Voc(S-V) — BCA

(DSE – 2)

2023

Time : 3 hours

Full Marks : 70

Pass Marks : 32

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups as directed.

Group – A
(Compulsory)
(Objective Type Questions)

1. Choose the correct option of the following :

$1 \times 5 = 5$

(a) Phishing is a form of :

   (i) Impersonation

   (ii) Spamming

   (iii) Identify theft

   (iv) Scanning

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(Turn over)

(b) What is most important Activity in system Hacking ?

(i) Information gathering

(ii) Cracking the passwords

(iii) Escalating privilage

(iv) Covering tracks

(c) What is sequences of ATCP connection ?

(i) SYN – ACK – FIN

(ii) SYN – SYNACK – ACK

(iii) SYN – ACK

(iv) SYN – SYN – ACK

(d) Which of the following refer to technique used for verifying the integrity of message ?

(i) Digital signature

(ii) Decryption algorithm

(iii) Protocol

(iv) Message Digest

(e) Which one of the following usually used in the process of wi-fi hacking ?

(i) Aircracking

(ii) Wire shark

(iii) Norton

(iv) All of these

2. Fill in the blanks of the following :   1×5 = 5

   (a) Lock of access control policy is a
       _____.

   (b) The Release of message contents and traffic Analysis are two types of _____ attacks.

   (c) The OSI security Architecture focuses on security attacks, _____ and services.

   (d) Possible threats to any Information cannot be _____.

   (e) Compromising confidential information comes under _____.

Group – B
(Short-answer Type Questions)

Answer any **four** questions of the following :

                                    5×4 = 20

3. What is Cryptography ? Explain the origin of cryptography.

4. What is Information Security ?

5. Explain the memory and Address Protection of threat.

6. Explain the type of database security.

7. Explain the Program Security.

8. Describe the Cyber Security.

Group – C

(Long-answer Type Questions)

Answer any **four** questions of the following :

$$10 \times 4 = 40$$

9. Explain the Digital signature and Digital certificates.

10. What is Firewalls ? Explain the network security principle.

11. What is DES ? Explain the types of DES.

12. Describe the Substitution ciphers and transposition ciphers.

13. Describe the Security Architecture in Information Security.

14. Explain the following :

    (a) Computer Criminal

    (b) Data leakage

    (c) Cyber attack

    (d) Response code

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