



**APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY**

**08 PALAKKAD CLUSTER**

Q. P. Code: CSE0820311C-I

(Pages: 2)

Name: .....

Reg. No: .....

**THIRD SEMESTER M.TECH. DEGREE EXAMINATION FEBRUARY 2021**

**Branch: Computer Science and Engineering Specialization: Computer Science and Engineering**

**08 CS 7011(C): ETHICAL HACKING**

(Common to CSE)

Time: 2 hour 15 minutes

Max. Marks: 60

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q.no.	Module 1	Marks
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- |     |  |   |
|-----|--|---|
| 1.a | What is computer abuse amendments act? List out the offences that are punishable under this act (any 3). | 3 |
|-----|--|---|

Answer b or c

- |   |   |   |
|---|---|---|
| b | If the employee of a company is not trained properly and held accountable for password management then their computer might be easily be broken/hacked.<br>By considering this problem, explain how we can manage such threats that are faced by the organizations? | 6 |
| c | What are the steps that are included in DID efficiency calculation? Explain them in detail.   | 6 |

Q.no.	Module 2	Marks
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|-----|--|---|
| 2.a | What are the different flags used in TCP header? Mention the use of each flag. | 3 |
|-----|--|---|

Answer b or c

- |   |   |   |
|---|---|---|
| b | What is port scanning? Explain any 2 port scanning techniques in detail.  | 6 |
| c | Manu sent an email to Sonu. But Sonu was not able to identify the sender.<br>Name and explain the method that was used by Manu to hide his details while sending the message to Sonu? | 6 |

<b>Q.no.</b>	<b>Module 3</b>	<b>Marks</b>
<b>3.a</b>	Write a sample program that demonstrates function with return values in batch file programming?	<b>3</b>

**Answer b or c**

- |          |   |          |
|----------|---|----------|
| <b>b</b> | Explain application proxy firewall? Mention its advantages and disadvantages. | <b>6</b> |
| <b>c</b> | Differentiate between packet filtering and packet inspection firewall?        | <b>6</b> |

<b>Q.no.</b>	<b>Module 4</b>	<b>Marks</b>
<b>4.a</b>	List and explain any 3 automated tools used by attacker to do various attacks on victim's system?	<b>3</b>

**Answer b or c**

- |          |  |          |
|----------|--|----------|
| <b>b</b> | Explain the type of attack faced on the stack data structure? Also explain the uses of 2 pointers used in stack. | <b>6</b> |
| <b>c</b> | With an example explain how SQL injection attacks are done by attacker.  | <b>6</b> |

<b>Q.no.</b>	<b>Module 5</b>	<b>Marks</b>
<b>5.a</b>	List the various components of IT infrastructure.	<b>4</b>

**Answer b or c**

- |          |  |          |
|----------|--|----------|
| <b>b</b> | Suggest a method to prevent and detect insider computer fraud. Explain the method in detail.               | <b>8</b> |
| <b>c</b> | Is there any method to demonstrate whether network infrastructure is adequate or not? Justify your answer. | <b>8</b> |

<b>Q.no.</b>	<b>Module 6</b>	<b>Marks</b>
<b>6.a</b>	What is computer forensics and journaling?	<b>4</b>

**Answer b or c**

- |          |  |          |
|----------|--|----------|
| <b>b</b> | With a neat diagram explain in detail about the risk assessment process.                                       | <b>8</b> |
| <b>c</b> | List the components of artificial neural network. Explain how neural network can be used to detect the frauds? | <b>8</b> |