

2025

**INTERNET AND WWW AND
FUNCTIONAL e-BUSINESS SYSTEM — GENERAL**

Paper : DSE-6.1e-BG

Full Marks : 80

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Module - I

(Internet and WWW)

Group - A

1. Answer *any two* questions :

5×2

- (a) Explain the function of Simple Mail Transfer Protocol (SMTP) in the TCP/IP suite.
- (b) Explain how a Telnet session is established and terminated.
- (c) Explain the role of port numbers in TCP/IP communication.

Group - B

2. Answer *any five* questions :

- (a) Explain Domain Name System (DNS). How does it help in resolving IP addresses? 3+3
- (b) Differentiate between Internet and Groupware with suitable examples. 6
- (c) Compare and contrast Email, FTP, Telnet and Usenet as Internet communication tools. 6
- (d) Explain the concept of secure physical infrastructure in the context of internet and network security. 6
- (e) Describe the architecture and purpose of Gopher. How does it differ from WWW? 3+3
- (f) Explain the services provided by an Intranet. How does web (HTTP) publishing work in this context? 3+3
- (g) Explain how web browsers and search engines differ in functionality. Show with user interaction flows. 6
- (h) What are the main components of a firewall system and how does each contribute to network protection? 2+4

Please Turn Over

(2134)

Module - II
(Functional e-Business System)

Group - C

3. Answer *any three* questions : 4×3
- (a) What are key elements to consider when initiating an e-business project?
 - (b) How can e-business use data analytics to improve their marketing efforts?
 - (c) Explain how social media contributes to e-business branding.
 - (d) How do online career platforms use algorithms to match job seekers with employers?
 - (e) How do customer reviews and ratings impact e-business branding?

Group - D

4. Answer *any two* questions :
- (a) What is Wireless Datagram Protocol (WDP)? How does it support WAP communication? 2+3
 - (b) Explain the characteristics of different generations in Wireless Communication upto 5G. 5
 - (c) How does GPRS differ from traditional circuit-switched mobile data services? 5

Group - E

5. Answer *any three* questions :
- (a) How do website goals influence design decisions? Provide examples of different types of website goals. 3+3
 - (b) Define supply chain management and briefly explain its importance in E-Business. 6
 - (c) Compare and contrast Customer-to-Merchant (C2M) and Peer-to-Peer (P2P) payment systems. 6
 - (d) How do electronic payment systems impact small businesses and consumers in a digital economy? 6
 - (e) Explain how Unified Payments Interface (UPI) works and its role in Peer-to-Peer (P2P) and C2M transaction in India. 3+3
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