Question Booklet No.

001324

Skill Development and Entrepreneurship Department Directorate of Vocational Education and Training Directorate of Skill Development, Employment and Entrepreneurship Question Paper Group Name: ELECTRICAL

Question Paper Post Names: Craft Instructor – Electrician, Wiremen

	Duration: 60 Minutes	Total Questions: 40
	INSTRUCTIONS	
1.		arting to answer. If candidate finds any problem
2.	Candidate has to write his/ her seat number in this block.	
3.	 The Question Booklet Number as printed above should be mention the appropriate place on the OMR Answer Sheet. 	oned at
4.	All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate should select the most correct Option and mention the Option Number on the OMR Answer Sheet in front of the respective Question Number by fully shading the Option Number with <u>BLACK INK BALL POINT PEN</u> Only.	
5.	All Questions carry equal marks i.e. 1 Question has a weightage of for the examination and solve the questions accordingly.	1 marks. Candidate should mind the available time
6.	The option shaded once on the OMR Answer Sheet should not candidate should take utmost care while marking their options cattempt to rough/ change options shall not be checked by the authors.	on OMR Answer Sheet. Such changes if any or any
7.	Marks shall be awarded to the correct answers only during the ev be deducted for registering wrong answers (shading wrong option NEGATIVE MARKING SYSTEM.	
8.	All the rough work has to be done on the sheet provided for R anything on the Question Paper Booklet, OMR Answer Sheet or a means and entitle for action under "Prohibition of Unfair Practices"	any other Paper Sheet shall be treated as an unfair
9.	Method of Shading the Correct Option on the OMR Answer Sheet:	
	Q.No. 25.How many Centimeters make 1 Meter?	
	\	100
The	(3) 1000 (4) ne Correct Option for this Question is (1) and hence the (2) option on	10000
	lumber 25 has to be shaded as following	the OMR Answer Sneet in front of Question
	$\bigcirc \bullet \bigcirc \bigcirc$	$\varnothing \otimes \bigcirc \bigcirc$
	Correct Method of Shading	Wrong Method of Shading
	USE ONLY BLACK INK BALL POI	
Г	IMPORTANT	

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THIS QUESTION PAPER BOOKLET AND PART - 1 OF OMR ANSWER SHEET HAVE TO BE SUBMITTED TO THE INVIGILATOR AFTER THE EXAMINATION.

	ractional horse power single phase me pairs. The first step you will do is	notor is to be carried from its foundation to the work bench
	1. Remove foundation bolt	2. Remove terminal connections
	3. Remove fuses	4. Switch off the motor
2. If y	ou observe a person receiving an ele	ectric shock, first step you will ensure to
	1. Switch off the supply that is far a	2. Move the person with bare hands
	3. Push or pull the victim away from the point of conduct of live equipment without causing serious injury to the victim using rubber gloves.	
	4. Loosen his cloths.	
	person after electrocution has receincitation is employed.	ved burn & injury in the chest, then following method of
	1. Mouth to mouth method of resuscitation 2. Schafer's method	
	3. Nelson's Method	4. Schafer's & Nelson's method simultaneously.
4. Th	e symbol for indicating the DC type o	f measuring instrument is
	1. ~ 2.	
	3. 4	
5. co	lour of wire used to indicate positive	terminal of DC voltage supply is
	1. Black	2. Blue
	3. Red	4. Green
6. Ho	ow much current will flow, through a	230v, 200w lamp, when connected to 230 v supply?
	1. 0.68 A	2. 0.86 A
	3. 0.34 A	4. 0.43A

	Ω , 20 Ω and 30 Ω respectively are connected in series. I ₁ , ough these resistances. I is the total current of this , I ₂ & I ₃ is	
1. l=l ₁ +l ₂ +l ₃	2. I = I ₁ -I ₂ -I ₃	
3. I=I ₁ +I ₂ -I ₃	4. I=I ₁ -I ₂ +I ₃	
8. Three resistances of value 50 Ω , 100 Ω and the resistance of this circuit is	nd 20 Ω are connected in parallel. The effective value of	
1. 2.58	2. 2.85	
3. 35	4. 53	
9. Which of the following material will have	highest resistance?	
1. Steel	2. Nichrome	
3. Copper	4. Aluminum	
10. The magnetic lines in a bar magnet originate from 1. North pole & enter to south pole 2. South Pole & enter to North Pole		
	4. Center & enter to South Pole condary battery, acid is added when specific gravity of	
1. 2150	2. 2510	
3. 1250	4. 1520	
12. The flatness of the surface is checked by	,	
1. File	2. Try square	
3. Center Punch	4. Odd leg caliper	
13. For cutting the soft material such as broused	nze, brass, soft steel, hacksaw blade of pitch is	
1. 1.8 mm	2. 1.4 mm	
3. 0.8 mm	4. Any of the above	

14. The tool used to mark a parallel line with reference to a datum edge is				
1. die	2. Chisel			
3. Odd leg caliper	4. Drill			
15. Insulation resistance of dried winding should be				
1. More than 100 Ω and less that 2	200 Ω 2. More than 500 Ω and less that 600 Ω			
3. Less than 100 Ω	4. More than 1 M Ω			
16. While checking the choke using series	1 amp method, the bulb should			
1. Glow dim	2. Glow bright			
3. Not glow	4. Flicker			
17. The direction of rotation of ceiling fan should bedirection looking from the ground 1. Initially clockwise, then anti clockwise				
2. Initially anticlockwise, then cloc	2. Initially anticlockwise, then clockwise			
3. Clockwise	4. Anticlockwise			
18. For skinning the cable insulation, the Proper tool to be used is				
1. Plier	2. Cutter			
3. Scissor	4. Stripper			
19. For wiring up a 1.5 ton Air conditioner, the socket required shall have current rating of				
1. 1 A	2. 2 A			
3. 16 A	4. 5 A			
20. The equipment used to measure insulation resistance of a motor is				
1. Megger	2. Voltmeter			
3. Ammeter	4. Wattmeter			

21. The meter used to measure the speed of a motor is called as			
1. Potentiometer	2. Tachometer		
3. Ammeter	4. Voltmeter		
22. How we can change the direction of rotation of a DC Motor?			
1. By changing either armature of fi	1. By changing either armature of field terminals		
2. By changing both armature & fiel	2. By changing both armature & field terminals		
3. By shorting armature & field tern	ninals 4. By opening field terminals		
23. The purpose of no volt coil in four point	starter is to		
1. Release handles of starter when t	1. Release handles of starter when there is no supply.		
2. Speed up the motor			
3. Stop the motor	4. Plug the motor		
24. The material of brushes used in DC general	erator is		
1. Copper	1. Copper 2. Aluminum		
3. Carbon	4. Silver		
25. A series motor is always started on			
1. Load	2. No load		
3. Less Load	4. Very less load		
26. Which of the following is not required in	over hauling of the DC Motor?		
1. Pulley puller	2. Bearing puller		
3. Center Punch	4. Frequency meter		
27. In case of DC Motor, the overload relay motor	setting should be times, the rated current of the		
1. 0.2	2. 5.1		
3. 1.5	4. 2.0		

28. We can change the direction of rotation of 3 phase squirrel cage induction motor by		
1. Interchanging all the phases	2. Interchanging any two phases	
3. By shorting R & Y terminal	4. By shorting Y & B terminal	
29. The overload relay setting i.e. overload Motor.	current should be abouttimes the HP rating of the	
1. 1.1	2. 1.2	
3. 1.9	4. 1.5	
30. While running in delta mode, each windsupply. If the operation voltage is 440 v	ling of 3 phase squirrel case induction motor receives olts	
1. 440 /v 3	2. 230/v3	
3. 440 V	4. 230 V	
31. While starting the slip ring induction me true	otor on rotor resistance starter, following statement is	
1. Resistance is changed from low to	1. Resistance is changed from low to high value	
2. Resistance is changed from high t	2. Resistance is changed from high to low value	
3. Resistance is changed from media	3. Resistance is changed from medium to low value	
4. Resistance is changed from media	4. Resistance is changed from medium to high value.	
32. The resistance of starting winding in case of single phase induction motor is as that of running winding.		
1. Low	2. High	
3. Very Low	4. Same	
33. The function of centrifugal switch in case	se of single phase induction motor is to	
1. Disconnect running winding	2. Disconnect starting winding	
3. Disconnect both windings	4. To short starting & running winding	

	1. Interchanging starting/running winding terminal		
	2. Opening starting winding		
	3. Interchanging both windings simultaneously		
	4. Interchanging the supply connections.		
35. If input AC voltage is 24V, the output DC of the half wave rectifier will beV			
	1. 10.8 V	2. 18 V	
	3. 24 V	4. 12 V	
36	diode is used as voltage regulator		
	1. Photo	2. Zener	
	3. Light Emitting	4. Power	
37. Following device can be used as series voltage regulator			
	1. Diode	2. Transistor	
	3. Trial	4. Dial	
38. The function of heat sink in power supply is to			
	1. Dissipate heat	2. Regulate power	
	3. Regulate harmonics in the supply	4. Improve P.F.	
39. Th	e efficiency of full wave rectifier istha	n half wave rectifier.	
	1. More	2. Lower	
	3. Very Low	4. Always low	
40. The filters are used in conjunction with rectifier circuit because they			
	1. Reduce voltage	2. Reduce current	
	3. Increase voltage	4. Remove ripples from the voltage.	

34. The direction of rotation of single phase induction motor can be changed by

SPACE FOR ROUGH WORK