

# C. U. SHAH UNIVERSITY

## Winter Examination-2021

**Subject Name: Network Management and Administration**

**Subject Code: 2TE05NMA1**

**Branch: Diploma (CE)**

**Semester: 5**

**Date: 16/12/2021**

**Time: 11:00 To 02:00**

**Marks: 70**

**Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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**Q-1                      Attempt the following questions. (1 mark for each question)                      (14)**

- a) Full form of ISDN is \_\_\_\_\_.  
(A) Integrated System Digital Network  
(B) Integrated Services Digital Network  
(C) Integrated Services Direct Network                      (D) None
- b) What is the full form of PSTN?  
(A) Public Security Telephone Network  
(B) Public Switched Telephone Network  
(C) Private Switched Telephone Network                      (D) None of these
- c) What is the full form of RARP?  
(A) Reverse Active Resolution Protocol  
(B) Reverse Address Resolution Protocol  
(C) Right Address Reserve Protocol                      (D) None
- d) What is the full form of ARP?  
(A) Active Resolution Protocol                      (B) Address Resolution Protocol  
(C) Address Reserve Protocol                      (D) None
- e) What is the full form of DHCP?  
(A) Dynamic Host Control Protocol  
(B) Dynamic Host Configuration Protocol  
(C) Dynamic Host Contribute Protocol                      (D) None
- f) What is the full form of NIC?  
(A) Network Interface Cable                      (B) Network Interface Card  
(C) Network Interior Card                      (C) None
- g) Which approach is used in Active directory?  
(A) Peer approach                      (B) Random approach                      (C) Top down approach  
(D) Bottom up approach
- h) Which type of group exists throughout organization?  
(A) Domain group                      (B) Universal group                      (C) Security group  
(D) Distribution group
- i) What is the full form of DSL?



- (A) Data Service Line (B) Data Subscriber Line  
 (C) Digital Subscriber Line (D) None of these
- j) There are how many types of VPN connections?  
 (A) 4 (B) 3 (C) 2 (D) 1
- k) Which of the following channels are included in ISDN?  
 (A) B channel (B) C channel (C) D channel (D) all of these
- l) Which of the following allows user account permission to create, change and delete any files in the shared folders?  
 (A) Read/ Write (B) Read Only (C) No Access (D) None
- m) Which of the following allows user account permission to only read the files?  
 (A) Read/ Write (B) Read Only (C) No Access (D) None
- n) Which of the following do not allows access of any files in shared folder to user  
 (A) Read/ Write (B) Read Only (C) No Access (D) None

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**  
 a) List out various hardware tools. Explain any two of them in detail. (07)  
 b) List out various software tools. Explain any two of them in detail. (07)
- Q-3 Attempt all questions (14)**  
 a) Explain different types of backup. Write down advantages of windows backup server. (07)  
 b) Write a note on LDAP. (07)
- Q-4 Attempt all questions (14)**  
 a) Explain DHCP Architecture in detail. (07)  
 b) Explain Address Resolution Protocol. (07)
- Q-5 Attempt all questions (14)**  
 a) Explain Active Directory Architecture in detail. (07)  
 b) Explain interaction between client and server in DHCP. (07)
- Q-6 Attempt all questions (14)**  
 a) Write a note on DNS. (07)  
 b) Write a note on Windows NT Domains. (07)
- Q-7 Attempt all questions (14)**  
 a) Write down objectives, advantages and disadvantages of DHCP. (07)  
 b) List out various VPN tunneling protocols. Explain any two of them in detail. (07)
- Q-8 Attempt all questions (14)**  
 a) Write steps to create local account. (07)  
 b) Write steps to install network server. (07)
- Q-1 Attempt the following questions. (1 mark for each question) (14)**  
 a) ISDN જું પૂરું નામ \_\_\_\_\_ છે.  
 (A) Integrated System Digital Network  
 (B) Integrated Services Digital Network  
 (C) Integrated Services Direct Network (D) None



- b) PSTN નું પૂરું નામ શું છે?  
 (A) Public Security Telephone Network  
 (B) Public Switched Telephone Network  
 (C) Private Switched Telephone Network (D) None of these
- c) RARP નું પૂરું નામ શું છે?  
 (A) Reverse Active Resolution Protocol  
 (B) Reverse Address Resolution Protocol  
 (C) Right Address Reserve Protocol (D) None
- d) ARP નું પૂરું નામ શું છે?  
 (A) Active Resolution Protocol (B) Address Resolution Protocol  
 (C) Address Reserve Protocol (D) None
- e) DHCP નું પૂરું નામ શું છે?  
 (A) Dynamic Host Control Protocol  
 (B) Dynamic Host Configuration Protocol  
 (C) Dynamic Host Contribute Protocol (D) None
- f) NIC નું પૂરું નામ શું છે?  
 (A) Network Interface Cable (B) Network Interface Card  
 (C) Network Interior Card (D) None
- g) એકટીવ ડિરેક્ટરી માં કયો અભિગમ વપરાય છે?  
 (A) પીઅર અભિગમ (B) રેન્ડમ અભિગમ (C) ટોપ ડાઉન અભિગમ  
 (D) બોટમ અપ અભિગમ
- h) સમગ્ર સંસ્થામાં કયા પ્રકારનું જૂથ અસ્તિત્વ ધરાવે છે?  
 (A) ડોમેન જૂથ (B) યુનિવર્સલ જૂથ (C) સુરક્ષા જૂથ (D) વિતરણ જૂથ
- i) DSL નું પૂરું નામ શું છે?  
 (A) Data Service Line (B) Data Subscriber Line  
 (C) Digital Subscriber Line (D) None of these
- j) VPN કનેક્શનના કેટલા પ્રકાર છે?  
 (A) 4 (B) 3 (C) 2 (D) 1
- k) નીચેનામાંથી કઈ ચેનલ ISDN માં સમાવિષ્ટ છે?  
 (A) B ચેનલ (B) C ચેનલ (C) D ચેનલ (D) આ તમામ
- l) નીચેનામાંથી કયું વપરાશકર્તા ખાતાને શેર કરેલ ફોલ્ડરમાં કોઈપણ ફાઇલો બનાવવા, બદલવા અને કાઢી નાખવાની પરવાનગી આપે છે?  
 (A) Read/ Write (B) Read Only (C) No Access (D) None
- m) નીચેનામાંથી કયું વપરાશકર્તા ખાતાને ફક્ત ફાઇલો વાંચવાની પરવાનગી આપે છે?  
 (A) Read/ Write (B) Read Only (C) No Access (D) None
- n) નીચેનામાંથી કયું વપરાશકર્તાને શેર કરેલ ફોલ્ડરમાં કોઈપણ ફાઇલોની



એક્સેસની મંજૂરી આપતું નથી?

(A) Read/ Write (B) Read Only (C) No Access (D) None

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**
- a) વિવિધ હાર્ડવેર સાધનોની યાદી બનાવો. તેમાંથી કોઈપણ બેને વિગતવાર સમજાવો. (07)
- b) વિવિધ સોફ્ટવેર સાધનોની યાદી બનાવો. તેમાંથી કોઈપણ બેને વિગતવાર સમજાવો. (07)
- Q-3 Attempt all questions (14)**
- a) બેકઅપના વિવિધ પ્રકારો સમજાવો. વિન્ડોઝ બેકઅપ સર્વરના ફાયદાઓ લખો. (07)
- b) LDAP પર નોંધ લખો. (07)
- Q-4 Attempt all questions (14)**
- a) DHCP આર્કિટેક્ચરને વિગતવાર સમજાવો. (07)
- b) એડ્રેસ રીઝોલ્યુશન પ્રોટોકોલ સમજાવો. (07)
- Q-5 Attempt all questions (14)**
- a) એક્ટીવ ડિરેક્ટરી આર્કિટેક્ચરને વિગતવાર સમજાવો. (07)
- b) DHCP માં ક્લાયન્ટ અને સર્વર વચ્ચેનું ઇન્ટરકેશન સમજાવો. (07)
- Q-6 Attempt all questions (14)**
- a) DNS પર નોંધ લખો. (07)
- b) વિન્ડોઝ એન્ટી ડોમેન્સ પર નોંધ લખો. (07)
- Q-7 Attempt all questions (14)**
- a) DHCP ના ઉદ્દેશો, ફાયદા અને ગેરફાયદા લખો. (07)
- b) વિવિધ VPN ટનલીંગ પ્રોટોકોલ્સની યાદી બનાવો. તેમાંથી કોઈપણ બેને વિગતવાર સમજાવો. (07)
- Q-8 Attempt all questions (14)**
- a) સ્થાનિક એકાઉન્ટ બનાવવા માટે પગલાંઓ લખો. (07)
- b) નેટવર્ક સર્વર ઇન્સ્ટોલ કરવાનાં પગલાં લખો. (07)

