

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech CSE+SCF

Subject (Course): Physical Security

Course Code : CSIB 355

No. of page/s: 3

Semester – V

Max. Marks: 100

Duration: 3 Hrs

**Section-A**

Ques1. Chose the correct option

[5\*2]

1. Which of the following driver ensures that the relationship of physical security and cyber security stays?
  - a) Technology
  - b) Policy
  - c) Economics
  - d) All of the above
  
2. When, using the key control system, there is a need to eliminate the risk of password sharing and identify who access the system, what method is best suitable?
  - a) Alarm system
  - b) Lighting system for detection
  - c) Motion activated video camera
  - d) Security Guard
  
3. Which among the following is an ISO standard for physical security?
  - a) ISO 27002:2005
  - b) ISO 2700:2005
  - c) ISO 37002:2005
  - d) ISO 27002:2015
  
4. What is vulnerability?
  - a) The expressed potential for the occurrence of a harmful event such as an attack.
  - b) The potential that a given threat will exploit vulnerabilities of an asset or group of assets and thereby cause harm to the organization.

- c) A weakness that makes target susceptible to an attack
- d) None of the above

5. Vibration detectors are used for
- a) Identification
  - b) Object/spot detection
  - c) Detect anomaly in equipment
  - d) All of the above

Ques2. Enlist the types of fire extinguisher and the types of fire in which they are used for. [5+5]

### Section-B

**Each Question carries 10 Marks**

Ques3. (a) Why Lighting is considered as an important control for an organization? [5]

(b) What do you mean by physical security assessment? and when is the best time(s) to conduct a security audit in an organization? [2+3]

Ques4. Describe any **five** Intrusion alarm system used in residential/commercial/industrial or military properties for protection against burglary (theft) or property damage. [10]

Ques5. Name the **event** which harms an organization, its facilities, its finances or its reputation within a short period of time and explain the strategies designed to manage such an event to help the organization deal with a sudden and significant negative effect? [10]

Ques6. Write roles and responsibilities of a security guard. Also, explain the differences between security guard and security personnel. [5+5]

### Section-C

**Each Question carries 20 Marks**

Ques7. Suppose you're looking to invest in fire or security rated doors or grilles for your business premises. Explain the standard (in detail) which you would like to follow to ensure safety of your physical security products against unauthorized access. [20]

**Hint: LPS**

Ques8. Explain any **five**: [5\*4]

- a) Mantrap
- b) Fixed temp. heat detectors

- c) Photoelectric smoke detector
- d) Lumen and watt
- e) Metal Halide lamp
- f) Electro-Fence
- g) Surgeprotector

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**Section A**

Ques1. Chose the correct option

[5\*2]

1. Which of the following threat does not fall into the category of physical threat?
  - a) Vandalism
  - b) Insider threat
  - c) Dos
  - d) None of the above
2. Which of the following would you *not* want to use in conjunction with a server room?
  - a) Dry pipe fire control
  - b) Smoke detectors
  - c) Drop ceilings
  - d) Surge protection
3. Which of the following is the **most** commonly used physical deterrent?
  - a. Fencing
  - b. Locks
  - c. CCTV
  - d. Security guards
4. Which of the following fits in the category of a power excess?
  - a. Faults and blackouts
  - b. Spikes and surges
  - c. Sags and brownouts
  - d. Noise and EMI
5. Which of the following statements about CCTV is *not* true?
  - a. CCTV is a good example of a deterrent system.
  - b. CCTV is a good example of an automated intrusion- detection system.
  - c. CCTV is effective in deterring security violations.

d. CCTV is a good example of a detection system.

Ques2. Enlist the types of fire extinguisher and the types of fire in which they are used for. [5+5]

### **Section-B**

#### **Each Question carries 10 Marks**

Ques3. Name the event which harms an organization, its facilities, its finances or its reputation within a short period of time and explain the strategies designed to manage such an event to help the organization deal with a sudden and significant negative effect? [10]

Ques4. Why the organization's computer facility's location is important? What are the security measures can be taken to ensure the health of computer systems? [10]

Ques5. Explain any five type of fences used in organization. [10]

Ques6. Elaborate various steps involved in conducting a physical security assessment/audit? [10]

### **Section-C**

#### **Each Question carries 20 Marks**

Ques7. Explain Loss Prevention Standard (in detail) to evaluate the resistance offered by various physical security products against unauthorized access. [20]

Ques8. Explain any **five**: [5\*4]

- a) Rate-of-rise heat detectors
- b) ionization smoke detectors
- c) Turnstiles
- d) Lumen and watt
- e) CCTV
- f) HVAC

