

2015  
INFORMATION TECHNOLOGY AND ITS APPLICATION  
IN BUSINESS — GENERAL

First Paper  
[C – 21 – G]  
Full Marks – 50

*The figures in the margin indicate full marks*  
*Candidates are required to give their answers in their own words as far as practicable*

FOR GENERAL CANDIDATES

Group – A

1. (a) What is ASCII? 2  
*Or*  
What is Binary Number System? 2  
(b) Distinguish between Internet and Intranet. 2  
(c) What is IP Address? 2  
*Or*  
What is XML? 2  
(d) What is Virus? 2  
*Or*  
Define Digital Envelope. 2  
(e) Write a note on : 2  
Data Base Management System (DBMS).

Group – B

2. Find out the Decimal equivalent of the following numbers :  
(a)  $(110111)_2 = (?)_{10}$  2  
(b)  $(2456)_8 = (?)_{10}$  2

*Or*

Add the following numbers :

4

$$(1110)_2 + (11)_2 = (?)_2$$

$$(2431)_8 + (2242)_8 = (?)_8$$

3. (a) What is the importance of Firewall? 2  
 (b) Explain the concept of Hacking. 2

**Group – C**

4. (a) Define Primary Key and Secondary Key. 4  
 (b) What is the role of DBA? 2  
 (c) Explain the term 'Field' and 'Record' in DBMS. 2
5. (a) Explain the concept of Primary Storage and Secondary Storage with examples of each. 4  
 (b) State the important functions of compiler. 4

*Or*

- (a) State the advantages of GUI based Operating System. 4  
 (b) What is Cache Memory? 2  
 (c) What is Input Unit? 2
6. (a) Explain the concept of data. 2  
 (b) What is Smart Card? 2  
 (c) Define the term 'KMS'. 2  
 (d) State two qualities of Information. 2
7. (a) Define Satellite Communication. 2  
 (b) Write a note on Wireless broadband. 3  
 (c) Explain the simplex mode of data transmission. 3

*Or*

- (a) State the differences between serial and parallel transmission. 4  
 (b) Write short notes on :  
 (i) Ring Topology 2  
 (ii) Router. 2