

R6636

Sub. Code

9MS2C1

M.Voc. DEGREE EXAMINATION, APRIL – 2022

Second Semester

Software Development

**PRINCIPLES OF COMPUTER NETWORK AND
SECURITY**

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is topology?
2. Define Computer Network.
3. What is flow control?
4. Define FDM.
5. What are the metrics used by routing protocol?
6. Write note on congestion control.
7. What are the uses of HTTP?
8. List some of the QoSService parameter of TL.
9. List the Characteristics of Firewall.
10. Write a note on digital signature.

Part B

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Write the functions of OSI architecture.

Or

- (b) Discuss about Telephone system.

12. (a) Explain methods used for Error detection.

Or

- (b) Briefly discuss the design issues in DLL.

13. (a) Explain the function of Routing Information protocol.

Or

- (b) Describe about shortest path algorithm.

14. (a) Write a detailed noted on congestion avoidance mechanism used in TCP.

Or

- (b) Differentiate between TCP and UDP.

15. (a) Briefly explain MIME with neat sketch.

Or

- (b) Discuss about IPv4 and Ipv6 security.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail about TCP/IP with neat diagram.
 17. Describe about the Data Link protocol.
 18. Discuss the design issues in Network layer.
 19. Explain the working principle of TCP protocol.
 20. Write a detailed note on Email privacy.
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9MS2C2

M.Voc. DEGREE EXAMINATION, APRIL – 2022

Second Semester

Software Development

FUNDAMENTALS OF OPERATING SYSTEM

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define OS.
2. What is the difference between distributed and parallel processing operating system?
3. Why process management is important in operating system?
4. List out the advantages of kernel level threads.
5. How semaphore is used for process synchronization?
6. How do you solve critical section problems?
7. Define deadlock.
8. What is circular wait condition?
9. What is swapping in memory management?
10. State the characteristics of virtual memory.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a brief note on time sharing system.

Or

- (b) Explain the need of resource sharing system.

12. (a) Explain about process creation and termination.

Or

- (b) State the criteria to consider for CPU scheduling.

13. (a) Explain about thread scheduling.

Or

- (b) Discuss about hardware synchronization.

14. (a) Illustrate the methods for deadlock recovery.

Or

- (b) Describe mutual exclusion principles.

15. (a) What is continuous memory allocation? Explain with suitable example.

Or

- (b) Discuss about thrashing.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the input and output management in an operating system.
17. Compare FCFS and SJN scheduling algorithms with suitable examples.

18. Describe a real time scheduling.
 19. Discuss in detail about deadlock recovery.
 20. Write a detailed note on page replacement algorithms.
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Sub. Code

9MS4G1

M.Voc. DEGREE EXAMINATION, APRIL – 2022

Fourth Semester

Software Development

PRINCIPLES OF DIGITAL MARKETING

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Digital Marketing?
2. What does an advertisement convey?
3. What is Domain?
4. Define Host.
5. Write down few uses of Email marketing.
6. Give some examples of email marketing.
7. What is affiliate marketing?
8. What does PR mean in social media?
9. What is Holistic marketing?
10. Write a short note on game advertising.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) How does digital marketing work? Explain.

Or

- (b) Explain the technologies behind the digital marketing.

12. (a) How to choose web designer or developer in digital marketing? Explain.

Or

- (b) Explain the ways of successful digital marketing.

13. (a) Explain the types of e-mail marketing.

Or

- (b) Compare Email marketing and Social media.

14. (a) List out the advantages and disadvantages of online PR.

Or

- (b) What is affiliate marketing? How does it work? Briefly explain.

15. (a) What is market size and trends? Explain.

Or

- (b) Shortly explain the marketing power house.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the types of digital marketing in detail.
17. Write a note on the following in digital marketing:
 - (a) Testing
 - (b) Investing
 - (c) Tweaking
 - (d) Reinvesting
18. Describe the components of E-Mail marketing.
19. Explain in detail about the opportunities recognizing in strategic partnership.
20. Describe “Mobile Marketing a game changing channel”.

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9MS4G2

M.Voc DEGREE EXAMINATION, APRIL – 2022

Fourth Semester

Software Development

FUNDAMENTALS OF INDUSTRY 4.0

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Why is industry 4.0 needed?
2. What is meant by business transformation?
3. Define IoT.
4. What is smart city?
5. Define Cyber security.
6. What is the difference between Industry 4.0 and Lean manufacturing?.
7. Define Cloud.
8. What is SAAS?
9. What are the risk of industry 4.0 solution?
10. Write down five industry challenges?

Part B

(5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) How can you implement industry 4.0?

Or

- (b) Compare industry 4.0 and today's factory.

12. (a) Briefly explain about internet of things.

Or

- (b) Write a note on Predictive analysis.

13. (a) What are cyber – physical system? Explain.

Or

- (b) Write down the features of mobile computing.

14. (a) What are the ways knowledge sharing is important in an organization?

Or

- (b) Write a note on Cloud computing and its uses.

15. (a) Explain the skills need for workers in industry 4.0.

Or

- (b) List out the benefits of industry 4.0.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the trends of industrial big data and predictive analytics in smart business transformation.
17. Explain in detail about Internet of Services.

18. Describe the applications and development of cyber security in industry 4.0
 19. Explain the data management in industry 4.0.
 20. Write a detailed note of opportunities and challenges in industry- 4.0.
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