R–2969

Sub. Code
5BV2G1

B.VOC. DEGREE EXAMINATION, APRIL 2019

Second Semester

Fashion Technology/ Software Development

LIFE COPING SKILLS – ADVANCED

(Common for B.Voc. Fashion Technology/ Software Development)

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1. Mention any two components of attitude.

2. What is true success?

3. What is decision making?

4. Indicate any two problem solving technique.

5. Define time management.

6. What is stress?

7. Define criticism.

8. What do you mean by fogging?

9. Define team work.

10. Define communication.

Part B (5 × 5 = 25)

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

11. (a) Write a short note on winning edge.

Or

(b) Describe the guidelines to measure true success.

12. (a) Explain the principles of problem solving.

Or

(b) Explain the process of decision making.

13. (a) Describe the kinds of stress.

Or

(b) Explain the sources of stress.

14. (a) Write a short note on negative enquiry.

Or

(b) Describe the beliefs about criticism.

15. (a) Bring out the benefits of team building.

Or

(b) Write a short note on team learning.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain the obstacles for success and how can it is overcoming.

17. Explain the various steps involved in problem solving.

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18. Portray the tips for time management.

19. Explain the tactics of conflict management.

20. Explain the stages of team building.

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R–2974

B.Voc. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Fashion Technology/Software Development

CORPORATE GROOMING AND FINISHING SKILLS

**(Common for B.Voc. Fashion Technology/
B.Voc. Software Development)**

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   Who is a professional?

2.   Why professional behaviour is important?

3.   What is meant by etiquette?

4.   List two points in email etiquette.

5.   What skills do you need for a cleaning job?

6.   How do you conserve energy?

7.   Why multitasking quality in needed for a front desk?

8.   What is ice-breaking?

9.   What is the purpose of meeting minutes?

10.   What is an action in minutes?

Part B (5 × 5 = 25)

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

11. (a) What professionalism is expected by an employer?

Or

(b) Differentiate rational from emotional decisions.

12. (a) Explain the eating and table manners.

Or

(b) Explain the impact of informal communication.

13. (a) What is meant by spaetial utility? Explain.

Or

(b) Explain the term : laptop management.

14. (a) What preparation do you need for an office meeting?

Or

(b) Explain : Visitor appointment management.

15. (a) What is an objective of a document? Explain it with example.

Or

(b) Explain the effect of photos in a document for media.

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Part C   (3 × 10 = 30)

Answer any **three** questions.

16. What are the qualities of an effective executive? Explain.

17. Discuss the components of body language.

18. Explain the skills and qualifications for a housekeeping job.

19. Explain the skills needed for a front desk.

20. What are the steps involved with meeting minutes? Explain.

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R–2975

B.Voc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Software Development

WEB TECHNOLOGY

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1. Define router.

2. List out the three parts of an Ipaddress.

3. What do you mean by spooling?

4. Define web browser.

5. What are the different types of lists in HTML?

6. Create a hyperlink using HTML.

7. Mention the use of Break Statement.

8. Give an example for single selection structure.

9. Define Event Handler.

10. Write a note on onmousemove event.

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

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

11. (a) What are the software issues in internetworking?

Or

(b) Describe the various fields in Ipaddress.

12. (a) Explain Email.

Or

(b) Discuss about history of WWW.

13. (a) Explain HTML tags with example.

Or

(b) Create an advertisement in HTML for a leading software company.

14. (a) Explain if....else with example.

Or

(b) Sketch the structure of do...while loop and explain.

15. (a) Discuss about onclick and onload events.

Or

(b) Compare DTD with XML schema.

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Part C (3 × 10 = 30)

Answer any **three** questions.

16. Write a brief note on history of Internet.

17. Explain E-Commerce.

18. Discuss in detail about frames and table tags.

19. Explain the following with suitable example.

    (a) for loop

    (b) switch statement.

20. Explain XML attributes.

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	5SD2A1

B.Voc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Software Development

MATHEMATICS – OPTIMIZATION TECHNIQUES

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1.   What is an infeasible solution and how does it occur?

2.   State the fundamental theorem of duality.

3.   Write down the mathematical formulation of an assignment problem.

4.   How will you convert a maximization assignment problem into minimization one?

5.   Define queue discipline.

6.   What do you understand by the service channels?

7.   Define total float.

8.   Expand CPM and PERT.

9.   Define "Idle lime on a machine".

10. What is sequencing?

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

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

11. (a) Formulate the dual of the following L.P.P.

Maximize $Z = 5x_1 + 3x_2$

Subject to the constraints

$3x_1 + 5x_2 \leq 15$

$5x_1 + 2x_2 \leq 10$

$x_1 \geq 0$ and $x_2 \geq 0$

Or

(b) Explain the Simplex procedure to solve a L.P.P.

12. (a) Use graphical method to solve the L.P.P

Maximize $Z = 2x_1 + 4x_2$

Subject to the constraints :

$x_1 + 2x_2 \leq 5,$

$x_1 + x_2 \leq 4$ and

$x_1, x_2 \geq 0.$

Or

(b) Solve the assignment problem.

$$
\begin{array}{c c c c c}
 & A & B & C & D \\
I & 1 & 4 & 6 & 3 \\
II & 9 & 7 & 10 & 9 \\
III & 4 & 5 & 11 & 7 \\
IV & 8 & 7 & 8 & 5
\end{array}
$$

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13. (a) A T.V 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 hour day, what is repairman's expected idle time each day? How many jobs are ahead of the average set just brought in?

Or

(b) Explain customer's behavior.

14. (a) Draw a network diagram for the following data :

Activity :	A	B	C	D	E	F	G	H	I	J
Preceding activities :	None	A	A	B	A	B, E	C	D, F	G	H, I

Or

(b) Write down the major rules of network construction.

15. (a) We have five jobs, each of which must go though the two machines A and B in the order AB. Processing times in hours are given in the table below :

Job (i) :	1	2	3	4	5
Machine A (A_i) :	5	1	9	3	10
Machine B (B_i) :	2	6	7	8	4

Determine a sequence for the five jobs that will minimize the elapsed time.

Or

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(b)   A book binder has one printing press, one binding machine, and the manuscripts of a number of different books. The time required to perform the printing and binding operations for each books total time required to turn out all the books :

Job :   1   2   3   4   5   6

Printing time (hrs) :   1   3   8   5   6   3

Binding time (hrs) :   5   6   3   2   2   10

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

Answer any **three** questions.

16.   Obtain the dual problem of the following primal problem.

Minimize $Z = x_1 - 3x_2 - 2x_3$

Subject to the constraints

$$3x_1 - x_2 + 2x_3 \leq 7;$$
$$2x_1 - 4x_2 \geq 12;$$
$$-4x_1 + 3x_2 + 8x_3 = 10;$$
$$x_1 \geq 0 \text{ and } x_2 \geq 0,$$

x_3 is unrestricted.

17.   A department head has four subordinates, and four tasks to be performed. The subordinates differ inefficiency. And the tasks differ in their intrinsic difficulty. His estimate, of the time each man would take to perform each task, is given in the matrix below :

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Men

Task	E	F	G	H
A	18	26	17	11
B	13	28	14	26
C	38	19	18	15
D	19	26	24	10

How should the tasks be allocated, one to a man, so as to minimize the total man-hours?

18. In a railway marshalling yard, goods train arrives at a rate of 30 trains per day. Assume that the inter arrival-time follows an exponential distribution and the service time distribution is also exponential with an avenge of 36 minutes, calculate

(a) The probability that the yard is empty

(b) Average queue length assuming that the line capacity of the yard is 9 trains.

19. A project consists of a series of tasks labeled A, B, ..., H, I with the following relationships ($W < X$, Y means X and Y cannot start until W is completed X, $Y < W$ means W cannot start until both X and Y are completed). With this notation construct the network diagram having the following constraints:

$A < D, E$; $B, D < F$; $C < G$; $B, G < H$; $F, G < I$.

Find also the minimum time of completion of the project, when the time (in day) of completion of each task is as follows :

Task :	A	B	C	D	E	F	G	H	I
Time :	23	8	20	16	24	18	19	4	10

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20. Solve the following sequencing problem when passing out
    is not allowed :

Machine (Processing time in hours)

Item	A	B	C	D
I	15	5	4	15
II	12	2	10	12
III	16	3	5	16
IV	17	3	4	17

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B.Voc. DEGREE EXAMINATION, APRIL 2019

Fourth Semester

Software Development

COMPUTER NETWORKS ADMINISTRATION

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   What is a Computer Network? Why do we need it?

2.   Define Bandwidth.

3.   What is a protocol? What are the attributes of it?

4.   What is flooding?

5.   What do CSMA and MAC stand for?

6.   What are the two operating modes of token ring model?

7.   What is meant by digital signature?

8.   What do you understand by cryptography?

9.   What is a network monitoring system?

10. What is authorization?

Part B (5 × 5 = 25)

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

11. (a) Classify the networks based on ownership.

Or

(b) Compare the different switching techniques used in computer networks.

12. (a) Explain the different frames of HDLC.

Or

(b) Explain the basic concept of link state routing.

13. (a) Mention the responsibilities of the layers of Systems Network Architecture.

Or

(b) Explain the different components of Wireless LAN.

14. (a) What are the four aspects of network security Explain?

Or

(b) Narrate on the security measures offered by IPv4.

15. (a) Write a note on devices used in managing the computer network.

Or

(b) What are the three parts of SNMP? Explain.

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Part C (3 × 10 = 30)

Answer any **three** questions.

16. Discuss on network topologies with neat diagram.

17. Explain the functionality of OSI network model in detail.

18. Discuss the characteristics of LAN in detail.

19. Explain the different network attacks and the defences against the attacks.

20. Explain the functional areas of network management.

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B.Voc. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Software Development

SOFTWARE PROJECT MANAGEMENT

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   What is the goal of software engineering approach?

2.   What is a Project?

3.   What is the importance of review plan activity?

4.   What are the attributes of estimation?

5.   What is a process model?

6.   What are the advantages of prototyping model?

7.   What are the problems with over – and under estimates?

8.   What is SRS?

9.   Define Project risk.

10.   What are the two general characteristics of software risk?

Part B   (5 × 5 = 25)

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

11. (a) Explain about the characteristics of software.

Or

(b) Why is software project management important? Explain.

12. (a) Explain about the scope of the project.

Or

(b) Which appropriate methods are used for the project planning operation? Explain

13. (a) Briefly discuss about waterfall model for software development.

Or

(b) Explain about Spiral model with a neat diagram for software development.

14. (a) Explain the need for software estimation.

Or

(b) Explain about function point analysis of cost estimation.

15. (a) Write short notes on Risk Assessment.

Or

(b) Write short notes on Risk Planning.

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

Answer any **three** questions.

16. Explain about the management functions related to software project management.

17. Explain in detail about project planning activities with a neat diagram.

18. Explain in detail about the general idea of incremental delivery approach.

19. Describe the COCOMO Cost estimation method and its advantages.

20. Explain the resources required for a project.

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R–3274

Sub. Code
5SD1A1

B.Voc. DEGREE EXAMINATION, APRIL 2019

First Semester

Software Development

PRINCIPLES OF INFORMATION AND COMMUNICATION TECHNOLOGY

(CBCS – 2015 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What is the need of IT?

2. Define Internet.

3. What is Bluetooth?

4. Write a different types of disc.

5. Write the functions of bridges.

6. What is routing?

7. Define vector images.

8. Expand TIFF and JPEG.

9. What is a browser?

10. Define instant message.

Part B   (5 × 5 = 25)

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

11. (a)   Write a different role of Information Technology.

Or

(b)   Discuss in detail about Information Technology in media.

12. (a)   Explain about smart card.

Or

(b)   Write a short note on Nanotechnology.

13. (a)   Explain about virtual circuits.

Or

(b)   Discuss in detail about internetwork routing.

14. (a)   Write a properties of digitized images.

Or

(b)   Explain about virtual reality.

15. (a)   How to configure the browser? Explain.

Or

(b)   What are the infrastructure requirements for email? Explain.

Part C   (3 × 10 = 30)

Answer any **three** questions.

16. Briefly explain about Information Technology and Internet.

17. Explain about Mobile Communication.

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18. Explain about :

    (a)   repeaters   (5)

    (b)   routers.   (5)

19. Discuss the steps in developing multimedia systems.

20. Explain about history of search engine. Explain the search engine types.

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Sub. Code
5SD1C1

B.Voc. DEGREE EXAMINATION, APRIL 2019

First Semester

Software Development

FUNDAMENTALS OF PROGRAMMING AND C

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. What is an algorithm?

2. Write any two flowchart symbol and its use.

3. What are the selection structures?

4. What is the advantages of structural flowcharts?

5. List the basic types of constants support by C.

6. What is C conditional operator/ternary operator?

7. How an array is declared?

8. Describe the different category of function.

9. What is the purpose of the 'typedef' feature?

10. What is meant by 'pointer arithmetic'?

Part B   (5 × 5 = 25)

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

11. (a) What are the benefits and limitations of flow charts?

                    Or

     (b) Write an algorithm to find the smallest of three given integers.

12. (a) Distinguish between 'selection' and 'iteration'.

                    Or

     (b) Write an algorithm and flowchart to find the given integer as 'odd' or 'even'.

13. (a) Describe the different Datatypes available in C.

                    Or

     (b) Explain 'switch' statement with an example.

14. (a) Explain the different built-in string functions.

                    Or

     (b) Write a C program to check the give word as palindrome or not.

15. (a) Distinguish between structure and union.

                    Or

     (b) What is a pointer? What are its types?

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Part C (3 × 10 = 30)

Answer any **three** questions.

16. Write an algorithm and flow chart to find the biggest to given 'n' numbers.

17. Write the flow chart for counting number of positive numbers, negative numbers and zeroes in a set of 'n' numbers.

18. Discuss the different loop structures available in C.

19. Write a C program to calculate factorial of a given integer.

20. Write a C program to add two matrices.

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	5SD5G1

B.Voc. DEGREE EXAMINATION, APRIL 2019.

Fifth Semester

Software Development

MIS and EDI

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. Write about the information system role in an organization.

2. What is system analysis?

3. Comment on interactive marketing.

4. Define Robotics.

5. Write the advantages of EDI.

6. Mention the standards of EDI.

7. What is order delivery cycle in E-commerce?

8. List the types of E-Tokens.

9. Define Cloud Computing.

10. Write a note on HDFS.

Part B (5 × 5 = 25)

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

11. (a) Explain the types of information system.

Or

(b) Discuss feasibility study.

12. (a) Describe about human resource information system.

Or

(b) Explain about expert system with its components.

13. (a) Discuss about VAN service providers.

Or

(b) Describe about the cost of EDI infrastructure.

14. (a) Discuss about E-CRM.

Or

(b) Mention the characteristics of EFT. Explain.

15. (a) What is Hadoop? Explain its features.

Or

(b) Explain about GoogleApp engine in E-commerce.

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Part C   (3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail about design of an information system.

17. Briefly explain management information system.

18. Discuss about Internet based EDI.

19. Mention the issues of Credit Card based E-payment system.

20. How can we consolidate the servers using cloud computing?

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Sub. Code
5SD3C1

B.Voc. DEGREE EXAMINATION, APRIL 2019

Third Semester

Software Development

OPERATING SYSTEMS

(CBCS – 2015 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   List the resources managed by an operating system.

2.   Define an interrupt.

3.   What is a process?

4.   What is multi tasking?

5.   What is external fragmentation?

6.   Define virtual memory.

7.   What is meant by authentication?

8.   Define protection.

9.   What is the function of a kernel in Unix?

10.   What is a system call?

Part B (5 × 5 = 25)

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

11. (a) Explain the features of third generation computers.

Or

(b) Explain block and block numbering scheme in a disk device.

12. (a) What are the various stages of a process? Explain.

Or

(b) Explain the conditions for deadlock to occur.

13. (a) Explain fixed partitioned memory management scheme.

Or

(b) Explain OPT page replacement algorithm with an example.

14. (a) Explain any two types of virus.

Or

(b) Explain the use of encryption.

15. (a) Explain different types of files recognized by Unix.

Or

(b) Explain any four unix directories.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain the services provided by an operating system.

17. Explain any four process scheduling algorithms.

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18. Discuss in detail segmented memory management schemes.

19. Explain the various attacks on security.

20. Explain the architecture of unix operating system.

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