

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Physical Security(CSIB355)	Semester: 5th
Programme: Btech CSF	
Time: 03 hrs.	Max. Marks: 100

SECTION A

S. No.		Marks	CO															
Q 1	List down and explain the issues related to protective design	4	CO1															
Q2	Name the group under which the business class buildings fall for fire prevention. Name the other subdivisions with examples	4	CO2 CO3															
Q3	Write the quantifying asset value with the numerical value associated with the following:	4	CO2 CO3															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Asset</th> <th style="width: 30%;">Value</th> <th style="width: 40%;">Numeric value</th> </tr> </thead> <tbody> <tr> <td>Electrical system</td> <td></td> <td></td> </tr> <tr> <td>Architectural</td> <td></td> <td></td> </tr> <tr> <td>IT/communication</td> <td></td> <td></td> </tr> <tr> <td>Site</td> <td></td> <td></td> </tr> </tbody> </table>	Asset	Value	Numeric value	Electrical system			Architectural			IT/communication			Site				
Asset	Value	Numeric value																
Electrical system																		
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IT/communication																		
Site																		
Q4	How many factors are there in risk assessment approach. Write the specification of each	4	CO4															
Q5	Briefly describe the following terms : a) Tailgating b) Classification of survey recommendation	4	CO1 CO3 CO2															


SECTION B

Q 6	Pacific estate is a construction company which builds housing society .What are the measures needed to be considered for an effective security and safety through lighting	10	CO4 CO1
Q7	SecureMax is a new startup in the field of physical security. It works in the area of producing intruder-sensing alarms. List down the categories according to which they would produce the alarms and explain the specifications of each categorization.	10	CO1 CO4 CO3 CO2
Q8	a) Write the difference between Risk and vulnerability .Give an example too b) Which of the following threat doesn't fall in the category of physical threat 1)Vandalism 2)Insider threat 3)Dos 4)None of above	10	CO1

	<p>c) How do economics ensure the relationship between physical security & cyber security? Write only 2 points</p> <p>d) How can insider threat effect an organization? Write only 2 points</p>		
Q9	<p>a) List down the layers of physical security with the components used in each security layer to achieve it. Write a scenario to justify your answer</p> <p>b) What do you understand by all inclusive approach? Where it is needed to be considered?</p> <p style="text-align: center;">OR</p>	10	CO1 CO2
	<p>a) Write & explain about different views of security.</p> <p>b) Define vulnerability assessment with a diagram and explain a scenario to justify your answer.</p>		CO4
SECTION-C			

<p>Q 10</p>	<p>1st Floor Floor Plan</p> <p>2nd Floor Floor Plan</p> <p>3rd Floor Floor Plan</p> <p>4th Floor Floor Plan</p> <p>Premises site area 284.13m² Building area 644.89m² Building structure (steel framed, 4 floors, fireproofed building)</p>	<p>20</p>	<p>CO1 CO2 CO3 CO4</p>
	<p>The above diagram is the layout of “Gurukul: the foundation” a nursery school .The institute has hired the security company for the implementation and maintenance of the physical security . Considering the nine points of security concern and their checklist write down the treats concerning physical security audit. Prepare a report for the physical security audit .What will be the security measures taken by the company for the protection of the building as well as the occupants.</p>		
<p>Q11</p>	<p>“Safeguard” is a security company which provides and maintains the services related to security. Write the requirements for the following which a company need to have</p> <ol style="list-style-type: none"> Types of security personnel Roles and responsibility of a security personnel Tools & techniques for security Various alarm systems <p>OR</p>	<p>20</p>	<p>CO1 CO2 CO4 CO3</p>
	<p>Safety guard is a firm that produces security doors . Suppose you are the expert coordinator appointed by the firm .Write down the recommendations as per the</p>		<p>CO1 CO2</p>

	security concern and parameters according to which the customers will be guided.		CO4 CO3
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SECTION A			
S. No.		Marks	CO
Q 1	List down and explain the issues related to physical threats	4	CO1
Q2	Explain the classification of fire classes and their extinguishing measures.	4	CO2

			CO3															
Q3	Write the quantifying asset value with the numerical value associated with the following:	4	CO2 CO3															
	<table border="1"> <thead> <tr> <th>Asset</th> <th>Value</th> <th>Numeric value</th> </tr> </thead> <tbody> <tr> <td>Fire alarm system</td> <td></td> <td></td> </tr> <tr> <td>Plumbing & gas system</td> <td></td> <td></td> </tr> <tr> <td>Structural system</td> <td></td> <td></td> </tr> <tr> <td>Utility system</td> <td></td> <td></td> </tr> </tbody> </table>	Asset	Value	Numeric value	Fire alarm system			Plumbing & gas system			Structural system			Utility system				
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Fire alarm system																		
Plumbing & gas system																		
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Q4	How many task are there in assessment approach. Write their specification	4	CO4															
Q5	Briefly describe the following terms : c) Physical Security audit d) Custodian	4	CO1 CO3 CO2															
SECTION B																		
Q 6	Malabar is a security company which builds housing society .What are the measures needed to be considered for an effective security and safety through alarms	10	CO4 CO1															
Q7	“Secugenius” is a security company which provides and maintains the services related to security. Write the requirements that the company need to acquire in terms of security personnel and various tools and techniques required for security .	10	CO1 CO4 CO3 CO2															
Q8	<p>a)Write the difference between Physical and Network security .Give an example too</p> <p>b) How would you quantify the following asset value:</p> <p>a) widespread severe injuries :</p> <p>b) minor injuries or minor impairment of core functions and processes :</p> <p>c) a slight impact on core functions and processes for a short period of time:</p> <p>d) Structural system :</p> <p>c)How does technology ensure the relationship between physical security & cyber security? Write only 2 points</p> <p>d)Explain CBR related issues? Write only 2 points</p> <p style="text-align: center;">OR</p>	10	CO1 CO2															
	<p>a)Explain the categories according to which survey recommendation is classified. Explain the positive & negative aspects as well</p> <p>b)Explain the mitigation and exacerbating conditions for the following threats :</p> <p>1) Nuclear Device</p> <p>2) Biological agents</p> <p>3) Cyber terrorism</p> <p>4) Agriterrorism</p>																	
Q9	<p>a)List down the zones of physical security</p> <p>b) What are the methods to implement a good physical security design?</p> <p>c)Explain two issues if cyber security & physical security are not integrated</p> <p>d)Write any two points for fire prevention in terms of construction of a building.</p>	10	CO1 CO2 CO4															

SECTION-C

Q 10



The above diagram is the layout of “Victory park” which has courts and stadium for organizing sport. The institute has hired the security company for the implementation and maintenance of the physical security .

Considering the nine points of security concern and their checklist write down the treats concerning physical security audit. Prepare a report for the physical security audit .What will be the security measures taken by the company for the protection of the park as well as the occupants.

20

CO1
CO2
CO3
CO4

Q11

“Secugenious” is a new startup in the field of physical security. It works in the area of producing alarms for the concept of intrusion detection. List down the categories according to which they would produce the alarms and explain the specifications of each categorization

OR

TATA securities has got the tender to provide security measures to make a village smart and secure . You are been appointed by the company as a team lead .What are the measures will be taken by you to maintain security in the village. Prepare the vulnerability assessment report and the security measures taken by you in order to make the village secure .

20

CO1
CO2
CO4
CO3

CO1
CO2
CO4
CO3