NJR/KS/18/3031

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination

COMPUTER SCIENCE

(Fundamentals of Information Technology)

Compulsory Paper—2

Time : Three Hours] [Maximum Marks : 50

Note :— (i) **ALL** questions are compulsory and carry equal marks.

(ii) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) What is bus ? Explain various types of bus ; also draw bus diagram. 5

   (b) Do as directed :

   (i) $(39)_{10} = (?)_2$

   (ii) $(105)_{10} = (?)_{16}$. 5

   OR

   (c) Do as directed :

   $(715)_8 = (?)_{10}$

   $(0.375)_{10} = (?)_2$. 5

   (d) What is instruction ? List different types of instruction and one example of each. 5

EITHER

2. (a) Explain working of Hard Disk with well labelled diagram. 5

   (b) Write notes on :

   (i) EPROM

   (ii) EEPROM. 5

   OR

   (c) Differentiate Primary and Secondary storage. 5

   (d) Explain in detail Blu-Ray Disk. 5

EITHER

3. (a) List various types of Printer. Explain Laser printer in detail. 5

   (b) What is an input device ? Explain various types of mouse in detail. 5

   OR

   (c) Write a notes on :

   (i) MICR

   (ii) OCR. 5

   (d) Explain Visual Display Unit (VDU) in detail. 5

EITHER

4. (a) What do you mean by Network Topology ? Explain star topology. Give advantages and disadvantages of it. 5

(b) Write notes on :

(i) Infrared Device

(ii) Blue Tooth. 5

OR

(c) Write a note on Wi-Fi system and modem. 5

(d) Explain the following :

(i) Gateways

(ii) Bridges. 5

5. Attempt **ALL** :

(a) Explain Instruction format. 2½

(b) Explain Pen Drive. 2½

(c) Convert the Hexa Decimal number $(5 \, CB8)_{16}$ to its binary equivalent. 2½

(d) Explain the use of Repeater in networking. 2½