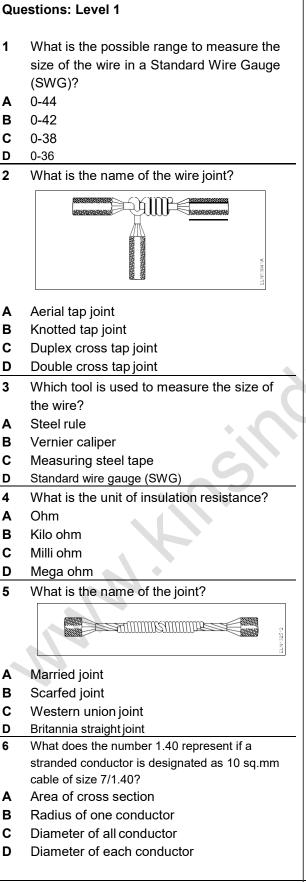
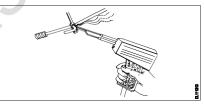
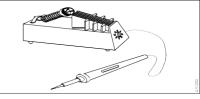
## Electrician - Block 1 - Module 3 : Wire joints - Soldering



- **7** What is the value of electrical conductivity of aluminium conductor?
- **A** 61 mho/m
- **B** 56 mho/m
- **C** 35 mho/m
- D 28 mho/m
- 8 What is the rating factor of cable provided with coarse excess current protection?
- **A** 1.11
- **B** 1.23
- **C** 0.81
- **D** 0.707
- **9** What is the accuracy (or) least count of the outside micrometer?
- **A** 0.01 mm
- **B** 0.001 mm
- **C** 0.002 mm
- **D** 0.02 mm
- 10 What is the name of the soldering method?



- A Dip soldering
- **B** Soldering iron
- **C** Soldering gun
- D Soldering with flame
- **11** Which size of conductor is bigger in diameter, when it is measured by SWG?
- **A** 14 SWG
- **B** 18 SWG
- **C** 21 SWG
- **D** 36 SWG
- **12** What is the name of the soldering method?



- A Dip soldering
- **B** Soldering with blow lamp
- **C** Soldering with soldering gun
- D Temperature controlled soldering

- **13** What is the expansion of AWG?
- A American Wire Gauge
- **B** American Wire Grade
- C American Wire Group

**D** American Wire Guard

Qu	estions: Level 2	8	What is the effect on molten solder due to
			repeated melting?
1	What is the current carrying capacity of 32	Α	Tin content reduced
	amp.rated cable, if it is protected by the	в	Lead content reduced
	rewirable fuse?	С	Prevent slug formation
Α	13 Amp	D	Uneven flowing in joints
в	16 Amp	9	Why the soldering iron must be kept into a
С	26 Amp		stand that not in use while soldering?
D	39 Amp	Α	It prevents burns and fire
2	Which type of soldering flux is used for	в	To control the excessive heat
	soldering galvanised iron?	С	To save the time of soldering process
Α	Rosin	D	To save the operator from electric shock
в	Zinc chloride	10	Which type of wire joint is found in the
С	Sal ammonia		junction box?
D	Hydrochloric acid	Α	Aerial tap joint
3	Which method of soldering is used for	в	Plain tap joint
	quantity production and for tinning work?	С	Rat tail joint
Α	Dip soldering	D	Married joint
в	Soldering with a flame	11	What is the use of Britannia 'T' joint?
С	Soldering with soldering iron	Α	Extending the length of the lines
D	Soldering with soldering gun	В	Inside and outside wiring installation
4	Which method of soldering is widely used for soft	c	Mechanical stress not required on conductor
	soldering?	D	Tapping the service connection from
Α	Dip soldering		overhead lines
В	Soldering iron	12	Which type of soldering method is used for
С	Soldering gun		servicing and repairing work?
D	Soldering with a flame	Α	Dip soldering
5	Which electrical device is the coarse excess	В	Soldering with a flame
	current protection?	c	Soldering with soldering gun
Α	Cartridge fuses	D	Soldering with a soldering iron
В	Rewirable fuses	13	What is the use of dipsoldering method?
С	Miniature Circuit Breaker (MCB)	A	Soft soldering
D	High Repturing Capacity (HRC) Fuses	В	Piping and cable soldering work
6	Which type of joint is used for extending the	c	Soldering miniature components on PCB
	length of conductor in over head lines?	D	Soldering sensitive electric components
Α	Scarfed joint	14	Which type of joint is used in over head
В	Aerial tap joint	14	
С	Britannia "T" joint	~	lines for high tensile strength?
D	Western Union joint	A B	Scarfed joint Britannia (T' joint
7	Which type of soldering flux is used for	Б С	Britannia 'T' joint Western union joint
	soldering aluminum conductors?		Britannia straight joint
Α	Tallow	D	Dinanina straight joint
В	Ker-al-lite		
С	Zinc chloride		
D	Sal ammonia rosin		

15	What is the reading of the micrometer?	21	What is the cause for cold solder defect in
			soldering?
	01234 10	Α	Excessive heating
	5	в	Insufficient heating
		С	Incorrect use of solder
		D	High wattage soldering iron
		22	Which solder is used for soldering aluminium
A	5.05 mm		conductors?
В	5.00 mm	Α	Fire solder
С	4.55 mm	в	Coarse solder
D	4.05 mm	С	Timmer's solder
16	Which method of soldering is used for repairing	D	ALCAP solder
	the vehicle body?	23	Which conductors are used for distribution lines?
Α	Dip soldering	A	Insulated conductors
В	Soldering with flame	В	Insulated solid conductors
С	Soldering with soldering iron		
D	Soldering with soldering gun	C	Bare conductors
17	What is the advantage of stranded	D	Two core cable
	conductor over solid conductor?		
Α	Cost is less		
В	More flexible		+. ( ) ·
c	Less voltage drop		
D	More insulation resistance		
18			
10	What is the current capacity of the 16 Amp.		
	Cable, if it is protected by coarse excess		
_	current protection?		
Α	11 A		
В	13 A		
С	15 A		
D	18 A		
19	What is the disadvantage of solid conductor		
	compared to stranded conductor?		
Α	Less rigidity		
В	Less flexibility		
С	Low melting point		
D	Low mechanical strength		
20	Which type of wire joint is suitable for low current		
•	circuits only?		
A	Knotted tap joint		
В	Plain tap joint		
С	Aerial tap joint		
D	Double cross lap joint		

### **Questions: Level 3**

- 1 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
- 2 Which is to be added to recondition the solder?
- A Tin
- B Zinc
- C Lead
- D Rosin
- 3 What happens If stranded cables are cut to insert to an under sized hole of wiring accessory, what will happen?
- A Loose connection
- **B** Overheat on load
- **C** Faulty circuit

**D** Overload

- 4 What is the effect of accelerated cooling of soldering?
- **A** Tin content will be reduced
- B Lowers mechanical strength
- C Joint oxidises
- D Splashing of solder

# Module 3 : Wire joints - Soldering- Key paper

#### Questions: Level 1

### **Questions: Level 2**

**Question: Level 3** 

SL.No	Key
1	D
2	В
3	D
4	D
5	A
6	D
7	С
8	В
9	А
10	С
11	А
12	D
13	А

1       C         2       D         3       A         3       A         4       B         5       B         6       D         7       B         8       A         9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C         21       B	SL.No	Key		SL.No	Key
3       A         4       B         5       B         6       D         7       B         8       A         9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					D
4       B         5       B         6       D         7       B         8       A         9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					A
5       B         6       D         7       B         8       A         9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				4	В
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8       A         9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					
9       A         10       C         11       D         12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					
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11     D       12     C       13     C       14     C       15     C       16     B       17     B       18     B       19     B       20     C					
12       C         13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C					
13       C         14       C         15       C         16       B         17       B         18       B         19       B         20       C	11				
14       C         15       C         16       B         17       B         18       B         19       B         20       C	12	С		$C^+$	
15       C         16       B         17       B         18       B         19       B         20       C	13	С			
16         B           17         B           18         B           19         B           20         C	14	С	XX		
17         B           18         B           19         B           20         C	15	С			
18         B           19         B           20         C	16	В			
19         B           20         C	17	В			
20 C	18	В			
	19	В			
21 B	20	С			
	21	В			
22 D	22	D			
23 C	23	С			

SL.No	Key
1	D
2	A
3	В
4	В