इ रि से ट
टेलिफोनी प्रयोगशाला
प्रयोग नं. टीई – 06

I R I S E T
Telephony Laboratory
Experiment No. TE - 06

नाम **Name** _____

अनुक्रमांक **Roll No.** _____

पाठ्यक्रम **Course** _____

दिनांक **Date** _____

प्राप्त अंक **Marks Awarded**

अनुदेशक का अधाक्षर **Instructor Initial**

PURPOSE: Study of C—DOT PBX exchange.

THEORY: C-DOT PABX in the lab is supplied by RTPL / KOTA and it is 128 port exchange. One Maintenance Console is provided with the exchange for the purpose of giving commands. This Console can be also used as Operator Console for extending Trunk connections.

1) Fill up the following blanks with details:

a)   C-DOT means:

b)   PBX means:

2) What are the types of Peripheral cards used and for what purpose.

3)   What are the types of Control cards used. Give details of card function and mention whether any microprocessor / microcontroller used in each of them.

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4)   Are there any other cards, if yes name them and detail their functions.

5)   What are the voltages generated by PSU card and for what purpose?

6)   What are the types of tones generated in this exchange and by which card.

7)   What are the types of Conferences used in this type of exchange.

8)   Indicate the type of Redundancy used in case of each card.

9)   What is the type of switching system adopted. Indicate the switching arrangement by a
      diagram.

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10)   What is the type of ringing used.

11)   Indicate the port configuration and its flexibility.

12)   What is the purpose of Mother board.

13)   How the maintenance Console is connected to main exchange. What do you understand by.RS232C.

14)   How the different PCB's are connected to Mother Board.

15)   What are the types of Protective systems used in exchange.

16)   What is the power supply given.

17)   Give a diagrammatic position of various cards in exchange.

Review Questions:

1) Only XSC card is used in PBX where as -TIC and RCP both, are used in RAX. Why ?

2) What are the differences between PBX and RAX.

3) What do you understand by the power failure cut through.

4) As an incharge of exchange what are the spares you would like to keep.

Date: Signature of Trainee

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प्रयोग नं. टीई – 07

I R I S E T
Telephony Laboratory
Experiment No. TE - 07

नाम **Name** _____

अनुक्रमांक **Roll No.** _____

पाठ्यक्रम **Course** _____   प्राप्त अंक **Marks Awarded**

दिनांक **Date** _____   अनुदेशक का अधाक्षर **Instructor Initial**

PURPOSE: To be able to explain the different branches in MMI Tree of C-DOT, 128 P PBX and to acquaint with the operation of Maintenance Panel cum Operator Console.

1.   Draw the Maintenance Panel and identify the, keys.

2.   Operate the keys in the following order and write the message displayed.

a)

Key Pressed	Message Displayed
A	---
NXT	---
NXT	---
ENT	---
ENT	---
ENT	---
208	---
ENT	---
NXT	---
NXT	---
NXT	---

NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
ADV	---
ENT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
RELEASE	---
RELEASE	---
NXT	---
ENT	---
1	---

-

ENT	---
ENT	---
ENT	---

R	---
R	---
NXT	---
ENT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
NXT	---
R	---
NXT	---
ENT	---
ENT	
R	---
P	---
P	---
P	---
R	---

b)

Key Pressed	Message Displayed
E	---
208	---
R	---
J	---
TFR	---

Review Questions :

1) How the 'P' key is different with NXT key ?

2) Which key is working as 'Select' function also ?

3) How 'ADVANCE' key is helpful in Maintenance.

Date: **Signature of Trainee**

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I R I S E T
Telephony Laboratory
Experiment No. TE - 08

नाम **Name** _____

अनुक्रमांक **Roll No.** _____

पाठ्यक्रम **Course** _____   प्राप्त अंक **Marks Awarded**

दिनांक **Date** _____   अनुदेशक का अधाक्षर **Instructor Initial**

Purpose: Study of C-DoT 128 Port PBX - Maintenance Commands.

Theory: This experiment deals with the programming portion. It also enables one to understand the use of Operator Console both as trunk board and also as Maintenance **P**anel for software programming. The Operator Console is connected to XSC card of the equipment through RS 232C.

1. Execute the given tasks and write the sequence of and the messages displayed.
   a) Write the display of Wall Clock.

   b) Change the display to Present date.

   c) Find out the Class of Service features of Extensions 209, 210 and 211.

   d) Give and verify the Conference facility between 208, 209 210 and 211.

   e) Give and verify Morning Alarm facility to subscriber No. 210.

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f) Make a Hunt group with 208, 209, 210, 211 under Pilot No. 611 and verify hunting when busy condition and also hunting when no response.

g) Delete the Hunt group under Pilot No. 611.

2. **Programming a trunk**

In programming a trunk the following steps are to be followed.

1. Create a Tie Group (TG).
2. Tie Group Nos. should be between 1 and 15.
3. Add Trunk ports to the TG.
4. Activate the TG.
5. Define a Route ID for this TG.
6. Route ID should be between 801 and 899.

Now the TG is accessed by dialing the Route ID assigned to it.

Review Questions

1) What do you understand by DND (Others) and DND (Self) under CoS2 ?

2) Create a Hunt Group 600 with extensions 200, 201 & 202 and verify its working ?

Signature of the Trainee

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I R I S E T
Telephony Laboratory
Experiment No. TE - 8A

नाम **Name** _____

अनुक्रमांक **Roll No.** _____

पाठ्यक्रम **Course** _____   प्राप्त अंक **Marks Awarded**

दिनांक **Date** _____   अनुदेशक का अधाक्षर **Instructor Initial**

Purpose: Study of C-DOT 128 P PBX - Maintenance Console.

Theory: This experiment deals with the programming of a new extension and setup the special facilities. The Telephone directory numbers are to be between 100 to 699. The port numbers in this exchange are from 128 — 255.

1. Execute the given tasks and write the sequence of keys pressed and messages displayed   -

a. Find out the listed directory numbers and their port numbers from 200 onwards.

b. List out the port configuration

    Tone ports   --

    RMF ports   --

    Conference ports   --

    Trunk ports   --

    Line ports   --

c. Add an extension of your choice with the available spare port and verify by connecting a telephone on the MDF

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d. Give DND facility to the new extension and verify from 208, 209, 210 and 211.

e. Delete the extension number you have programmed.

▪ **Review Questions**

1. When do you use the "Spare ports " commands in the course of Maintenance.

2. Explain why DND is not working when dialled from extensions.

Signature of the Trainee