



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 3rd Semester Examination, 2022-23

CMSACOR07T-COMPUTER SCIENCE (CC7)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words as far as practicable
All symbols are of usual significance.*

GROUP-A

1. Answer any **four** questions from the following: 2×4 = 8
- (a) Why are protocols needed?
 - (b) What is a peer-to-peer process?
 - (c) What does the frequency of a signal measure?
 - (d) What is modulation?
 - (e) What are the three major switching methods?
 - (f) What is FDM?

GROUP-B

Answer any **four** questions from the following 8×4 = 32

2. Write short note on: 4+4
- (a) Unguided media
 - (b) Shannon capacity for Noisy Channel.
3. What are the different types of networks? Explain in detail. What is bit rate? 6+2
4. What is DNS? Explain. Explain about Checksum. 4+4
5. Explain the Shielded Twisted Pair (STP) and Unshielded Twisted Pair (UTP). Explain the concept of Token Bus. 4+4
6. What is manchester and differential manchester? Write short note on CDMA. 5+3
7. Write about Frequency Division Multiplexing. What are different propagation mode? Explain. 3+5
8. Write about Datagram Network. Write about Go-Back-N ARQ protocol. 4+4

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