

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B. Tech CSE+CSF

Semester – VII

Subject (Course): IT Business Continuity & Disaster Recovery Planning

Max. Marks : 100

Course Code :CSIB 446

Duration : 3 Hrs

No. of page/s: 2

Note: All questions are compulsory.

Section A contains 2 questions of 10 marks each.

Section B contains 4 questions of 10 marks each.

Section C contains 2 questions of 20 marks each.

SECTION A

Q 1) Write full form of the following and explain these terms also: (2*5=10 marks)

a) SAN b) NAS c) BIA d) RFP e) RFQ

Q 2) Choose the correct option: (2*5=10 marks)

1) Uncertainty about outcomes that can be either positive or negative is known as:

a) Hazard b) Risk c) Speculation d) Adverse selection

2) An organization recently completed a risk assessment. Based on that, it chose to purchase insurance to cover possible losses. This approach is known as:

a) Avoidance of risk b) Acceptance of risk c) Transfer of risk d) Reduction of risk

3) Inputs for risk assessment are:

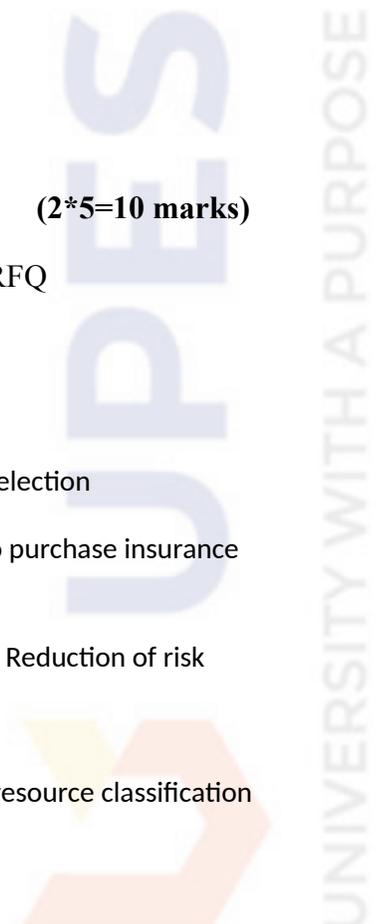
a) Threat, asset, vulnerability b) Criticality and sensitivity of assets, resource classification

c) Both a and b d) None of these

4) Outputs for Business Impact Analysis:

a) Impact, likelihood counter measures controls

b) Strategy for Business Continuity & Recovery, Criticality prioritization, RTO, RPO etc.



c) Both a and b

d) None of the above

5) You should stay in the designated meeting area after an earthquake until:

a) You feel it is safe to leave

b) You see co-workers leaving

c) You are instructed by a supervisor to leave

d) Can't say

SECTION B

Q 3) What are the different data backup types and data backup methods. Explain.
(5+5=10 marks)

Q 4) Explain the following terms with examples: **(2*5=10 marks)**

a) Hot site

b) Cold site

c) Warm site

d) Mobile site

e) Reciprocal site

Q 5) Explain all the five phases of Business Continuity Management and Disaster Recovery.
(5+5=10 marks)

Q 6) Explain business requirements, functional requirements, technical requirements in project definition.
(10 marks)

SECTION C

Q 7) i) Explain the different phases of disaster with the help of examples. **(10 marks)**

ii) What do you understand by Business Continuity & Disaster Recovery? Explain different types of disaster.
(5+5=10 marks)

Q 8) Imagine you are a manager responsible for the business continuity management program for a major mobile telecoms company based in Hanover, Germany. You are part of a management team responsible for ensuring the safety and security of over 6,000 employees and ensuring they are able to continue providing a much-needed service to nearly 8 million customers. Now picture the chaos that would ensue if there was a fire at an important site that caused a service outage affecting fixed line telephony and ADSL across a large region of the country. What would you do to continue the business as normal?
(20 marks)

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SECTION A

Q 1) Write full form of the following and explain these terms also: (2*5=10 marks)

a) ACS b) ERT c) SLE d) ARO e) SAN

Q 2) Choose the correct option: (2*5=10 marks)

1) Arrange the different phases of disaster in correct order:

a) Emergency response phase, Crisis phase, restoration phase, recovery phase

b) Crisis phase, emergency response phase, restoration phase, recovery phase

c) Crisis phase, emergency response phase, recovery phase, restoration phase

d) Emergency response phase, Crisis phase, recovery phase, restoration phase

2) Business enablers are:

a) Process b) People c) Technology d) All of the above

3) Risk management is a responsibility of the _____

a) Customer b) Investor c) Developer d) Project team

4) What is Risk?

- a) Negative consequence that could occur
- b) Negative consequence that will occur
- c) Negative consequence that must occur
- d) Negative consequence that shall occur

5) What are the different types of risk may occur when you developed a software?

- a) Risks associated with business aspect
- b) Risks associated with project
- c) Risks associated with technical aspect
- d) All of the above

SECTION B

Q 3) How many phases are there in BCM & DR. Explain all the phases. **(10 marks)**

Q 4) Explain the difference between Risk Assessment and Business Impact Analysis. What are the benefits of BIA? **(6+4=10 marks)**

Q 5) Explain the following terms with examples: **(2*5=10 marks)**

- a) Hot site
- b) Cold site
- c) Warm site
- d) Mobile site
- e) Reciprocal site

Q 6) Explain business continuity planning lifecycle with the help of diagram. **(10 marks)**

SECTION C

Q 7) Imagine you are a manager responsible for the business continuity management program for a major mobile telecoms company based in Hanover, Germany. You are part of a management team responsible for ensuring the safety and security of over 6,000 employees and ensuring they are able to continue providing a much-needed service to nearly 8 million customers. Now picture the chaos that would ensue if there was a fire at an important site that caused a service outage affecting fixed line telephony and ADSL across a large region of the country. What would you do to continue the business as normal? **(20 marks)**

Q 8) i) How business continuity differs from disaster recovery? **(5 marks)**

ii) What is the purpose of using ISO 22301 standard. Explain all the clauses of this standard also. **(15 marks)**

