



C-14-CM-105/IT-105

4031

BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

DCM—FIRST YEAR EXAMINATION

BASICS OF COMPUTER ENGINEERING

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define the terms 'high-level language' and 'low-level language'.
1½+1½
2. List the characteristics of an algorithm. 3
3. Write the differences between ASCII code and EBCDIC code. 3
4. State the need for an Operating System. 3
5. List the components of a Window. 3
6. Write a short note on uninstalling software using control panel. 3
7. What are Internet and Intranet? 3
8. Define Computer Network. Distinguish between LAN and WAN. 3
9. What is Open Source Software? List any four Open Source Softwares. 3
10. Define Computer Worm. List any four Computer Worms. 3

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PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11.** List and explain the functions of any four input devices and any four output devices. 10
- 12.** (a) Do the following conversions : 3+2
(i) $(110011\ 10)_2$ (_____)₁₀
(ii) $(356\ 12)_8$ (_____)₁₆
(b) List and explain briefly the advantages of Database System. 5
- 13.** List and explain at least five external commands in DOS. 10
- 14.** Give the steps to install a printer using Control Panel. 10
- 15.** (a) Explain about DNS. 5
(b) Explain about URL. 5
- 16.** (a) Explain about Social Network Sites. 5
(b) Explain about Internet Security. 5
- 17.** Describe the following Software Development Life Cycle models : 5+5
(a) Waterfall Model
(b) Spiral Model
- 18.** (a) Compare GSM and CDMA. 5
(b) Explain about Encryption. 5
