This question paper contains 4 printed pages.]

1759

Your Roll No.

PGDCA/II Sem.

A

Paper – CS–2.4

COMPUTER NETWORK AND INTERNET

Time: 3 Hours Maximum Marks: 100

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt all questions. Parts of a question should be answered together.

- 1. (a) A host computer is interconnected by a large number of dumb terminals. Is it a computer network? Justify your answer.
 - (b) Why is the minimum packet size of Ethernet frame 64 bytes?
 - (c) Give two computer applications for which Connection-Orientation services are appropriate and for which Connectionless services are best.

[P.T.O.

		device	used	in	the	following
14	yers :					1×4
(i)	Physical	Layer.				
(ii) Data Lin	k Layer.	• • •			
į (ii	i) Network	Layer.			۸	
į (iv	') Transport	Layer.	,			
(e) W	hat is a bri	dge? In	which	laye	r you	find it?
Ex	plain the	mode of	opera	tion	of b	ridges in
tra	nsmitting f	rames bei	ween I	ANs		1+1+3
	agrammatic			P-head	der ar	d discuss
the	various fie	lds of he	ader.			5
2. (a) W	at do you u	ınderstan	d by 10	Base	5 wi	th respect
to	Ethernet?					2
(b) Wi	nat is wel	browse	r &	briefl	y ex	plain its
arc	hitecture.	,				2+3
(c) Gi	ve full form	ns of the f	ollowir	ıg:-	•	
(i)	SMTP	*.				
····(ii)	FTP					
· (iii) HTTP	, .				
(iv)	ARP				٠	. 4
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	(d)	How many types of web documents are there? Write their advantages and disadvantages. 3+6
3.	<u>(</u> a)	Name two basic transmission technologies used in networks. 46.1 * form (1.14.40.1) 1+2
	(b)	What problems are associated with SLIP protocol?
	(c)	Explain. OSI reference model. Describe the function performed by each layer.
	(d)	Define CSMA / CD protocol ? In which network is it used? Which algorithm is used to avoid collisions in CSMA/ CD? Explain.
4.	(a)	What is client-server paradigm? 2
	(b)	Describe connect procedure of Socket API. 3
	(c)	Draw the waveform of the bit stream 101100111001 using the following encoding schemes: 2×3 (i) Binary encoding (ii) Manchester encoding (iii) Differential Manchester encoding

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(d)	Compare and Contrast the following:	3×3
4	(i) Circuit switching and packet switching.	
Z455 155	(ii), Repeater and Router.	
. ·	(iii) TCP and UDP.	
5. Wri	te short notes on the following:-	4×5
	TFTP	
	MIME	
	PPP d bost algorithm is the	
	SMA/CD "Explain qAAA	
	9)	
(v)	1410	
	Marine Carlos Salar Marine Salar Communication (Communication)	
Him All?	in a to report the	
	is grewoffed only gross (100) in 11	
* x .	(1/6)	
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