S-747

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MIT(CS)-102/CEGCS-02

Cyber Security Techniques

(MCA/MSCCS/PGDCS/CEGCS)

3RD/1ST Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. Answer the following :

    a.   What is IDS? What are the different components of an IDS? (6)

    b.   What are the different characteristics of an IDS? (6)

    c.   What is PGP and MIME? Explain. (7)

Q.2. Answer the following :

    a.   Explain secure software development. (3)

    b.   Explain McCumber Cube. (4)

    c.   Define maturity model. (4)

    d.   What is a Full-Simulation exercise? (4)

    e.   Write a short note on information security assurance. (4)

Q.3. Answer the following :

    a.   What is social engineering? (6)

    b.   What is reverse social engineering? (6)

    c.   Explain different types of social engineering attacks. (7)

Q.4.   Answer the following :

a.   Discuss importance of national cyber security policies. (4)

b.   Differentiate between Malware, Botnet, Virus and Worms? (3)

c.   Explain IP Sec? (4)

d.   What is physical security? (4)

e.   What is an incident? Write down steps to report an incident? (4)

Q.5.   Answer the following :

a.   How exploit kit infect you? How one can prevent drive by download attacks in exploit kit scenario? (6)

b.   What is OCTAVE. (4)

c.   Write a note on COBIT. (4)

d.   Write a note on DSCI. (5)

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Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1. Answer the following :
   a.   What are the basic elements of policy? (4)
   b.   What are types of security policy? (4)

Q.2. Define an attack? Discuss various types of attacks.

Q.3. Explain lifecycle of Incident Handling along with diagram?

Q.4. What do you understand by firewalls? Explain along with its types and diagram?

Q.5. Discuss various initiatives of Government of India for achieving information security assurance.

Q.6.   Answer the following :

    a.   What is HTTP and HTTPS? (2)

    b.   Explain application security? (4)

    c.   What is a webshell? (2)

Q.7.   Answer the following :

    a.   Explain Risk and Risk Management. (4)

    b.   Write short note on importance of cyber risk management. (4)

Q.8.   Answer the following :

    a.   Write a note on cyber security initiatives in India. (4)

    b.   Discuss Roles and functions of CERT-In. (4)

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