



PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)

OUTLINES OF TESTS SYLLABI AND COURSES OF READING

FOR

Bachelor of Vocation (Hardware and Networking)

Session 2017-18

(1st to 6th Semester)

SCHEME OF B.Voc.(HARDWARE AND NETWORKING)
(SEMESTER SYSTEM)

Semester I								
Paper Code	Title	Generic/Skill Component	Theory/Practical	Internal (Theory)	External (Theory)	Internal (Practical)	External (Practical)	Credits

***Refer to Generic Components Common to all B.Voc. Courses**

Job Role: Field Technician-Computing and Peripherals

**** Summer Industrial Training of 4-6 weeks in a relevant Industry after 2nd Semester Examinations during summer break. Training report by the student to be submitted within in one week of start of 3rd Semester. Viva-Voce examination to be held within 3-weeks of the start of 3rd semester**

***Refer to Generic Components Common to all B.Voc. Courses**

****Winter Industrial/ In-house Training of 2-3 weeks done after 5th Semester Examinations and before start of 6th semester. Training report by the student to be submitted within in one week of**

B.Voc. (HARDWARE AND NETWORKING)

Semester: I

Paper Title: COMMUNICATION SKILLS Paper Code: *GEN 101 Credits: 6

Job Role: Field Technician-Computing and Peripherals

Objective: To evaluate the student's ability to perform operations and use the computer system. To evaluate the student's ability to perform operations and use the computer system.

Instructions for Examiner:

The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system.

UNIT-I

Introduction to Communication: The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system.

UNIT-II

Verbal Communication: The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system.

The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system.

Non-Verbal Communication: The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system. The student is to perform operations and use the computer system.

Paper Title: COMPUTER HARDWARE

Paper Code: HWN-103

Credits: 6

Job Role: Field Technician-Computing and Peripherals

Objectives: Her e Fun e nt e s n e t stu nts to e rn e out e r e r t no o s t r

or attention in the partitions used in Design and Construction

UNIT-IV

Introduction to Human Resource Management
Human Resource Planning
Recruitment and Selection
Job Design and Job Analysis
Performance Appraisal
Employee Compensation
Employee Training and Development
Employee Safety and Health
Employee Relations and Labor Union

Suggested Resources for Reading:

CC A C s o C r t t o r A s s o c i a t e d G u r E t o n r H E u t o n
C s o t o r n E s s n t s A u t o r a n t r o l u t o r o n . o n s
s G u p t C o H r r a n t o r n C o u r s t s t E t o n D r a t r s s
C r p t o n t o r u r t r E t o n r H E u t o n

References Resources:

C s o B m r s G u F t E t o n G r H s o m a
t o r n C o p t r n s t E t o n r H E u t o n

UNIT III

Introduction to Business, Human Resources, Behaviour, Motivation, Quality Management, Operations Management, Globalisation, Entrepreneurship, Project Management, Quality Management, Decision Making, Process Management

Job Role: Field Technician-Computing and Peripherals

Objectives: To provide students with the opportunity to understand the importance of business ethics in the corporate sector and to develop their understanding of the role of business ethics in the corporate sector.

Instructions for Examiner:

The student should be able to answer the questions in the form of short answers, multiple choice questions, and long answers. The student should be able to answer the questions in the form of short answers, multiple choice questions, and long answers. The student should be able to answer the questions in the form of short answers, multiple choice questions, and long answers.

UNIT 1

Business Ethics and Corporate Social Responsibility Business Ethics and Corporate Social Responsibility Business Ethics and Corporate Social Responsibility

UNIT-II

Globalization and Business Ethics Globalization and Business Ethics Globalization and Business Ethics

UNIT - III

Professional Ethics and Business Ethics Professional Ethics and Business Ethics Professional Ethics and Business Ethics

UNIT - IV

Corporate Governance and Business Ethics Corporate Governance and Business Ethics Corporate Governance and Business Ethics

Suggested Resources for Reading:

Dr. A. Corporate Governance Business Ethics C An Books Ltd D

Practical based on HWN-203

Instructions for practical:

Enr s tot o our qu st ons o r n t o s us
tu nt tt pt n tr qu st on
Enr qu st on r s r s
r t r s r s n r s or pr t or n
r t p r on u t t o n o r t on t t r sp t p rts n
r s su tt to n n r t

Suggested Resources for Reading:

at ur r n n or or n o s t p t p G t
at ur r n n E or n o s t p t p G t
s r s A s u n o s G t B s n r

References Resources:

Co put rs o G t
ss r B r r s n t nt m t H t D
D A t rs s n t or H n D

Paper Title: COMPUTER HARDWARE AND TROUBLE SHOOTING

Paper Code HWN-204

Credits: 6

Paper Title: E-COMMERCE Paper Code: GC 302 Credits: 6

Job Role: Network Support Engineer

Objective: The objective of this paper is to provide an opportunity to the students to evaluate their understanding of the concepts related to Network Support. The paper will cover the following topics:

Instructions for Examiner:

The students are to use this paper as a guide into the following units.
Each unit is to be treated as a separate unit. The questions are to be answered in the units.
The questions are to be answered in the units.
The students are required to attempt the questions in the units. The Computer

UNIT-IV

Entrepreneurship: A process of identifying, creating, and exploiting opportunities for business growth. It involves innovation, risk-taking, and the ability to lead and inspire others. Key elements include vision, strategic planning, and effective communication.

Suggested Resources for Reading:

1. Schumpeter, J. A. (1934). *The Theory of Economic Development*. Cambridge, MA: Harvard University Press.

Paper Title: WINDOWS OPERATING SYSTEM Paper Code: HWN-303 Credits: 6

Job Role: Network Support Engineer

Objective: This course is designed to understand the concepts of network. After the completion of this paper student will be able to understand various processes and operations and its top to bottom.

Instructions for Examiner:

This is a set of papers which is divided into five units.
Each unit consists of a total of five questions. The first question is a unit number question. The question is a short answer type question. The student is required to attempt one question from each unit.

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UNIT- IV

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En r pt n an r pt n o rs an s

Practical based on HWN-303

Instructions for practical:

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an r s an su tt to an an an an r s t

Suggested Resources for Reading:

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References Resources:

D an r r G son an roso t an n o s t or n Ess nt an s st E t on

Job Role: Network Support Engineer

Objective: This course provides an introduction to network support roles. The objective is to enable students to understand and apply network support concepts.

Instructions for Examiner:

This is a 50% practical exam. The exam consists of 10 questions. The questions are divided into two parts: 5 questions for the written part and 5 questions for the practical part. The questions are to be attempted in the order given. The questions are to be attempted in the order given.

UNIT-I

Introduction to protocols of routing. Introduction to protocols of routing. Introduction to protocols of routing. Introduction to protocols of routing. Introduction to protocols of routing.

UNIT-II

Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols.

UNIT-III

Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols. Introduction to routing protocols.

UNIT-IV

Convergent routing, LA routing, out of order, stateful, upstream routing, network, Convergence, CSO, FIS, Boot, r, r, n, s, CSO, L, ns, n, o, ns, C, n, ns, Convergence, EG, sn, A, F, s, D, st, n, F, s, u, ssors, A, n, str, t, v, st, n, F, s, t, on, t, on, r, o, p, o, s, t, on, out, r, D, uto, su, r, t, on, B, n, n, n, qu, Equ.

Suggested Resources for Reading:

Cost, CC, out, n, t, n, H, C, rt, Gu, rson, n, o, n, n, out, n, t, n, tu, Gu, n, v, Lt, CC, A, C, s, o, C, rt, t, or, Asso, t, tu, Gu, r, E, t, on, H, E, u, t, on

References Resources:

CSO, t, or, n, Ess, nt, s, Aut, or, o, n, o, t, o.

B.Voc. (HARDWARE AND NETWORKING)

Semester : IV

Paper Title: ENVIRONMENTAL STUDIES Paper Code: * GEN 401 Credits: 6

Job Role: Network Support Engineer

to provide support to users on the network environment to
maintain the network source position and to ensure that the
network is secure and safe.

Instructions for Examiner:

Students are to provide answers to the following questions.
Each question is to be answered in 100 words.
Students are required to attempt all the questions.
Answer questions in your own words.

UNIT-I

Basics of environment: introduction to the environment
and its components.

UNIT-II

Networks and their types. Concepts of LAN, WAN, and
Internet.

UNIT-III

Pollution: Air, water, and noise pollution. Sources of
pollution and its effects.

UNIT-IV

Global environment issues: Air pollution, ozone depletion, global warming, acid rain, deforestation, desertification, loss of biodiversity, depletion of natural resources, global climate change, etc.

Suggested Resources for Reading:

Environmental Pollution: An Introduction, by J. C. Martin, 1989, John Wiley & Sons, New York.
Environmental Quality: A Guide to the World's Best, by G. E. Munn, 1988, Yashwantrao Chavan Pratishthan, Mumbai.
Environmental Conservation: A Practical Approach, by J. C. Martin, 1989, John Wiley & Sons, New York.

References Resources:

Global Environment: A Practical Approach, by J. C. Martin, 1989, John Wiley & Sons, New York.
Air Pollution: A Practical Approach, by J. C. Martin, 1989, John Wiley & Sons, New York.
Water Pollution: A Practical Approach, by J. C. Martin, 1989, John Wiley & Sons, New York.

Suggested Resources for Reading:

ro t / ane nt, Cou ar / t. Gr. H u
ro t / ane nt / ane r a ro ss p a n en E t . C or FGr. r on
t. t v n vrs t

References Resources:

ro ts ann n An. s s t on F n. n n p nt. t on an v . C an r.
r. S. nn.

Paper Title: WINDOWS SERVER ADMINISTRATION
Credits: 6

Paper Code: HWN-403

Job Role: Network Support Engineer

Objective: The objective of this paper is to provide practical knowledge to the students about the various services and tools used in Windows Server environment.

Paper Title: NETWORK ADMINISTRATION & TROUBLESHOOTING

Paper Code: HWN-404 Credits: 6

Job Role: Network Support Engineer

Objective: To provide students with the necessary skills and knowledge to perform network support tasks.

Instructions for examiner:

This is a short-answer type question. The total number of questions is 10. The questions are divided into two units. Unit I contains 5 questions and Unit II contains 5 questions. The questions are of varying difficulty. The questions are to be attempted in the order given. The questions are to be attempted in the order given. The questions are to be attempted in the order given.

UNIT-I

1. Define the term Network Support Engineer. (2 marks)

2. Explain the difference between a Network Support Engineer and a Network Administrator. (2 marks)

3. List the five main components of a network. (2 marks)

4. Describe the role of a Network Support Engineer. (2 marks)

5. Explain the importance of network security. (2 marks)

UNIT-IV

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Practical based on HWN-404

Instructions for practical:

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r t r p r on u t t o n o r t on t t r sp t v p rts n
r s su tt to n n v n v r s t

Suggested Resources for Reading:

CC A C s o C r t t or Asso t tu Gu r E t on r H E u t on
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References Resources:

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UNIT-III

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UNIT-IV

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t n L A

Suggested Resources for Reading:

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↑ o L n n out n n t n tu Gu n n v Lt
CC A C s o C rt t or Asso t tu Gu r E t on r H E u t on
n n C s o t or n Ess nt s Aut or o n. ons

References Resources:

Cr pto n t or ur t r E t on r H E u t on
C s o B n n r s Gu F t E t on Gr H s orn n



B.Voc. (HARDWARE AND NETWORKING)

Semester : V

Paper Title: - Critical Thinking and Elementary Statistics Paper Code: * GEN 501 Credits: 6

Job Role: Network Administrator

Objective to provide information to students about the syllabus and to help them to understand the course content.

Instructions for examiner:

Use the syllabus to provide information to students.

Examine the syllabus to provide information to students. Use the syllabus to provide information to students. Use the syllabus to provide information to students.

Suggested Resources for Reading:

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- L vn . r D. v u n t. t st s or . n. nt r nt H. o n . D

References Resources:

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Paper Title: INTRODUCTION TO RESEARCH METHODOLOGY AND REPORT WRITING

Paper Code: GC 502

Credits: 6

Job Role: Network Administrator

Objective: To evaluate the understanding of the students in the research methodology and report writing.

Instructions for examiner:

The student is to answer any five questions out of the following.

Each question carries 10 marks. Each question is of 100 words. The student is to answer any five questions out of the following. The student is to write the answer in 100 words. The student is to write the answer in 100 words. The student is to write the answer in 100 words.

UNIT I

Research is a systematic and logical investigation to discover new knowledge. It is a process of gathering, analyzing, and interpreting data to answer a question or solve a problem. The research process involves several steps, including identifying a research problem, reviewing the literature, formulating a hypothesis, collecting data, analyzing the data, and drawing conclusions. Research is essential for advancing knowledge in various fields and for solving practical problems.

UNIT II

Research design is a plan or blueprint that guides the researcher in the collection, analysis, and interpretation of data. It is a systematic and logical approach to investigate a research problem. The research design determines the type of data to be collected, the methods to be used for data collection, and the methods to be used for data analysis. The research design is crucial for the success of a research study.

UNIT III

Data collection is the process of gathering information or data for the purpose of research. It is a crucial step in the research process. The data collection method chosen depends on the research problem and the type of data to be collected. The data collection method should be systematic and logical, and it should be able to provide accurate and reliable data.

UNIT IV

Business reports are documents that provide information about a business or organization. They are used to communicate the results of research, analysis, and evaluation. Business reports are essential for decision-making and for improving business performance. The business report should be clear, concise, and easy to understand. It should provide a clear and logical presentation of the information and should be supported by relevant data and evidence.

Suggested Resources for Reading:

Business Statistics: A Practical Approach, 7th Edition, by Douglas A. Young, Jr. and Robert T. Sturges, Jr. © 2008, McGraw-Hill Education

References Resources:

Business Statistics: A Practical Approach, 7th Edition, by Douglas A. Young, Jr. and Robert T. Sturges, Jr. © 2008, McGraw-Hill Education

Paper Title: LINUX OPERATING SYSTEM Paper Code: HWN-503 Credits: 6

Job Role: Network Administrator

Objectives: This course enables students to understand the Linux operating system architecture, installation, configuration, and management. It also covers the Linux environment and the Linux shell.

Instructions for examiner:

This is a short paper and is divided into Five units.
Each unit is of 20 marks. Equations or presentation of questions are unit in unit.
The question is of 10 marks. The question is of 10 marks.

Construction of a unit of work for students to be done in a period of one month.

UNIT -IV

The unit of work for Construction of a unit of work for students to be done in a period of one month. The unit of work for Construction of a unit of work for students to be done in a period of one month. The unit of work for Construction of a unit of work for students to be done in a period of one month.

Practical based on HWN-503

Instructions for practical:

Estimate the cost of our questions over the course of the unit.

Estimate the cost of our questions over the course of the unit.

Estimate the cost of our questions over the course of the unit.

Estimate the cost of our questions over the course of the unit.

Suggested Resources for Reading:

Construction of a unit of work for students to be done in a period of one month.

References Resources:

Construction of a unit of work for students to be done in a period of one month.

Paper Title: VMware Workstation Paper Code: HWN-504 Credits: 6

Job Role: Network Administrator

Objective: The objective of this paper is to provide students with the opportunity to demonstrate their knowledge and skills in the area of VMware Workstation. The paper is designed to assess the student's ability to perform tasks related to the job role of a Network Administrator.

Instructions for examiner:

The student is to use the paper as a guide to the format of the questions. The questions are presented in the form of a list of questions. The student is to answer the questions in the order in which they are presented. The student is to provide a clear and concise answer to each question. The student is to provide a clear and concise answer to each question. The student is to provide a clear and concise answer to each question.

Suggested Resources for Reading:

Costello, C. (2010). *Outstanding: The Hidden Power of the Creative Mind*. New York: HarperCollins.
Gardner, H. (2006). *Five Minds for the Future*. New York: HarperCollins.
Gardner, H. (2003). *Multiple Intelligences: The Theory and Practice of Multiple Intelligences*. New York: HarperCollins.
Gardner, H. (1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: HarperCollins.

References Resources:

Costello, C. (2010). *Outstanding: The Hidden Power of the Creative Mind*. New York: HarperCollins.
Gardner, H. (2006). *Five Minds for the Future*. New York: HarperCollins.
Gardner, H. (2003). *Multiple Intelligences: The Theory and Practice of Multiple Intelligences*. New York: HarperCollins.
Gardner, H. (1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: HarperCollins.

B.Voc. (HARDWARE AND NETWORKING)

Semester : VI

Paper Title: - ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

Paper Code: *GEN 601Credits: 6

Job Role: Network Administrator

Objective: ED s a e t t r e n n r o u s t e r t r o u p s n n t r p r n u r e t r e t s s o t e t t o t e n e q u e t n o r e t o n o t t o n e n u e n n s t t n u p t r o n n t r p r s s

Instructions for examiner:

↑ s e u s o t s p e p r e s n v n t o F v J u n t s

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Paper Title: TOTAL QUALITY MANAGEMENT

Paper Code: GC 602

Credits:6

Job Role: Network Administrator

Objective: The objective of this paper is to provide an opportunity to students to demonstrate their knowledge and understanding of the concepts of Total Quality Management and its application in the context of network administration.

Instructions for examiner:

The student is to use the paper as a guide to the format of the questions. The number of questions to be attempted is indicated in the question paper. The student is to attempt all the questions. The student is to attempt the questions in the order in which they are set out. The student is to attempt the questions in the order in which they are set out. The student is to attempt the questions in the order in which they are set out.

Suggested Resources for Reading:

↑ ot_ε y_ε t / ε.n_ε nt A F n εu / Gr_ε H u εt on
↑ ot_ε y_ε t / ε.n_ε nt ε εn Butt r ort H n εnn Lt or r ss
y_ε t / ε.n_ε nt Con pts εn ↑ εs s εr_ε ε.n_ε r n εs_εn A
nt rn_εt on_ε

References Resources:

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o app t on proto o s

UNIT IV

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s st s FD o r r FD s n t t r pr s nt t on

Practical based on HWN-603

Instructions for practical

E n r s t tot o our qu st ons o r n t o s us
tu nt t pt n t r qu st on

E qu st on r s r s

r t r s r s n r s or pr t or n v v

r t p r on u t t o n o r t on t t r sp t p rts n
r s su tt to n n v r s t

Suggested Resources for Reading:

r ss Co un t ons r n p s r t o or app port H n E n
r ss Co un t on n t or n t n s H
r ss D t Co un t ons o F r H
r n p s o r ss t or s v n n r s n urt rson E u t on

References Resources:

r ss Co un t ons An r s F o s n

Job Role: Network Administrator

Objectives: This paper is intended to assess the knowledge and skills of the candidates in the field of Network Administration.

Instructions for examiner:

- The questions are to be attempted in any order.
- Each question carries 10 marks.
- The questions are to be attempted in any order.
- The questions are to be attempted in any order.
- Answer questions in any order.

UNIT-I

Introduction to Firewall, Host-based Firewall, Application-based Firewall, Network-based Firewall, Proxy Firewall, Stateful Firewall, Intrusion Detection System, Denial of Service Attack, Firewall Configuration, Firewall Management, Firewall Troubleshooting.

UNIT-II

Authentication, Authorization, Accounting, Access Control, Security Policies, Security Auditing, Security Monitoring, Security Incident Response, Security Awareness, Security Training, Security Testing, Security Assessment, Security Risk Management, Security Compliance, Security Governance, Security Architecture, Security Design, Security Implementation, Security Maintenance, Security Review, Security Updates, Security Patches, Security Vulnerabilities, Security Exploits, Security Mitigations, Security Best Practices, Security Standards, Security Frameworks, Security Certifications, Security Regulations, Security Laws, Security Ethics, Security Culture, Security Leadership, Security Change Management, Security Incident Response Plan, Security Business Continuity Plan, Security Disaster Recovery Plan, Security Incident Response Team, Security Incident Response Process, Security Incident Response Tools, Security Incident Response Procedures, Security Incident Response Metrics, Security Incident Response Reporting, Security Incident Response Communication, Security Incident Response Coordination, Security Incident Response Collaboration, Security Incident Response Cooperation, Security Incident Response Cooperation, Security Incident Response Cooperation, Security Incident Response Cooperation.

UNIT-III

Networks, Routers, Switches, Firewalls, Intrusion Detection Systems, Denial of Service Attacks, Security Policies, Security Auditing, Security Monitoring, Security Incident Response, Security Awareness, Security Training, Security Testing, Security Assessment, Security Risk Management, Security Compliance, Security Governance, Security Architecture, Security Design, Security Implementation, Security Maintenance, Security Review, Security Updates, Security Patches, Security Vulnerabilities, Security Exploits, Security Mitigations, Security Best Practices, Security Standards, Security Frameworks, Security Certifications, Security Regulations, Security Laws, Security Ethics, Security Culture, Security Leadership, Security Change Management, Security Incident Response Plan, Security Business Continuity Plan, Security Disaster Recovery Plan, Security Incident Response Team, Security Incident Response Process, Security Incident Response Tools, Security Incident Response Procedures, Security Incident Response Metrics, Security Incident Response Reporting, Security Incident Response Communication, Security Incident Response Coordination, Security Incident Response Collaboration, Security Incident Response Cooperation, Security Incident Response Cooperation, Security Incident Response Cooperation, Security Incident Response Cooperation, Security Incident Response Cooperation.

Internet on Go, attachment patterns, Ant, Dos, Foon, Ant, ports, and E, pt ons, A, n, r, r
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UNIT-IV

rotation, trn, so, r, n, s, o, on, t, s, s, r, t, on, G, o, H, t, t, p, s, o, s
F, t, r, t, on, r, t, or, s, s, t, s, o, n, o, s, n, t, v, r, u, s, t, r, o, F, t, r, p, r, o, s, t, r

Paper Title: IMPLEMENTATION OF ADVANCE IP ROUTING Paper Code: HWN-605
Credits:6

Job Role: Network Administrator

Instruction for examiner:

Examiner's total of our questions over the course of the
tutorial attempt the question
Each question carries 4 marks

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 p nt2t on 2n ▼r 2t on p 2n

UNIT-III

p nt 2n ▼ or ▼ 2s r str ut on so ut on ▼n 2 n t or s n 2n 2 s t o
 r qu r nts Cr 2t 2 r str ut on p nt2t on p 2n 2s upon t r su ts o t r str ut on
 2n2 s s Cr 2t 2 r str ut on ▼r 2t on p 2n Con ur 2 r str ut on so ut on r t 2t 2
 r str ut on 2s p nt Do u nt r su ts o 2 r str ut on p nt2t on 2n ▼r 2t on
 p 2n nt t r n s t n p nt n 2n ▼ 2n ▼ r str ut on so ut on

UNIT-IV

p nt 2 r 2t Contro o ut on Cr 2t 2 2 r p2t ontro p nt2t on p 2n 2s upon
 t r su ts o t r str ut on 2n2 s s Cr 2t 2 2 r p2t ontro ▼r 2t on p 2n Con ur 2 r
 p2t ontro r t 2t 2 2 r p2t ontro 2s p nt Do u nt r su ts o 2 2 r p2t
 ontro p nt2t on 2n ▼r 2t on p 2n p nt 2s t or r 2n r2n s r ▼ s D s r
 ro2 2n t no o s Con ur 2s ro2 2n onn t ons D s r 2s t no o s
 Con ur G E D s r r2n 2 sst no o s

Suggested Resources for Reading:

- CC out n CC E o ▼n. 2 2 2n o ↑ o 2
- CC out n 2n t n 2 C rt Gu 2 r2r Aut or ▼n. 2 2 D2 ▼
- Hu 2 2 on 2 ost . n o u s r C C st
- CC ▼ ↑ G 2n . ↑ CH G ▼ J C r n Aut or D n s Dono u Br nt
 t 2rt u s r C s o pr ss
- CC ▼ ↑ E . Aut or . n C C
- C n , ↑ 2n o os , s , ↑ 2 2 p
 os2 D n s Dono u B r ↑ , oss