6025

BOARD DIPLOMA EXAMINATION, (C–16)
OCT/NOV—2018
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. State the importance of cache memory.

2. Draw the flowchart for average of three numbers.

3. Convert $(16.5)_{16}$ into its decimal equivalent.

4. Define operating system and give one example.

5. List any three features of Windows desktop.

6. How to change the date and time on your PC?

7. Differentiate between Internet and Intranet.

8. State the purpose of DHCP.

9. List any three software life cycle models.

10. What is network security?

<center>**PART—B**</center>   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. Explain various generations of computer.

12. Explain any six internal and four external DOS commands.

13. *(a)* What do you mean by disk defragmentation?   3

(b) Explain the procedure of disk defragmentation using system tools.   7

14. *(a)* Explain the role of a modem in accessing the Internet.   5

(b) Explain the installation procedure of a modem using control panel.   5

15. *(a)* Explain wide area network (WAN).   5

(b) Explain the process of sending and receiving e-mail.   5

16. *(a)* Explain any five features of networking operating system.   5

(b) Differentiate between networking OS and desktop OS.   5

17. *(a)* Explain the ASCII coding scheme.   5

(b) Explain the need for software engineering.   5

18. Explain cloud components with a diagram used in cloud computing.

<center>★ ★ ★</center>