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Code No: R15A0514 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) III B.Tech I Semester Supplementary Examinations, April 2023

Computer Networks (CSE)

(CDL)									
Roll No									

Time: 3 hours

Note: This question paper contains two parts A and B Part A is compulsory which carriers 25 marks and Answer all questions. Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a b c d	What is data network? Describe switching and how it is used in networks? Explain Sliding window protocols in data link layer. Explain error detection and correction in detail	[2M] [3M] [2M] [3M]
e f	How does DHCP protocol work? Illustrate on Sub netting and super netting.	[2M] [3M]
g	Demonstrate on Crash recovery in Transport layer	[2M]
h	what is Real time transport protocol	[3 M]
i	Give brief note on E-mail	[2M]
j	Summarize with neat sketch SSH protocol. PART-B (50 MARKS)	[3M]
	SECTION-I	
2	Discuss the functionalities of different layers in OSI Model with the help of diagrams.	[10M]
2	OR	
3	Illustrate the working of twisted pair cable with the help of diagram and list	[10M]
	out the advantages and disadvantages. SECTION-II	
4	Design an algorithm for CRC. Calculate the checksum for given $M(x) = x^7+x^6+x^4+x^3+x+1$ and the generator polynomial is $g(x) = x^4+x+1$ using CRC on both sending side, receiving side. OR	[10M]
5	List out the functionalities of bridge, switch, router and gateways. SECTION-III	[10M]
6	Explain in detail about IPV4 and IPV6 protocols with help of neat sketch. OR	[10M]
7	With neat sketch explain ARP,RARP Protocols SECTION-IV	[10M]
8	Illustrate elements of Transport layer protocols. OR	[10M]
9	Explain Sliding window protocol in detail	[10M]

Max. Marks: 75

	<u>SECTION-V</u>	
10	List out the various functionalities of application layer.	[10M]
	OR	
11	Describe how does HTTP works? Explain with a neat sketch.	[10M]

Code No: R15A0517 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) III B.Tech I Semester Supplementary Examinations, April 2023 Computer Graphics

puter	GI	aj
(CS	SE)	

	(352)								
Roll No									

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions. Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

*** PART-A (25 Marks)

Write is raster-scan systems? [2M] 1). a How to perform mid-point circle and ellipse algorithms b [**3M**] What is reflection and shear transformation [2M] с Write short notes viewing coordinate reference frame. d [**3M**] Differentiate Bezier curve and B-spline curve [2M] e Explain polygon rendering methods [**3M**] f What is Classification method [2M] g h Explain depth sorting methods [**3M**] What are the computer animation languages. i [2M] List out general computer animation functions i [**3M**] PART-B (50 MARKS) **SECTION-I** 2 Explain boundary-fill and flood-fill algorithms with example [10M] OR 3 Explain the following with example (i)Video-display devices [5M] (ii)Raster-scan systems [5M] **SECTION-II** Explain viewing functions with examples. 4 [10M] OR Explain Sutherland Hodgeman polygon clipping algorithm with example 5 [10M] **SECTION-III** Explain polygon surfaces and quadric surfaces with example. 6 [10M] OR Explain the following 3-D geometric transformation techniques. 7 (i) Translation [5M] (ii) Rotation [5M]

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	SECTION-IV	
8	Explain area sub division method with example	[10M]
	OR	
9	Explain the following	
	(i)BSP Trees	[5M]
	(ii) Octree method	[5M]
	SECTION-V	
10	Illustrate the importance of motion specifications	[10M]
	OR	
11	Explain the following	
	(i) Computer animation functions	[5M]
	(ii) Computer animation languages	[5M]

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Code No: R15A0513 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) III B.Tech I Semester Supplementary Examinations, April 2023

Operating Systems (CSE)

Roll No									

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions. Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a	Why is the operating system important?	[2M]
1). u b	Distinguish between Kernel and OS?	[3M]
c	What do you mean by Semaphore in OS? Why is it used?	[2M]
d	Differentiate between process and thread?	[2]
e	Differentiate logical address and physical address.	[3M]
f	What is swapping in memory management?	[3 M]
g	What is the use of paging in operating system?	[2M]
ĥ	List the various File Attributes used in Files.	[3 M]
i	Describe about Language based protection in OS.	[2M]
j	What is starvation in operating system?	[3M]
5	PART-B (50 MARKS)	
	SECTION-I	
2	State the essential properties of the following types of operating systems.	
	(i) Batch	[5M]
	(ii) Multi Programmed	[5M]
	OR	
3	State the advantages of using virtual machines.	[10M]
	Describe about java virtual machine with neat sketch.	
	<u>SECTION-II</u>	
4	Demonstrate queuing-diagram representation of process scheduling. OR	[10M]
5	What are monitors? Determine the syntax of a monitor.	[10M]
5	SECTION-III	
6	Explain memory management in detail	[10M]
0	OR	
7	Explain the concepts of paging and segmentation	[10M]
	SECTION-IV	
8	Define file and what are different file access methods	[10M]
	OR	
9	Explain Directory structure and types of directory structures	[10M]

SECTION-V

10 Give a detailed description about deadlocks and its characterization. [10M]

OR

11 Describe Access matrix and different methods used for implementing **[10M]** Access Matrix.

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Max. Marks: 75

Code No: R15A0065 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) III B.Tech I Semester Supplementary Examinations, April 2023 ement Science

Management Sci	İ
(CSE)	

Roll No									

Time: 3 hours

Note: This question paper contains two parts A and B Part A is compulsory which carriers 25 marks and Answer all questions. Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a	What is scalar chain principle?	[2M]
b	Mention any three leadership styles.	[3 M]
с	Explain about line organization.	[2M]
d	Write a short note on EOQ.	[3 M]
e	What do you mean by PMIR?	[2M]
f	Briefly discuss about man power planning.	[3 M]
g	What is crash time?	[2M]
h	Explain the project cost analysis.	[3 M]
i	Why mission is important for company?	[2M]
j	Distinguish between objective and policy.	[3 M]
	PART-B (50 MARKS)	
	<u>SECTION-I</u>	
2	Taylor is known as father of scientific management. Explain his contributions towards management.	[10M]
	OR	
3	"Two factor theory is superior to need theory" do you agree. In this	[10M]
5	context discuss two factor theory in brief.	
	SECTION-II	
4	Compare and contrast line, staff and functional authority.	[10M]
•	OR	
5	Explain marketing strategies for saturation and decline stages of PLC with	[10M]
	examples.	
	SECTION-III	
6	Define training. Explain the types of the job training methods.	[10M]
	OR	
7	Do you think performance appraisal is on regular basis? In this context	[10M]
	explain the steps in performance appraisal.	
	SECTION-IV	
8	Briefly explain various steps in Programme Evaluation and Review	[10M]
	Technique.	

OR

9 A project has the following time schedule

Activity	Time in months	Activity	Time in months
1-2	2	3-7	5
1-3	2	4-6	3
1-4	1	5-8	1
2-5	4	6-9	5
3-6	8	7-8	4
		8-9	3

Draw the network and compute critical path.

SECTION-V

10 What is SWOT analysis? What is the significance of SWOT analysis for [10M] strengthening an organization?

OR

Examine the steps in strategy formulation and implementation. ***[10M] 11

[10M]