

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: MCA
BRANCH: MCA**

**SEMESTER : III
SESSION : MO/2022**

SUBJECT: CA521 CYBER SECURITY

TIME: 3:00 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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| Q.1(a) What is web based attack? | [2] |
| Q.1(b) Explain Denial of Service. | [3] |
| Q.1(c) Illustrate all the layers of cyber security. | [5] |
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| Q.2(a) What is sniffing? | [2] |
| Q.2(b) What is the use of firewall? | [3] |
| Q.2(c) Explain the important Phases of Information Security Audit and Strategies. | [5] |
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| Q.3(a) What is Simple Object Access Protocol? | [2] |
| Q.3(b) Explain the characteristics of Web services. | [3] |
| Q.3(c) Differentiate between Footprinting and scanning. | [5] |
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| Q.4(a) Explain Malware infection. | [2] |
| Q.4(b) What do you understand by Network Session Analysis? | [3] |
| Q.4(c) Explain Intrusion detection and Prevention Techniques. | [5] |
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| Q.5(a) What is Breach of confidentiality and privacy? | [2] |
| Q.5(b) Explain Access Control, and Authentication. | [3] |
| Q.5(c) Explain any two important provisions under the IT Act, 2000 for cyber crimes. | [5] |

:::25/11/2022:::E