

Time: 3 hours

Max. Marks: 80

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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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TIME:03 HRS

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)

30718

Page 1 of 1

(3 Hours)

(Total Marks: 80)

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

- Q1.**
- i) How to declared variables in ES6? (5)
 - ii) Differentiate between ES5 and ES6. (5)
 - b) Explain React component life cycle. (10)
- Q2.**
- a) Explain Flux architecture in detail. (10)
 - b) Explain Promises in ES6 with an example. (10)
- Q3.**
- a) Explain File System of NodeJs in detail. (10)
 - b) Write a stepwise process to create an APP using ReactJS to print "Hello World". (10)
- Q4.**
- a) What is ExpressJS. Explain features of ExpressJS. (10)
 - b) What is DNS? Explain working of DNS. (10)
- Q5.**
- a) What is REST API? What are the principles of REST API. (10)
 - b) What is Web Browser. Discuss working of Web Browser in detail. (10)
- Q6.** Short note on: (Any 4) (20)
- a) JSON
 - b) NPM
 - c) JSX
 - d) Difference between let and const keyword
 - e) Arrow function in ES6

(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
- b) 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
