DCCA – 101

I Semester B.C.A. Degree Examination, February/March 2024
(NEP) (Freshers and Repeaters)
COMPUTER APPLICATIONS
Fundamentals of Computers

Time : 2½ Hours Max. Marks : 60

***Instruction** : Answer **all** the Sections.*

SECTION – A

I. Answer **any 6** questions. **Each** question carries **2** marks. **(6×2=12)**

1) What is microcomputer ?
2) State and prove the commutative law using the truth table.
3) What is the anatomy of a computer ?
4) What is a multitasking operating system ?
5) What is dual booting ?
6) What is a file system ?
7) List any two advantages of DBMS.
8) What is a physical address ?
9) What is web browser ? Give an example.

SECTION – B

II. Answer **any 4** questions. **Each** question carries **6** marks. **(4×6=24)**

10) List and explain the characteristics of computer.
11) Convert the following decimal number to a hexadecimal number.
    i) 366 ii) 155 **(3+3)**
12) Explain the steps involved during program execution.
13) Discuss the Unix system structure with a neat diagram.
14) Explain DDL Commands with examples.
15) Briefly explain about DNS.

P.T.O.

SECTION – C

III. Answer **any 3** questions. **Each** question carries **8** marks. **(3×8=24)**

16) a) Write a note on assembly language. **4**

b) State and prove De Morgan's law using truth table. **4**

17) a) Write an algorithm and draw a flowchart to check given number is odd or even number. **5**

b) Explain about mainframe computer. **3**

18) a) What is secondary memory ? **4**

b) Explain various functions performed by an operating system. **4**

19) a) Explain multiprogramming operating system. **4**

b) Explain any two Unix commands with an example. **4**

20) a) What are the roles and responsibilities of DBA ? **4**

b) Explain the structure of HTML with suitable example. **4**
