This question paper contains **2** printed pages]

## AA—35—2019

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2019**

**(Revised Course)**

COMPUTER SCIENCE

(S-4.3)

(Computer System Security)

**(Thursday, 17-10-2019)**                    **Time : 2.00 p.m. to 5.00 noon**

*Time—3 Hours*                                   *Maximum Marks—80*

*N.B.* :— (*i*)  Attempt *All* questions.

(*ii*)  Assume suitable data, if necessary.

1.  Attempt the following :                                           20

    (*a*)  Explain different inputs in the development of a policy.

    (*b*)  Explain active attacks.

    (*c*)  What is cryptography ? Explain.

    (*d*)  What is firewall ? Describe design goals for a firewall.

2.  (*a*)  Describe elements of standards.                             8

    (*b*)  Explain the various security services.                      7

                                    *Or*

    (*c*)  Explain the substitution techniques.                        8

    (*d*)  Describe the phases of a typical virus during its life time.  7

3.  (*a*)  What is a worm ? Describe the state of worm technology.      8

    (*b*)  Explain the password management policy.                     7

                                    *Or*

    (*c*)  Explain in detail policy creation.                          8

    (*d*)  Explain the types of firewalls.                             7

4.  (*a*)  Explain the concept of trusted systems.                     8

    (*b*)  Explain regulatory considerations.                         7

                                                            P.T.O.

*Or*

(*c*) Describe the general model of access control. 8

(*d*) Describe the standard access definition policy. 7

5. Write short notes on any *three* : 15

(*a*) Remote access policy

(*b*) Elements of guideline

(*c*) Cryptanalysis

(*d*) Malicious programs

(*e*) Firewall configurations.