This question paper contains **3** printed pages]

W—411—2018

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2018

(CBCS Pattern)

COMPUTER SCIENCE

Paper VIII

(Computer Network)

(MCQ & Theory)

(Saturday, 8-12-2018)   **Time : 2.00 p.m. to 4.00 p.m.**

Time—2 Hours   *Maximum Marks—40*

N.B. :— (i) *All* questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Draw neat well labelled diagrams if necessary.

MCQ

1.   Attempt the following :   10

(i)   In TCP/IP model .... layer is *not* present.

(a)   Network   (b)   Transport

(c)   Data link   (d)   Session

(ii)   The full form of TCP is :

(a)   Transfer Control Protocol

(b)   Transmission Control Protocol

(c)   Transmit Code Protocol

(d)   Transmit Code Program

P.T.O.

(*iii*) .... is *not* a topology.

    (*a*)   Hybrid topology   (*b*)   Star topology

    (*c*)   Mesh topology   (*d*)   Base topology

(*iv*) .... is *not* a guided media.

    (*a*)   Co-axial cable   (*b*)   UTP cable

    (*c*)   Infra red   (*d*)   Fibre optics cable

(*v*) In telephone system .... components are present.

    (*a*)   End office   (*b*)   Toll connecting trunk

    (*c*)   Local loop   (*d*)   All of these

(*vi*) Full form of PSTN is :

    (*a*)   Postal Service Telephone Network

    (*b*)   Private Service Telephone Network

    (*c*)   Public Switched Telephone Network

    (*d*)   Public Service Telephone Network

(*vii*) Full form of Modem is :

    (*a*)   Modulator demodulator   (*b*)   Modulation demodulation

    (*c*)   Modular demodular   (*d*)   None of these

(*viii*) DNS stands for :

    (*a*)   Daily News Service   (*b*)   Domain Name Service

    (*c*)   Data Name Service   (*d*)   Dialog New Service

(*ix*) .... can be used to authenticate the sender and receiver of the message to each other.

    (*a*)   Firewall   (*b*)   Modem

    (*c*)   Cryptography   (*d*)   Router

(*x*) CDMA stands for :

    (*a*) Code Division Multiple Access

    (*b*) Coded Data Multiple Access

    (*c*) Coded Data Modular Access

    (*d*) Code Data Model Access

Theory

2. (*a*) Discuss applications of computer network. 5

    (*b*) Explain data transmission modes. 5

Or

    (*c*) Explain OSI/ISO reference model. 5

    (*d*) Explain mesh topology and ring topology. 5

3. (*a*) Explain wireless access points and routers. 5

    (*b*) Explain modems in detail. 5

Or

    (*c*) Explain magnetic media and twisted pair. 5

    (*d*) Explain Bluetooth in detail. 5

4. (*a*) Explain mobile telephone system. 5

    (*b*) Explain web server and web browser. 5

Or

    (*c*) Explain cryptography in detail. 5

    (*d*) Explain computer security in detail. 5

51545163F0750497E829DE1BC3C43A63