

a) Presentation

c) Transport

		M 8129
Reg. No. :	ecking CRC is the	6. In cyclic redundancy ch
Name :	man InellouG (d.	
CORE COU	Degree (CCSS-Reg./Sukamination, May 2015 IRSE IN COMPUTER SCommunication and Con	CIENCE
Time: 3 Hours	SECROTYONS inhtege 4 for each	Max. Weightage: 21
S. Paelain in datail ISO OSI m	SECTION - A	
Answer all questions. Weightag	ge for a bunch of four questi	ons is 1 .
 What device separates a sin a) Router c) Gateway 	ngle network in to two segme b) Bridge d) Hub	
2. Which transmission media ha) Coaxial cablec) Optical fiber	as the highest transmission b) Twisted pair cabl	speed in a network?
3. FDM is commonly used on va) FM radioc) AM radio	b) Satellite	15. What is Bit stuffing?16. Discuss about flow cont
4. The Hamming distance between a) 2c) 4	b) 3 o c epampiew d) 1	Answer any five questions.
5. Error detection and recovery		 Explain network topolog
a) Presentation	b) Network	

b) Network

19. Explain cyclic redundancy on noising Application to consule example.



6.	In cyclic redundancy checking CRC is the			
	a) Divisor	b) Quotient		
	c) Dividend	d) Remainder		
	achille n	y requires a central controller		
8.	. The plain text after encryption is called (2×1=2			
	Max. Weightage:	SECTION - B		
Ar	nswer any five questions. Weig	htage 1 for each.		
9.	Define star topology. Write do	wn its advantages.	Answer all questions. W	
10.	What is a firewall ?	s a single network in to two s		
11.	What is piggy backing?		a) Router executed	
12.	What is the need of multiplexi	ng in transport layer?		
13.	3. What do you mean by three way hand shaking?			
14.	Write a short note on Data link layer design issues.		c) Optical fiber	
15.	What is Bit stuffing?		3. FDM is commonly use	
16.	Discuss about flow control.	b) Satellite d) Bursty	(5×1=5)	
	ei t	SECTION-C		
Ans	swer an y five questions. Weigh	a) 2		
17.	7. Explain network topologies with structures.			
18.	Discuss about unguided trans	mission media.	Error detection and real and real and Presentation	
19.	Explain cyclic redundancy che	eck with suitable example.	c) Transport	



- 20. Explain sliding window protocol.
- 21. What are the functions of Transport Layer?
- 22. Explain shortest path routing algorithm with a suitable illustration.
- 23. Differentiate between TCP and UDP.
- 24. Discuss about traditional cryptographic methods.

 $(5 \times 2 = 10)$

SECTION - D

Answer any one questions. Weightage 4 for each.

- 25. Explain in detail ISO-OSI model.
- 26. What do you mean by congestion control?

 Explain about:
 - a) Leaky Bucket Algorithm
 - b) · Token Bucket Algorithm.

c) Optical fiber

 $(1 \times 4 = 4)$