

TE-IT | Sem V | e-scheme | 25/05/23

Time: 3 hours

Max. Marks: 80

INSTRUCTIONS

- (1) Question 1 is compulsory.
- (2) Attempt any **three** from the remaining questions.
- (3) Draw neat diagrams wherever necessary.

Q1

5 marks each

- a) Explain Security Services and mechanisms to implement it.
- b) Compare HMAC and CMAC
- c) Explain different NAC enforcement methods
- d) Explain SSH protocol stack in brief

Q2

10 marks each

- a) Explain Playfair cipher with example
- b) Describe different Block Cipher modes

Q3

10 marks each

- a) State firewall design principles and its types with advantages.
- b) Describe different types of protocol offered by SSL.

Q4

10 marks each

- a) What is Network access control? Discuss the elements present in this context.
- b) Explain Kerberos Protocol in detail.

Q5

10 marks each

- a) Explain the working of IPsec in its different mode.
- b) What is Network Management Security? Explain SNMP V3.

Q6

10 marks each

- a) Explain IDS and its types in detail.
- b) Define Malware. Explain at least five types with example.

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MAX MARKS:80

- N.B. 1. Question No 1 is compulsory.
 2. Solve any **three** questions out of remaining five questions.
 3. Assume suitable data if necessary.
 4. Figures to right indicate marks.

Q. 1. Solve any **four** out of five.

(4*5=20)

- Describe a Woman Entrepreneur and state the steps government should take to encourage women entrepreneurs?
- List different methods of acquisition.
- Write about Scientific management. Explain Taylor's four principles of scientific management.
- Write a note on Supply Chain Management
- Compare: Manager Vs Entrepreneur

Q. 2.

- Describe Entrepreneurial motivation and explain different ways an entrepreneur can motivate his employees. (10)
- Write a detailed report on factors to be considered when starting a new business. (10)

Q. 3.

- List different factors that can result in failure of a new venture. (10)
- State and explain with examples indicating the features of a good business plan. (10)

Q. 4.

- Define E-commerce and explain different types of E-commerce. (10)
- Explain with example the following statement: E-commerce can result in globalization of the business activity. (10)

Q. 5.

- Define an ERP. List the different features an ERP should have for an educational institute software. (10)
- Discuss the core and extended components of ERP system. (10)

Q. 6.

- Enlist and explain the different sources of Finance for enterprises. (10)
- Explain procurement and E-Procurement and describe the components of e-Procurement. (10)

TE-IT | Sem V | C-scheme | 31/05/2023

(3 Hours)

[Total: 80 Marks]

- Note : (1). Question number 1 is compulsory.
(2). Attempt any three questions from the remaining.
(3). Assume suitable data wherever necessary.

Q1 Solve any Four out of Six.

- a) Explain the characteristics and nature of software. 05
- b) Describe the advantages and limitations for large sized software projects? 05
- c) Explain the steps involved in SQA Plan? 05
- d) Discuss about the principles of user interface design steps? 05
- e) Explain 3 P's in software project spectrum? 05
- f) Short note on Mc-Calls Quality factors? 05

- Q2a) Explain the Principles of Agile methodology? Discuss the difference between Agile and Evolutionary Process Model? 10
- b) Explain V-Model in details? 10

- Q3a) Explain characteristics of SRS? Build an SRS Document for online student feedback system? 10
- b) What is Feasibility Study? Discuss the different types of feasibility study. 10

- Q4a) Explain LOC and Function Point estimation technique in detail? 10
- i) Explain different types of coupling and cohesion? 10

- Q5a) Explain Risk Mitigation, Monitoring, and Management (RMMM) plan. 10
- b) Explain change control process in SCM in detail? 10

- Q6a) What is a risk? Explain different types of risk in details? 10
- b) Explain software testing strategy and its techniques? 10

17/11/2019) ADMIT | 02/06/23

(3 Hours)

[Total Marks : 80]

- N.B.:**
1. Question no. 1 is compulsory.
 2. Attempt any Three from out of remaining Five questions.
 3. Assume suitable data wherever necessary.
 4. Figures at right indicates full marks.

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|-----|---|--|----|
| Q 1 | a | Explain challenges in ETL functions. | 5 |
| | b | Differentiate between Star and Snowflake Schema | 5 |
| | c | Explain Query processing in detail. | 5 |
| | d | Write a note on Mandatory Access Control. | 5 |
| Q 2 | a | Explain Discretionary Access Control with grant option. | 10 |
| | b | Explain the concept immediate data extraction and deferred data extraction in data warehouse with suitable example. | 10 |
| Q 3 | a | Explain external sort merge algorithm with proper example and required number of block transfer and seek cost. | 10 |
| | b | What is big data? Explain in detail types and characteristics of big data. | 10 |
| Q 4 | a | Draw and Explain Enterprise and federated data warehouse architectures. | 10 |
| | b | What is mean by Distributed databases? List and explain types of distributed databases. | 10 |
| Q 5 | a | Consider a data warehouse for weather related data like region, date and temperature. Using this example analyse the following OLAP operations 1)slice 2)dice 3)rollup 4)drill down 5)pivot. | 10 |
| | b | Explain in brief the CAP theorem and BASE property of NOSQL with suitable diagram | 10 |
| Q 6 | | Write Short Note on: | |
| | a | Data loading techniques in data warehouse | 10 |
| | b | Temporal and Spatial Databases | 10 |