C14–IT–**105**

4060

BOARD DIPLOMA EXAMINATION, (C–14)
MARCH/APRIL—2016
DIT—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 hardware and software.

2. Write the algorithm to find the biggest of three numbers.

3. Solve the following :

$$(101101\ 101)_2 \quad (\quad)_8$$

4. State the need for an operating system.

5. Explain how to find a file using search option.

6. Compare between internet and intranet.

7. State the need for computer network.

8. List any five open source softwares.

9. Explain the meaning of a file and folder.

10. Define cyber crime.

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. Explain the generations of computer. 10

12. Explain any seven internal commands in DOS along with syntax and example. 10

13. Explain the procedure for changing resolution, colour, appearance, screen saver options of the display. 10

14. *(a)* Explain the process of sending and receiving E-mail. 5

(b) Describe DNS. 5

15. Define data structures and classify various data structures. 10

16. *(a)* Solve $(ABC)_{16}$ ( )$_2$. 5

(b) Differentiate between Networking OS and Desktop OS. 5

17. Explain the role of search engines with example. 10

18. Explain about encryption process in network security. 10

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