C16-CM–**105**

# 6025

## BOARD DIPLOMA EXAMINATION, (C-16)

## OCTOBER/NOVEMBER—2023

## DCME - 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.**   Mention the importance of cache memory.

**2.**   Draw the flowchart to check whether the given number is odd or even.

**3.**   Convert $557_{(8)}$ into hexadecimal number system.

**4.**   Write about the importance of operating system.

**5.**   Define the terms 'File' and 'Folder'.

**6.**   List any three features of Windows desktop.

**7.**   List any three social network sites and search engines.

**8.**   Write any three differences between LAN and WAN.

**9.**   Write any three differences between networking operating system and desktop operating system.

**10.**   Write about the need for network security.

**Instructions :** (1) Answer *any* **five** questions.

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

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**11.** Explain about generations of computers. 10

**12.** *(a)* Write the steps to convert a number from binary to decimal and binary to octal with examples. 5

*(b)* Define database. Write any four differences between flat file database and relational database systems. 5

**13.** Define internal and external commands. Write the syntax of any eight DOS internal commands with examples. 2+8=10

**14.** Explain the procedure for changing resolution, color, appearance, screensaver options of the display. 2+2+3+3=10

**15.** Explain about address format and IP address. 10

**16.** Write short notes on the following : 2+2+3+3=10

*(a)* DNS

*(b)* DHCP

*(c)* MODEM

*(d)* INTRANET

**17.** Explain about any two life cycle models in software engineering. 5+5=10

**18.** *(a)* List any five applications of cloud computing. 5

*(b)* Define the terms *(i)* cloud, *(ii)* virus, *(iii)* worm, *(iv)* encryption and *(v)* CDMA. 5