

WEST BENGAL STATE UNIVERSITY

B.Sc. General Part-III Examination, 2019

COMPUTER SCIENCE

PAPER-CMSG-IVA

Time Allotted: 2 Hours Full Marks: 50

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

Answer Question No. 1 and any five from the rest

1.		Answer any <i>five</i> questions from the following:	$2 \times 5 = 10$
	(a)	How a Switch is different from a Hub?	
	(b)	Differentiate broadband and baseband.	
	(c)	Define Shannon capacity.	
	(d)	What is FDM?	
	(e)	What is Paging?	
	(f)	What do you mean by flow control?	
	(g)	Define selective repeat ARQ.	
	(h)	How ring topology is different from star topology?	
2.	(a)	What is slotted ALOHA?	2
	(b)	What is buffering?	3
	(c)	Write about Stop and Wait protocol.	3
3.	(a)	What do you mean by error control?	2
	(b)	Describe the components of a data communication system.	6
4.	(a)	Explain FSK briefly.	3
		What is HTTP and what port does it use? How does it differ from HTTPS?	2+1+2
5	(a)	What is Go-Back-N ARQ?	2
٥.		Write a short note on Selective Repeat Protocol.	3
		What is the frame format of HDLC?	3
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6.	(a)	What is CSMA/CD?	2
	(b)	Write a short note on Token Bus.	2
	(c)	Write any one routing algorithm.	4
7.	(a)	Discuss coaxial cable.	5
	(b)	What are the advantages of optical fiber over coaxial cable?	3
8.		Write short notes on any <i>two</i> of the following:	4+4 = 8
	(a)	Sliding window protocol	
	(b)	Email system	
	(c)	Routing	
	(d)	IP addressing.	

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