Total No. of Questions—**4**] [Total No. of Printed Pages—**2**

Seat No.	

[4966]-4006

M.C.A. (Commerce Faculty) (IV Sem.) EXAMINATION, 2016

407 : CYBER LAW AND INFORMATION SECURITY

(2013 PATTERN)

Time : Three Hours **Maximum Marks : 50**

N.B. **:—** (*i*) Neat diagrams must be drawn whenever necessary.

(*ii*) Figures to the right indicate full marks.

1. Define and explain in brief of the following (any *seven*) : [7×2=14]

(*a*) Duties of subscriber

(*b*) Digital signature certificate

(*c*) Cryptanalysis

(*d*) Firewall

(*e*) Need of security

(*f*) Industrial design

(*g*) Stegnography

(*h*) Copyright Act.

2. Discuss the following (any *three*) : [3×4=12]

(*a*) Explain TLS handshake protocol.

(*b*) What is the role of controller of certifying authorities.

(*c*) Explain polyalphabetic substitution cipher technique of encryption with example.

(*d*) Explain the mode of operation of IP security.

P.T.O.

3. Discuss the following (any *three*) : [3×4=12]

(*a*) Explain procedure for filling of patent with suitable example.

(*b*) Write a short note on symmetric cipher model.

(*c*) Explain web server architecture.

(*d*) Explain rotor machine in classical encryption technique.

4. Discuss the following (any *three*) : [3×4=12]

(*a*) What are the various terms about electronic governance listed under the IT Act.

(*b*) Explain RSA algorithm in detail with example.

(*c*) Explain Rail-Fence technique with example.

(*d*) Discuss Hill Cipher technique of encryption with example.