Telecom Technician - IoT Devices/Systems
TEL/Q6210 Version-5.0 Level-4

Job Role Name QP Code		Batch Name/Id	
Duration:		Max Marks:	**110**
Name of Candidate		Candidate Signature	
Assessor Name		Aadhaar Number	
Assessor Signature		Trainer Signature	
TP Name		TC Name	
TP/TC Stamp with Signature		Date	

Instruction:

1. All questions are compulsory
2. The question papers consist of MCQ.
3. You will be given 60 minutes
4. Please read all questions carefully
5. There is no negative marking

TEL/N6234.Install and configure IoT devices at customer premises

1. Which component is essential for connecting an IoT device to the customer's network for remote monitoring?   **(4Marks)**
A. Cooling fan
B. Heat sink
C. Network interface module
D. RF transceiver

2. What is the primary reason for performing a site survey before installing IoT sensors?
(4Marks)

A. To assess signal strength and coverage
B. To calculate product warranty
C. To reduce packaging cost
D. To check the device color

3. Which protocol is most commonly used for securely onboarding IoT devices to the network?   **(4Marks)**
A. POP3
B. MQTT with TLS
C. Telnet
D. FTP

4. During installation, what should a technician configure to ensure the IoT device communicates with the cloud platform?   **(4Marks)**
A. USB transfer mode
B. Device wallpaper

C. Battery percentage
D. IP addressing or Wi-Fi credentials

5. What is the purpose of firmware updates during IoT device configuration? (4Marks)
A. Enhance performance and fix vulnerabilities
B. Reduce power supply rating
C. Change device color theme
D. Improve screen brightness

6. Which tool is commonly used to verify network connectivity after installing an IoT device?
(5Marks)
A. Calendar app
B. Paint application
C. Ping/Network diagnostic tool
D. Calculator

7. When mounting a sensor, which factor should a technician consider to ensure accurate data collection? (5Marks)
A. Warranty period
B. Ambient temperature and placement orientation
C. Decorative appearance
D. Device packaging design

TEL/N6236.Perform level 1 troubleshooting of IoT devices
8. What is the first step in Level-1 troubleshooting when an IoT device becomes unresponsive?

(2Marks)

A. Replace the network modem
B. Modify device firmware manually
C. Reinstall the operating system
D. Check power supply and device connectivity

9. Which basic test helps verify whether the IoT device is reachable over the network? (4Marks)
A. Rebooting the router repeated
B. Performing a ping test
C. Checking warranty status
D. Changing device label

10. During troubleshooting, what should a technician inspect if data from a sensor is inaccurate?
(4Marks)
A. Sensor placement and calibration
B. Device packaging material
C. Color of wires
D. Warranty seal

11. What common issue can be fixed by simply restarting an IoT gateway device? (4Marks)
A. Permanent hardware damage
B. Temporary communication freeze
C. Broken circuit board
D. Battery swelling

12. If an IoT device is not connecting to Wi-Fi, what should be checked first?   (4Marks)
A. Correct SSID and password
B. Device outer design
C. Screen brightness
D. USB charging mode

13. Which log type is useful for identifying frequent device disconnections?   (4Marks)
A. Shopping logs
B. Event or system logs
C. Temperature logs of storage room
D. Cleaning schedule logs

14. When a device shows low signal strength, what can help resolve the issue?   (4Marks)
A. Changing device wallpaper
B. Replacing the device label
C. Repainting the installation area
D. Moving device closer to the access point

15. If a device repeatedly reboots, which Level-1 troubleshooting action is appropriate?

(4Marks)
A. Check for loose cables or unstable power
B. Replace all internal components
C. Reprogram the motherboard
D. Change device enclosure

TEL/N9105.Follow sustainable practices in telecom infrastructure installation
16. What is the main purpose of using energy-efficient tools during telecom installation?

(2Marks)
A. Improve device color accuracy
B. Reduce overall power consumption
C. Increase packaging size
D. Enhance cable thickness

17. Why should technicians segregate electronic waste after an installation job?   (4Marks)
A. To prepare items for resale
B. To speed up cable routing
C. To reduce the number of toolkits
D. To ensure proper recycling and disposal

18. Which practice helps minimize material wastage during infrastructure setup?   (4Marks)
A. Cutting cables without measurement
B. Using pre-planned cable lengths
C. Discarding unused cable ends
D. Installing extra hardware units

19. How can technicians reduce carbon footprint during field visits?   (4Marks)
A. Using fuel-heavy personal vehicles
B. Making multiple unnecessary trips
C. Planning optimized travel routes
D. Driving at maximum speed

20. What is the benefit of using renewable-energy-powered equipment at telecom sites?

(4Marks)

A. Increases installation time
B. Enhances sustainability and reduces emissions
C. Reduces network range
D. Makes devices heavier

21. Why should technicians prefer reusable packaging materials?   **(4Marks)**
A. They look more colorful
B. They are easier to throw away
C. They make installation slower
D. They reduce environmental impact

22. Which sustainable practice helps reduce power consumption at installed telecom sites?

(4Marks)

A. Keeping devices powered unnecessarily
B. Configuring sleep or low-power modes
C. Using outdated batteries
D. Increasing antenna power levels continuously

23. What should be done with damaged metal mounting brackets during installation? (4Marks)
A. Burn them on-site
B. Dispose them in regular trash
C. Send them for metal recycling
D. Store them permanently in warehouse

DGT/VSQ/N0101.Employability Skills (30 Hours)
24. Which communication skill helps a technician explain technical issues clearly to customers?

(2Marks)

A. Speaking faster
B. Using complex jargon
C. Ignoring queries
D. Active listening

25. What is the main benefit of teamwork for a telecom technician?   **(3Marks)**
A. Enhances work efficiency
B. Increases conflicts
C. Limits knowledge sharing
D. Reduces coordination

26. Time management ensures a technician can: **(3Marks)**
A. Ignore critical calls
B. Complete jobs within deadlines
C. Increase idle time
D. Delay all tasks

27. Which soft skill is essential for resolving customer complaints calmly?   (3Marks)
A. Empathy
B. Aggressive tone
C. Impatience
D. Blame shifting

28. Why is continuous learning important in the IoT domain?   (3Marks)
A. Makes work monotonous
B. Helps keep skills updated
C. Reduces job responsibility
D. Technologies remain unchanged

29. What should a technician do when unsure about a technical procedure?   (3Marks)
A. Guess and proceed
B. Delay the task indefinitely
C. Refer to manuals or ask a senior
D. Ignore instructions

30. Which attribute helps a technician maintain professionalism at the workplace? (3Marks)
A. Punctuality and discipline
B. Casual approach to tasks
C. Frequent absenteeism
D. Disregarding rules

Answer key

1	C	11	B	21	D
2	A	12	A	22	B
3	B	13	B	23	C
4	D	14	D	24	D
5	A	15	A	25	A
6	C	16	B	26	B
7	B	17	D	27	A
8	D	18	B	28	B
9	B	19	C	29	C
10	A	20	B	30	A