

March 2026

Sri Mahalingeswara ITI

Question Paper

Duration: 30 Mins

Total Marks: 28

ID: ITISKILL1665S3

Student Name: _____	Roll No: _____
---------------------	----------------

1. What is the full of the abbreviation DPDT used in switches?

- A) Dual Phase Dual Throw B) Double Pole Double Throw
C) Direct Pole Double Throw D) Double Pole Direct Throw

2. What is the effect of shaking the soldered joint while cooling?

- A) It will corrode the joint B) It results in oxidation of solder
C) Flux will not dissolve D) It disturbs the chemical bonding take place

3. What is the additional advantage of rosin flux used for soldering electronic components?

- A) Inorganic acid in nature B) It is a chemical paste
C) It is non-conductive D) It is good conductor

4. Which tool works on the principle of air suction?

- A) Soldering wick B) Soldering iron
C) Desoldering pump D) Desoldering braid

5. What is produced by the power supply connected soldering iron?

- A) Fire B) Heat
C) Water vapour D) Cool air

6. Why the plunger desoldering tool needs periodical cleaning?

- A) To help the joint to be soldered B) To melt the solder quickly
C) To prevent clogging of the nozzle D) To remove the flux collected in chamber

7. Which bonding material is used for soldering a joint?

- A) Acid B) Flux
C) Grease D) Oil

8. When does the rosin flux melts in a soldering process?

- A) After the solder melts B) When the solder is heated
C) During the solder is melting D) When the solder is melting

9. Which soldering instrument has hot air blowing facility?

- A) Wave soldering machine B) Temperature controlled soldering iron
C) Soldering station D) Soldering iron

10. What is the purpose of flux in soldering electronic circuit components?

- A) Form the oxide layer B) Reduce the solder cooling time
C) Increase the melting temperature of solder D) Dissolve the oxide layer on the metal surface

11. What is the effect of over heating on soldering a joint?

- A) Poor wetting B) Dull grainy surface
C) Flux trapped against lead D) Cold joint

12. What is the result of forced air is blown to cool the joint while soldering?

- A) Joint becomes mechanically stronger B) Results in dry brittle joint
C) Disturbs the chemical bonding D) Solder setting very slowly

13. At which temperature the 6040 solder start meeting?

- A) 380 Degree Centigrade B) 100 Degree Centigrade
C) 200 Degree Centigrade D) 300 Degree Centigrade

14. Which ratio of tin-lead combination is used for electronic component soldering work?

- A) 40:60 B) 63:37:00
C) 20:40 D) 60:40:00

15. What is the full form of the abbreviation SPDT used in switches?

- A) Single Pole Double Throw B) Single Phase Dual Throw
C) Shared Pole Double Throw D) Single Pole Single Throw

16. What is the defect on the soldered joint, if it is cooled by blowing air?

- A) Pits and voids B) Dry solder joint

- C) Poor wetting D) Dull grainy surface

17. Which gauge number of rosin-cored solder is suitable for soldering medium sized joints?

- A) 22 gauge rosin cored B) 18 gauge rosin cored
C) 16 gauge rosin cored D) 24 gauge rosin cored

18. What is the name of defect if the flux is unable to remove the tarnish from the soldered joint?

- A) Poor wetting B) Cold joint
C) Pits and voids D) Dull gravity surface

19. How the thick layers of oxide is removed before doing the soldering activity?

- A) Use Isopropyl Alcohol B) Apply flux
C) Use abrasive method D) Clean normally

20. Why the solvent Iso Propyl Alcohol (IPA) is used on the solder joint?

- A) Cleaning before soldering the joint B) To help the corrosive action
C) Remove residual flux and prevent corrosion D) To break down the acid within the joint

21. Which type of soldering is used for electronic circuit?

- A) Brazing B) Hard soldering
C) Soft soldering D) Hot soldering

22. Which step is important for soldering a joint?

- A) Cleaning the joint B) Pasting the joint
C) Heating the joint D) Cooling the joint

23. What is the name of flux used for soldering electronic components?

- A) Mild acid B) Organic acid
C) Rosin D) Resin

24. What is the range of temperature used in soldering station?

- A) 600 Degree Centigrade to 800 Degree Centigrade B) 150 Degree Centigrade to 450 Degree Centigrade
C) 800 Degree Centigrade to 1000 Degree Centigrade D) 450 Degree Centigrade to 600 Degree Centigrade

25. How is the soldering method used for joining large metal called?

- A) Soft soldering B) Hot soldering
C) Brazing D) Welding

26. How much time is required to make a quality soldered joint using soldering iron?

- A) 10 - 15 seconds B) 3 - 7 seconds
C) 15 - 20 seconds D) 7 - 10 seconds

27. How the flux residue is removed after soldering a joint?

- A) Isopropyl alcohol B) Organic flux
C) Petrol D) Water

28. How many types of soldering is used for joining metal surfaces?

- A) Three B) Four
C) Five D) Two