



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

**CMAHGEC03T/CMAGCOR03T-COMPUTER APPLICATION (GE3/DSC3)**

**COMPUTER NETWORK AND INTERNET TECHNOLOGY**

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.*

**Answer Q1 and any four from the rest**

1. Answer any **four** questions from the following: 2×4 = 8
  - (a) What is NIC?
  - (b) Differentiate between Guided and Unguided Media.
  - (c) What is an IPv4 address?
  - (d) What are HTTP and HTTPS protocol?
  - (e) Differentiate between repeater and amplifier.
  - (f) What is ISP?
  - (g) What is a proxy server?
  
2. Discuss the Advantages and Disadvantages of the following: 2×4 = 8
  - (a) Ring Topology
  - (b) Mesh Topology
  - (c) Star Topology
  - (d) Bus Topology
  
3. Explain the Roles of the following Layers: 2×4 = 8
  - (a) Data Link Layer
  - (b) Transport Layer
  - (c) Presentation Layer
  - (d) Application Layer
  
4.
  - (a) Differentiate between Internet, Intranet and Extranet. 3+3+2
  - (b) Explain and briefly compare Switch and Hub.
  - (c) What are Nodes and Links?

5. Create an HTML document with following formatting: 1×8 = 8
- (a) Bold Text
  - (b) Underlined Text
  - (c) Strike Text
  - (d) Superscript Text
  - (e) Deleted and Inserted Text
  - (f) Smaller and Larger Text
  - (g) Background Change
  - (h) Heading of a Paragraph.
6. Differentiate between the following: 4×2= 8
- (a) e-commerce and m-commerce
  - (b) Routers and Gateway
7. (a) What are Protocols? What are the key elements of protocol? 2+2
- (b) What is FTP? How it works? 2+2
8. Write short notes on any *two* of the following: 4×2 = 8
- (a) Fibre optic cable
  - (b) WWW
  - (c) URL
  - (d) Microwave.

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