

Wire joints Soldering and UG cables

1. What is the effect on molten solder due to repeated melting?

- A: Tin content reduced
- B: Lead content reduced
- C: Prevent slug formation
- D: Even solder flowing in joints

Answer: A

2. What is the use of Britannia 'T' joint?

- A: Extending the length of the lines
- B: Inside and outside wiring installation
- C: Mechanical stress not required on conductor
- D: Tapping the service connection from overhead lines

Answer: D

3. What is the name of the joint as shown in the figure?



- A: Married joint
- B: Scarfed joint
- C: Western union joint
- D: Britannia straight joint

Answer: A

4. How many electrons are there in the valence shell of a copper atom?

- A: 1
- B: 2
- C: 8
- D: 18

Answer: A

5. Why must the soldering iron be kept in a stand when not in use?

- A: It prevents burns and fire
- B: To control excessive heat
- C: To save time
- D: To avoid dry soldering

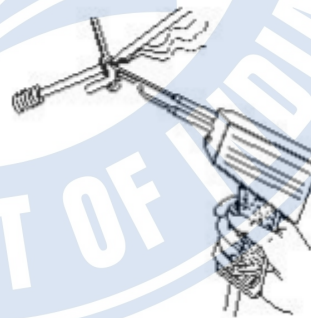
Answer: A

6. What is the possible range to measure the size of the wire in a Standard Wire Gauge (SWG)?

- A: 0–44
- B: 0–42
- C: 0–38
- D: 0–36

Answer: D

7. What is the name of the soldering method as shown in the figure?



- A: Dip soldering
- B: Soldering iron
- C: Soldering gun
- D: Soldering with flame

Answer: C

8. What is the purpose of additional covering over the insulation of insulated conductor?

- A: Increase dielectric strength

- B: To reduce the conductor resistance
- C: To reduce the power loss
- D: To increase the voltage drop

Answer: A

9. Which test is conducted to locate the faults in U.G. cables?

- A: Loop test
- B: External growler test
- C: Breakdown voltage test
- D: Insulation resistance test

Answer: A

10. What is the size of the neutral core of a 90 sq. mm 3½ core U.G cable?

- A: 45 sq.mm
- B: 50 sq.mm
- C: 70 sq.mm
- D: 90 sq.mm

Answer: A

11. Which is a semiconductor material?

- A: Eureka
- B: Ebonite
- C: Manganin
- D: Germanium

Answer: D

12. Which effect of the electric current takes place in the neon lamp?

- A: Heating effect
- B: Magnetic effect
- C: Chemical effect

- D: Gas ionization effect

Answer: D

13. What is the cause for cold solder defect in soldering?

- A: Excessive heating
- B: Insufficient heating
- C: Incorrect usage of flux
- D: High wattage soldering iron

Answer: B

14. Which type of soldering flux is used for soldering aluminium conductors?

- A: Tallow
- B: Kynal flux
- C: Zinc chloride
- D: Sal ammonia

Answer: B

15. Full form of XLPE cable?

- A: Cross Line Poly Ethylene
- B: X'ess Line Phase Earthing
- C: Cross Linked Poly Ethylene
- D: Excess Length Paper and Ebonite

Answer: C

16. What does the number 1.40 represent if a stranded conductor is designated as 7/1.40?

- A: Area of cross section
- B: Radius of one conductor
- C: Diameter of all conductor
- D: Diameter of each conductor

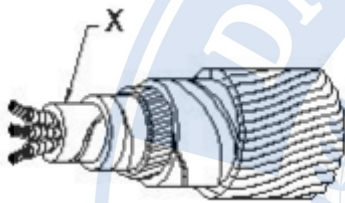
Answer: D

17. What is the advantage of the stranded conductor over the solid conductor?

- A: Cost is less
- B: More flexible
- C: Less voltage drop
- D: More insulation resistance

Answer: B

18. What is the name of the part marked 'X' in UG cables as shown in the figure?



- A: Serving
- B: Bedding
- C: Armouring
- D: Lead sheath

Answer: D

19. What is the disadvantage of solid conductor compared to stranded conductor?

- A: Less rigidity
- B: Less flexibility
- C: Low melting point
- D: Low mechanical strength

Answer: B

20. What will happen to PVC insulation in cable carries excess current continuously for long period?

- A: Voltage drop increases
- B: Voltage drop decreases
- C: Insulation resistance increases
- D: Insulation resistance decreases

Answer: D

21. Which is the property of a good conductor?

- A: Low specific resistance
- B: High dielectric strength
- C: High specific resistance
- D: Low mechanical strength

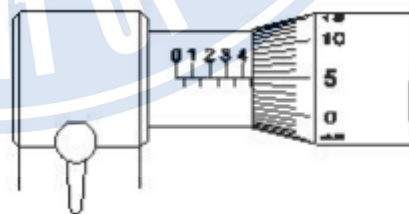
Answer: A

22. Which part of the underground cable is protecting the metallic sheath against corrosion?

- A: Serving
- B: Bedding
- C: Armouring
- D: Lead sheath

Answer: B

23. What is the reading of the micrometer as shown in the figure?



- A: 5.05 mm
- B: 5.00 mm
- C: 4.55 mm
- D: 4.05 mm

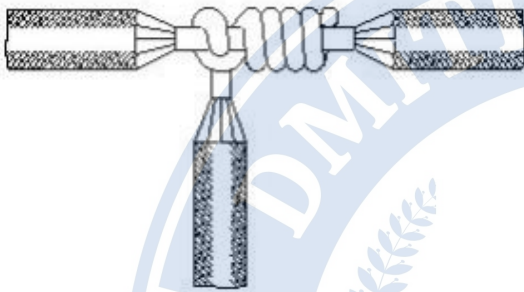
Answer: C

24. What is the use of dipsoldering method?

- A: Hard soldering
- B: Piping and cable work
- C: Soldering miniature components on PCB
- D: Soldering of tin sheets

Answer: C

25. What is the name of the wire joint as shown in the figure?



- A: Aerial tap joint
- B: Knotted tap joint
- C: Duplex cross tap joint
- D: Double cross tap joint

Answer: B

