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**B.Voc DEGREE EXAMINATION,  APRIL 2021 &**

**Supplementary/Improvement/Arrear Examinations**

**Second Semester**

**Software Development**

**WEB TECHNOLOGY**

**(CBCS – 2019 onwards)**

Time : 3 Hours                                    Maximum : 75 Marks

**Part A**                          (10 × 2 = 20)

Answer **all** questions.

1.    What is the role of IP address?

2.    Expand RARP.

3.    What is a DNS  server?

4.    What is TELNET?

5.    List out the html link tags.

6.    Define ordered list in html.

7.    Write a  syntax of JavaScript switch statement.

8.    Define assignment operators.

9.    Write a description of onmouseout event in JavaScript.

10.   Define DTD.

**Part B** $(5 \times 5 = 25)$

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

11. (a)    Explain about internetworking concepts.

Or

(b)    Write a concept of IP address.

12. (a)    Write a  history of WWW.

Or

(b)    Explain about web browser.

13. (a)    Discuss the special characters in HTML.

Or

(b)    Explain about horizontal rulers in HTML.

14. (a)    Explain about if statement with example using JavaScript.

Or

(b)    Discuss about increment and decrement operators with example.

15. (a)    Write a short note on registering event handless.

Or

(b)    Explain about onmousemove event in JavaScript**.**

**Part C** $(3 \times 10 = 30)$

Answer any **three** questions.

16.    Describe the architecture of TCP/IP.

17.    Briefly explain about E–Commerce.

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18. Discuss in detail about tables and formatting tags in HTML.

19. Explain briefly about logical operators with example.

20. Describe in detail about onfocus and onblur events in JavaScript.

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**B.VOC. DEGREE EXAMINATION, APRIL 2021 &**

**Supplementary/Improvement/Arrear Examinations**

**Software Development**

**Allied : MATHEMATICS — OPTIMIZATION TECHNIQUES**

**(CBCS – 2019 onwards)**

Time : 3 Hours                                  Maximum : 75 Marks

**Part A**                    (10 × 2 = 20)

Answer **all** questions.

1. Define Optimum Solution.

2. Write a standard form of LPP.

3. What is transportation problem?

4. Give the mathematical formulation of an assignment problem.

5. Define input process.

6. What do you understand by jockeying?

7. Define total float.

8. Acronym of PERT.

9. What is sequencing?

10. What is no passing rule in a sequencing algorithm?

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

11. (a) Write a different rules involved in solving by Simplex Method.

Or

(b) Mention advantages of optimization techniques.

12. (a) Solve the following LPP graphically :

Maximize $Z = 3x_1 + 2x_2$

Subject to $x_1 - x_2 \leq 1$, $x_1 + x_2 \geq 3$ and

$x_1, x_2 \geq 0$.

Or

(b) Solve the following assignment problem.

$$\begin{array}{c} & \text{Men} \\ & \begin{array}{cccc} \text{A} & \text{B} & \text{C} & \text{D} \end{array} \\ \text{Jobs } \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \end{array} & \left(\begin{array}{cccc} 10 & 25 & 15 & 20 \\ 15 & 30 & 5 & 15 \\ 35 & 20 & 12 & 24 \\ 17 & 25 & 24 & 20 \end{array}\right) \end{array}$$

13. (a) A TV repairman finds that the time spent on his jobs has an exponential distribution with mean 30 minute. If he repair sets in the order in which they came in, and if the arrival of sets is approximately Poisson with an average rate of 10 per 8 hours day, what is repairman's expected idle time each day? How many jobs are ahead of the average set just brought in?

Or

(b) Customer arrive at a box office window, being manned by single individual, according to a Poisson input process with a mean rate of 30 per hour. The time required to serve a customer has an exponential distribution with a mean of 90 seconds. Find the average waiting time of a customer.

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14. (a) Draw the network for the following data and number the events.

$A < C, B$; $B < D, E$; $C < F$, $E < G$; $F < I, J$; $J < K$; $G < L$; $K, L < M$.

Or

(b) Draw the network and find the critical path using total float.

Activity : 1-2 1-3 2-4 2-5 3-4 4-5

Duration (Days) : 8 4 10 2 5 3

15. (a) Explain the four elements that characterize a sequencing problem.

Or

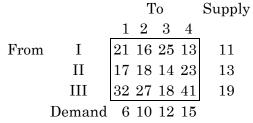(b) How does the sequencing technique help of manager?

**Part C** (3 × 10 = 30)

Answer any **three** questions.

16. Use Simplex method to

Minimize $Z = x_2 - 3x_3 + 2x_5$

Subject to $3x_2 - x_3 + 2x_5 \leq 7$,

$-2x_2 + 4x_3 \leq 12$,

$-4x_2 + 3x_3 + 8x_5 \leq 10$

$x_2 \geq 0$, $x_3 \geq 0$ and $x_5 \geq 0$.

17. Solve the following Transportation Problem.

|  | | To | | | | Supply |
|---|---|---|---|---|---|---|
|  | | 1 | 2 | 3 | 4 | |
| From | I | 21 | 16 | 25 | 13 | 11 |
| | II | 17 | 18 | 14 | 23 | 13 |
| | III | 32 | 27 | 18 | 41 | 19 |
| Demand | | 6 | 10 | 12 | 15 | |

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18. A telephone exchange has two long distance operators. The telephone company finds that during the peak load, long distance calls arrive in a Poisson fashion at an average rate of 15 per hour. The length of service on these calls is approximately exponentially distributed with mean length 5 minutes.

    (a) What is the probability that a subscriber will have to wait for his long distance all during the peak hours of the day?

    (b) If the subscribers will wait and are served in turn, what is the expected waiting time?

19. A project consists of the following activities and time estimates :

| Activity | Least time (days) | Greatest time (days) | Most likely (days) |
|---|---|---|---|
| 1-2 | 3 | 15 | 6 |
| 1-3 | 2 | 14 | 5 |
| 1-4 | 6 | 30 | 12 |
| 2-5 | 2 | 8 | 5 |
| 2-6 | 5 | 17 | 11 |
| 3-6 | 3 | 15 | 6 |
| 4-7 | 3 | 27 | 9 |
| 5-7 | 1 | 7 | 4 |
| 6-7 | 2 | 8 | 5 |

    (a) Draw the network.

    (b) What is the probability that the project will be completed in 27 days?

20. Explain the principal assumptions made while dealing with sequencing problems.

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**B.Voc. DEGREE EXAMINATION, APRIL 2021 &**

**Supplementary/Improvement/Arrear Examinations**

**Third Semester**

**Software Development**

**OPERATING SYSTEMS**

**(CBCS – 2019 onwards)**

Time : 3 Hours                    Maximum : 75 Marks

**Part A**                    (10 × 2 = 20)

Answer **all** questions.

1.   Define Operating system.

2.   What do you mean by Kernel.

3.   What is process state?

4.   Define deadlock.

5.   What is Swapping?

6.   Define demand paging.

7.   What do you mean by program threats?

8.   Define computer security.

9.   What is shell?

10.  Define Unix.

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

11. (a)   Write a note on booting process.

Or

(b)   Explain about file system.

12. (a)   Discuss in detail about process control block.

Or

(b)   Explain about dead lock prerequisites.

13. (a)   Describe fixed partitioned.

Or

(b)   Explain about non contiguous allocations.

14. (a)   Mention the components of GUI.

Or

(b)   Write a note on Virus.

15. (a)   List down UNIX operating system parts.

Or

(b)   Explain about removing directories in Unix.

**Part C**                          (3 × 10 = 30)

Answer any **three** questions.

16. Briefly explain about history of operating system.

17. Discuss in detail about inter process communication.

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18.   Describe virtual memory management.

19.   Explain about requirement of windows based GUI.

20.    Explain briefly about file system of Unix.

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**B.Voc. DEGREE EXAMINATION, APRIL 2021 &**

**Supplementary/Improvement/Arrear Examinations**

**Fourth Semester**

**Software Development**

**COMPUTER NETWORKS ADMINISTRATION**

**(CBCS – 2019 onwards)**

Time : 3 Hours                          Maximum : 75 Marks

**Part A**                    (10 × 2 = 20)

Answer **all** questions.

1.    What is routing?

2.    What is data communication?

3.    Define transport layer.

4.    Define session layer.

5.    How to working wireless LAN.

6.    Define topologies.

7.    Define IPV4.

8.    What is encryption?

9.    What are the needs for network management?

10.    Define receiving message.

**Part B** (5 × 5 = 25)

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

11. (a) Explain about routing concepts.

Or

(b) What are needs for computer networks?

12. (a) Write a short note on data link layer.

Or

(b) Explain about network layer concepts.

13. (a) Explain about X.25 protocol.

Or

(b) What are the components of wireless LAN?

14. (a) Write a short note on hash functions.

Or

(b) Explain about confidentiality with symmetric encryption.

15. (a) Write a short note on authorization.

Or

(b) Explain about administrative model in network management.

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**Part C** (3 × 10 = 30)

Answer any **three** questions.

16. Briefly explain about fundamentals of data communications.

17. Explain about transmission control protocol.

18. Discuss in detail about LAN architecture.

19. Describe in detail about IPV4 and IPV6 security.

20. Explain about network management protocol.

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**B.Voc. DEGREE EXAMINATION, APRIL 2021 &**

**Supplementary/Improvement/Arrear Examinations**

**Second Semester**

**Banking and Financial Services**

**LIFE COPING SKILLS (ADVANCED)**

**(CBCS – 2019 onwards)**

Time : 3 Hours                           Maximum : 75 Marks

**Part A**                    (10 × 2 = 20)

Answer **all** questions.

1.   What is self esteem?

2.   What is meant by self confident?

3.   State the five C's of decision making.

4.   Who is called as good decision maker?

5.   What is physical stress?

6.   What is shyness?

7.   What is self criticism?

8.   What is meant by fogging?

9.   What is meant by learning?

10.  What is questioning?

**Part B**            $(5 \times 5 = 25)$

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

11. (a) How a person may overcome from obstacles?

Or

(b) Discuss a recipe for success.

12. (a) State the guidelines to problem solving.

Or

(b) Differentiate problem solving and decision-making.

13. (a) Discuss the tips for time management.

Or

(b) How does stress affect a person?

14. (a) Discuss about negative assertion.

Or

(b) Discuss the tactics of conflict management.

15. (a) List out the essential skills for teamwork.

Or

(b) How to improve teamwork skills?

**Part C**            $(3 \times 10 = 30)$

Answer any **three** questions.

16. Explain the qualities that make a person successful.

17. Explain the process of decision-making.

18. What is time management? Why time management is so important?

19. Explain the types of criticism. How to overcome from criticism?

20. Explain the benefits of teamwork in an organization.

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