



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING, KANCHEEPURAM**
(An Institute of National Importance under the Ministry of Education, Govt. of India)

Level -3 : Trade / Practical Test

Name of the Post: Junior Technician - CSE

Date of Examination: 30/11/2025 | Time: 2 Hr (120 Minutes) | Maximum Marks: 40 Marks

Application Number: _____

Signature: _____

PART-A

30 Marks

1. Write a shell script or list of commands on a Linux/Ubuntu machine to create five users (user1–user5) with passwords, assign each user a default home directory (/home/usr1 for user1, /home/usr2 for user2, and so on), set password expiry for user2 to user5 to 2 hours while ensuring user1 has no password expiry, and grant sudo permissions to user1 with password authentication. Demonstrate the execution and output of the script. **(10 Marks)**
2. Configure a network printer on an Windows machine using LAN mode, and then perform a test print to verify that the printer has been successfully configured. **(5 Marks)**
3. Configure a static IP, subnet mask, and default gateway on Ubuntu, and verify connectivity by pinging 172.16.13.225. **(5 Marks)**
4. Prepare both ends of the provided Cat6/Cat6A cable by attaching RJ-45 connectors using the correct wiring standard, and then verify the cable's continuity and connectivity. **[10 Marks] (Max Time:20 Minutes)**



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PART-B

5*2=10 Marks

5. Perform the following tasks in Ubuntu in presence of Examiner (Max:15 Minutes)

- a. Show how you will trace the path from the localhost to the domain iiitdm.ac.in to diagnose network latency and routing issues
- b. Command to delete a directory with files without any prompts
- c. Print the first 3 lines of /etc/passwd
- d. Command to display information about how much space remains on mounted file systems
- e. Command to install net tools packages in ubuntu

Candidate Signature :

Examiner Signature: