C 4722 (Pages : 2) Name..

Reg. No....................................

SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, APRIL 2021

(CBCSS)

Computer Science

CSS 2C 08—COMPUTER NETWORKS

(2019 Admissions)

Time : Three Hours   Maximum : 30 Weightage

General Instructions

1. *In cases where choices are provided, students can attend* **all** *questions in each section.*

2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*

3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

Section A

Answer any **four** *questions.*
Each question carries 2 *weightage.*

1. Explain different transmission modes.

2. Define carrier signal and its role in analog transmission.

3. What is a WAP Gateway ? What are its functions ?

4. Distinguish between Error Detection and Error Correction.

5. Distinguish between a low-pass channel and a band-pass channel.

6. Explain DNS with example.

7. What are the three important characteristics of a periodic signal ?

(4 × 2 = 8 weightage)

Section B

Answer any **four** *questions.*
Each question carries 3 *weightage.*

8. What are the three major multiplexing techniques ? Explain.

9. Explain the principles of cryptography.

Turn over

10. Explain symmetric key distribution.

11. Distinguish between DNS and SMTP.

12. Differentiate flat name space and hierarchical name space.

13. Explain error detection in block coding.

14. Illustrate fixed and variable size framing.

(4 × 3 = 12 weightage)

Section C

Answer any **two** *questions.*
Each question carries 5 *weightage.*

15. What are the major switching techniques ? Explain.

16. Explain the concept of client server model with example.

17. Explain WWW architecture.

18. Explain error detection and correction using Hamming codes with example.

(2 × 5 = 10 weightage)