



WEST BENGAL STATE UNIVERSITY
B.Sc. General Part-III Examination, 2020

COMPUTER SCIENCE

PAPER-CMMSG-IV-A

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 *five* questions from the following: 2×5 = 10
- (a) What is S/N Ratio?
- (b) What is a Geo-synchronous satellite?
- (c) State the full forms of —
URL, HTTP, ISDN, WWW
- (d) What is unshielded twisted-pair?
- (e) What is a Node?
- (f) Differentiate broadband and baseband.
- (g) What is Bridges?
- (h) What is DNS?
2. (a) What is Stop-n-Wait ARQ? 3+2+3
- (b) What is buffering?
- (c) What is Sliding-Window flow control?
3. What is CDMA? What is Gateway? What is Hamming Distance? 3+2+3
4. What is router? Describe one congestion control algorithm. Write short note on Token Bus. 2+3+3
5. (a) Why twisted pair cables are made twisted? 3+3+2
- (b) What are the advantages of Fibre optics cable?
- (c) What are the disadvantages of unguided media?

6. (a) What are transmission impairments? Explain such common impairments. 1+3
(b) What is bandwidth of a channel? What is a base-pass channel? 2+2
7. (a) What are the differences between a port address, a logical address and a physical address? 4+4
(b) What are the functions performed by Session Layer in OSI Model?
8. (a) What is the advantage of Coaxial cable over Twisted pair cable? 3+3+2
(b) Describe two types of twisted pair cable.
(c) What is infrared communication?
9. Write short notes on any *two* of the following: 4×2 = 8
(a) ALOHA
(b) IPv4 Addresses
(c) Ethernet
(d) Token Passing.

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