAMINATION, MAY 2010

Eighth Semester

Branch: Electronics and Communication Engineering/Applied Electronics and E & I Engineering

ADVANCED MICROPROCESSOR (LAS), in final day and the second second

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A ma has level speliving toompact

Each question carries 4 marks.

- 1. List the tasks performed by the BIU (Bus Interface Units) and EU (Execution Units) of 8086 microprocessor.
- 2. Distinguish between Logical and Physical address.
- 3. List the addressing modes used in the instruction set of 8086.
- 4. Explain the use of 'D' (direction) flag by the string addressing mode instructions.
- 5. Differentiate between real and protected mode of operation.
 - 6. Discuss about the hardware features of 80286.
 - 7. Explain the virtual 8086 mode of operation of 80386.
 - 8. What is an interrupt vector table? Where it is located? What does it contain?
 - 9. What are superscalar machines? Why pentium is called as a superscalar machine?
 - 10. Compare RISC architecture with CISC architecture.

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

Part B

Each question carries 12 marks.

11. Explain in detail the segmented memory operation of 8086. Also explain how 8086 generates the 20 bit physical address.

Or

12. With the help of diagram explain how 8086 processor can be interrupted using INTR pin. Also explain how 8086 respond to interrupt request on this pin.

	2 G 1859
13.	Discuss about the following addressing modes of 8086 processor with suitable example:—
	(i) Register addressing. (ii) Immediate addressing.
	(iii) Direct addressing. (iv) Base plus index addressing.
1 :	Branch : Electronics and Communication Engineering Applied Electronics and E &
14.	Explain in detail about program memory addressing modes, with examples.
15.	Describe the paging mechanism of 80486 processor.
raied.	Time . Three Hours - Or
16.	Discuss about the following:—
-	(i) Segment privilege level and protection.
	(ii) Interrupts and exception handling.
18 To	(iii) Task switching.
	nicroprocessor.
17.	Draw the internal architecture of 80286 in simplified block diagram form and explain.
	3. List the addressing modes used in the instruction set of 8086.
18.	
19.	1
	logic.
	Or
20.	
,	and data cache organization.
	$(5 \times 12 = 60 \text{ marks})$
	10. Compare RISC architecture with CISC architecture.
inimi.	$OV = V \times OV$
	Part B
	Each question curries 12 modes
	11 Explain in derial the segmented memory operation of 8086, Also explain how 8086 genera
	20 bit phymeal address:

12. With the help of diagraffit explain how 2000 processor may be totely uping DVPR pm. Also . Turn over

\mathbf{G}	186	8
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Reg. No.....

Name

B.TECH. DEGREE EXAMINATION, MAY 2010

Eighth Semester

Branch: Electronics and Communication Engineering

TELEVISION ENGINEERING (L)

(Regular/Supplementary)

Time: Three Hours

Hours Maximum: 100 Marks

Answer all the questions.

Explain the radiation principle of YAGL Antenna with a next electch. Explain its design details.

Each question carries 4 marks.

- 1. What is meant by Flickering and Interlaced Scanning? Explain.
- 2. Explain the advantages and applications of VSB transmission.
- 3. Compare Positive Modulation and Negative Modulation.
- 4. Give an account on (i) Delta Gun, (ii) PII.
- 5. What is BALUN? Explain the types of baluns with neat sketches.
- 6. Compare SMPS with linear mode power supplier.
- 7. Explain the colour response of human eye with a neat diagram.
 - 8. Explain the principle of additive mixing of colours.
 - 9. What is LNB? Explain it in detail.
- 10. Explain the principle of digital recording in detail.

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

Write short notes on:

BOWGE YEAR.

Part B

Each question carries 12 marks.

11. Draw the basic block schematic diagrams of TV transmitter and receiver. Explain them in detail.

in an international state of the state of th	(Pages: 2) Hegs No	8961 0
12. Define and	explain:	ž.
(i) Cole	or resolution and Bandwidth.	(4 marks)
(ii) Cor	nposite Video signal.	(4 marks)
(iii) Syr	chronization.	(4 marks)
13. Explain the	working principles of Vidicon and Plumbicon with neat schematic	liagrams.
	(Yxminenelong/xmioged) Or	WW
14. Compare a	nd contrast high level and low level modulation. Explain the compa	rison.
15. Explain the	radiation principle of YAGI Antenna with a neat sketch. Explain i	ts design details.
	Or	
16. Draw a nea	t block diagram of SMPS and explain its functioning in detail.	1. What is n
17. Explain in	detail the PAL system with a neat diagram.	2. Explain th
	ositive Modulation and Negative Modulation	
18. Explain in	detail the polarity of colour difference signal.	4. Give an a
19. Explain th	e fractional block schematic of CCTV with a neat diagram.	5. What is B
te .	Or server server short special dain 89008	6. Company
20. Write shor	t notes on :	7. Esphain il
(i) Di	sh Antenna.	(4 marks
(ii) D	VD.	
(iii) La	ser source.	
	e principle of digital recording in detail.	$5 \times 12 = 60 \text{ marks}$
$10 \times 4 = 40$ marks		

Part B

ch quartion corries 12 marks

17. Draw the basic block echemistic diagrams of TV transmitter and receiver. Explain them to detail

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B.TECH. DEGREE EXAMINATION, MAY 2010

Eighth Semester

Branch: E.C.E./Applied Electronics and Instrumentation/E.I.E.

COMPUTER NETWORKS (LAS)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What is TCP/IP? Explain.
 - 2. Explain asynchronous transmission with an example.
 - 3. Short note on "serial communication standard".
 - 4. What is Polling? Explain.
 - 5. Write short note on "ring network".
 - 6. What is X-25? Explain its protocol.
 - 7. What is ARPANET? Explain.
 - 8. Write short note on "remote procedure call".
- 9. What are the roles of the application layer?
- 10. What is SONET? Explain its principle.

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

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Part B

Answer any **five** questions. Each question carries 12 marks.

11. Explain the OSI network model in detail.

Or

12. What is Network Topology? Explain the various network topologies.

Turn over

13.	Write short notes on:		
	(i) Datagraph 12-18 ACM PARAMANA	369080 8007.8	4 marks)
	(ii) Multiplexing.	G = 134	4 marks)
	(iii) X-21.	Branch EC. School El	4 marks)
	(ii. 1 − 1/2 ii 2 1 + 1 0n − 1		
14.	What is Routing? Explain in detail.		
III 711) (S	A Community		
15.	(i) What is LAN? and differentiate base band a		6 marks)
	(ii) Explain IEEE-802 standards.		6 marks)
	(a) Or		
16.	(a) What is Flow Control? Explain the various i	ssues in it.	8 marks)
100	(b) Short note on "Carrier Sense Network".		4 marks)
17.	Explain the role of session layer in detail.	ily noboliminored in Szafonyca mislyza	
		Short note on "servel construnication do	
18.	Explain the role of presentation layer in detail.	What is Polling? Esplain	
19.	What is SDH? Explain.	Wrater short note on war mark where	
	Or	When is X-28 ? Explain its protosoil.	
20.	Write short notes on:		
	(i) Virtual terminal.	wall safe stomer" no slow trada in 1/4	1 marks)
	(ii) E-mail.	ni multaijagu nati Taraker sate urselua (4	marks)
	(iii) Distributed system.	daranga magai Staves	1 marks)
marking		$[5 \times 12 = 60]$	marks]

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distributed influences and all particular

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B.TECH. DEGREE EXAMINATION, MAY 2010

Eighth Semester

Branch: ECE/Applied Electronics and Instrumentation Engineering

VHDL (Elective II) [L A]

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

- 1. Give example of entity declaration.
- 2. Discuss about operators.
- 3. Discuss the syntax of conditional signal Assignment.
- 4. Discuss about Multiple drivers.
- 5. Discuss the syntax of component instantiation.
- 6. Explain incremental Binding with example.
- 7. Explain the syntax of package body.
- 8. Write notes on operator overloading.
- 9. Discuss guarded signals.
- 10. Discuss about Interacting state machine.

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

Part B

Each question carries 12 marks.

- 11. Write notes on:
 - (a) Configuration declaration.
 - (b) Package declaration.

(6 + 6 = 12 marks)

Or

12. Discuss various operators used in VHDI.

(12 marks)

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B.TECH. DEGREE EXAMINATION, MAY 2010

Eighth Semester

Branch—Electronics and Communication Engineering, AE and I,
Electronics and Instrumentation Engineering

MULTIMEDIA SYSTEM (Elective - III) (LAS)

(Regular/Supplementary)

Time: Three Hours

Maximum: 100 Marks

Answer all the questions.

Part A

Each question carries 4 marks.

- 1. What is Multimedia? Explain with an example.
- 2. Explain Adobe video editing multimedia tool.
- 3. Compare different image compression standards.
- 4. Short note on 'Capture and play back technique.
- 5. Compare compact disk and floppy disk.
- 6. Explain the various modes of CD ROM.
- 7. What are format classes in a Multimedia framework?
- 8. What is multimedia network? Explain.
- 9. What is Database integration? Explain.
- 10. What is Interactive capacity? Explain.

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

Part B

Answer any **five** questions. Each question carries 12 marks.

11. (i) Compare analog and digital video.

(6 marks)

(ii) Explain vedio editing tools.

(6 marks)

Or

12. Discuss in detail about the various multimedia authoring tools.

(12 marks)

13. (i) What is MPEG? Explain.

(9 marks)

(ii) Compare MPEG and JPEG.

(3 marks)

Or

Turn over

5-4-4		G 1320
14.	Explain GIF and TIFF file formats used for images.	(12 marks)
15.	What is CD? Explain about packets required for CD quality bit stream with	hout compression.
		(12 marks)
	Or	
16.	What is Quick time? Explain in detail.	(12 marks)
17.	Explain media classes and component classes in detail.	(12 marks)
	r and stables and component classes in detail.	(12 marks)
	Or	
18.	(i) List the various problems related to programming and explain.	(8 marks)
	(ii) Short note on Database integration.	(o marks)
19.		(4 marks)
10.	Brief note on Future multimedia.	(12 marks)
	Or	
20.	Explain any two video capture techniques.	
	and the supplier beeningues.	(12 marks)
	I had nit waither any the petur or	$[5 \times 12 = 60 \text{ marks}]$