Question Booklet No.

000272

Skill Development and Entrepreneurship Department **Directorate of Vocational Education and Training** Directorate of Skill Development, Employment and Entrepreneurship Question Paper Group Name: Mechanical-2

Question Paper Post Names: Craft Instructor – Electroplater

	Duration: 60 Minutes				-	Fotal Qu	estio	n: 40		
							<u></u>			
		INSTRUCTION					_	_		
1.	This Question Paper Booklet contents a ensure that it contents all pages and oprinting/ binding/ incomplete pages a Invigilator.	questions before startin	g to answer. If o	andida	ate find	ls any pi	obler	n per	tainin	g t
2.	Candidate has to write his/ her seat num	nber in this block.								
3.	The Question Booklet Number as print	ted above should be m	entioned at the		<u> </u>		1	<u> </u>		
	appropriate place on the OMR Answer S	heet.								
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 BLACK INK BALL POINT PE	<u>N</u> Only.								
5.	All Questions carry equal marks i.e. 1 Q	Question has a weightag	e of 1 marks. Car	ndidate	shoul	d mind t	he av	ailabl	e time	fc
	the examination and solve the questions	s accordingly.								
6.	The option shaded once on the OMR A	answer Sheet should no	be roughed or i	n any	other v	way char	ged.	Thus	cand	•
	should take utmost care while marking	their options on OMR A	nswer Sheet. Suc	h char	nges if	any or ar	ny att	empt	to rc	ı
	change options shall not be checked by t	the authorities.								C
7.	Marks shall be awarded to the correct	answers only during th	e evaluation of t	he OM	IR Ansv	wer Shee	t. No	mark	s sha.	
	deducted for registering wrong answers	s (shading wrong option) or not attempti	ng qu	estions	. Thus th	ere is	NO I	NEGAT	ΓIV
	MARKING SYSTEM.									
8.	All the rough work has to be done on th	e sheet provided for Ro	ugh Work in the (Questic	on Boo	klet only.	Writ	ing ar	ythin	3 0
	the Question Paper Booklet, OMR Answe	er Sheet or any other Pa	per Sheet shall be	treate	ed as a	n unfair r	neans	and	entitle	! fo
	action under "Prohibition of Unfair Prac	tices during examinatio	n Ordinance – 19	82".						
9.	Method of Shading the Correct Option o	n the OMR Answer Shee	et:							
	Q.No. 25.How many Centimeters ma	ake 1 Meter?								
	(1) 10	(2)	100							
	(3) 1000	(4)	10000							
	Correct Option for this Question is (1) an	d hence the (2) option o	n the OMR Answ	er She	et in fro	ont of Qu	estio	n		
Nu	mber 25 has to be shaded as following		OK AD							
			Ø⊗							
		ct Method of Shading	Wrong Met			ng				
_	<u>_</u>	SE ONLY BLACK INK BAI		SHAL	<u> </u>					
		IMPORTANT								
1	his Question Paper Booklet and OMR			Depar	tment	and is b	eing	hand	led	

Any means of copying this Question Paper Booklet or any matter within in part or full, and/or transferring/ circulating during the examination period is prohibited and shall be treated as a means of criminal offence and the respective person shall be booked under "Prohibition of Unfair Practices during examination Ordinance - 1982" and shall be entitled for imprisonment for 1 year and / or penalty of Rs. 1000.

Further unauthorized handling, transfer or copying of this Question Paper Booklet and OMR Answer Sheet during examination period by the staff including Departmental Staff and Staff appointed for Examination purpose is also prohibited and entitled for action as per above ordinance.

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

1. Wood, Paper Cloth	2. Metals				
3. Flammable Liquids	4. Gas and liquefied gas				
2. For skinning the single stand cables, tool used is					
1. Plier	2. Screw Driver				
3. Wire stripper	4. None of the above				
3. An electric device has a resistance of 30 ohms. Voltage to be applied to the device to cause 1.6 ampere of current to flow is					
1. 18.1 volts	2. 30 volts				
3. 48 volts	4. 540 volts				
4. Thickness of wire SWG25 is					
1. 25 mm	2. 2.50 mm				
3. 5.1 mm	4. 0.51 mm				
5. Which of the following is a part of me	egger?				
1. Small generator	2. Ohm meter				
3. Ganlaing system	4. All of the above				
6. As per BIS and NEC recommendation the height of main and branch distribution boards in electrical wiring should					
1. Not more than 2 m from floor lev	el 2. Not less than 2m from floor level				
3. Be 1.3 m above the floor level	4. Not less than 2.25 m from the floor				
7. Lugs and terminal are fixed with					
1. Side cutting plier	2. Gas plier				
3. Hammer	4. Crimping tool				

1. Class C Fire in due to

8. Which of the following is not primary cell?				
1. Voltaire cell	2. Edison cell			
3. Carbon zinc	4. Alkaline			
9. To bring too accurate size with a high degree of finish a file used is				
1. Bastard file	2. Smooth file			
3. Dead smooth file	4. Second cut file			
10. To drill holes up to 12.5 mm most	suitable machine is			
1. Sensitive bench drilling machine	2. Pillar drilling machine			
3. Column drilling machine	4. Radial drilling machine			
11. The flux used in soldering is				
1. Hydrochloric acid	2. Zinc chloride			
3. Ammonium chloride	4. All of the above			
12. Material used to prepare permane	12. Material used to prepare permanent magnets is			
1. Soft iron	2. Cobalt steel			
3. Mild steel	4. Cast iron			
13. To improve power factor electric s	upply company suggests to install			
1. Inductive load	2. Capacitor bank			
3. Load Bank	4. Rheostat			
14. The size of copper plate used in pla	ate earthing is			
1. 200 X 200 X 2.5 mm	2. 300 X 300 X 3.5 mm			
3. 400 X 400 X 4.5 mm	4. 600 X 600 X 6.5 mm			

15. Bidirectional switching device is				
1. Zener-diode	2. Diac			
3. Triac	4. Diode bridge			
16. Which of the following is comes under brush families				
1. Graphite	2. Carbon & carbon graphite			
3. Metal graphite	4. All of the above			
17. Ni Cl ₂ H ₂ O is				
1. Nickel chloride	2. Double nickel salt			
3. Black nickel salts	4. Nickel anodes			
18. Small articles like nuts, both are cleaned by				
1. Alkaline cleaning	2. Hand cleaning			
3. Barrel cleaning	4. Solvent cleaning			
19. The process in which a mixture of water and abrasives is propelled through a nozzle using compressed air is called				
1. Wet blasting	2. Sand blasting			
3. Shot blasting	4. Glan bead blasting			
20. Hand chromium is plated to				
1. To reduce coefficient of friction	2. Inverse handers			
3. To withstand high Temperature	4. All of the above			
21. A Steel melded tank without rubber lining is used for				
1. Nickel plating	2. Silver plating			

4. Zinc plating

3. Tin Plating

3. Galranigang	4. Passivation			
23. Concentration of double nickel salt advised in Nickel plating is				
1. 75-100 gms/litre	2. 125 gms/litre			
3. 300 gms/litre	4. 525 gms/litre			
24. Chromatic process is applicable	e for			
1. Aluminum alloys	2. Magnesium alloys			
3. Steel	4. Copper alloys			
25. Heavy components are plated	by			
1. Barrel plating	2. Rack plating			
3. Strip plating	4. None of the above			
26. When current passes through	a part and acts as an anode is			
1. Auto corrosion	2. Contact corrosion			
3. External corrosion	4. All of the above			
27. Non-destructive methods to de	etermine coating thickness is			
1. Eddy current	2. Magnetic induction			
3. Beta backscatter	4. All of the above			
28. Highest electrical conductivity	is offered by			
1. Nickel plating	2. Zinc plating			
3. Silver plating	4. All of the above			

22. The electronic process of giving protective coatings to iron and steel surface is

2. Bheeing

1. Phosphating

29. Sodium chloride and Hydrogen Peroxide solution is used to test			
1. Thickness	2. Porosity		
3. Adhesion	4. Appearance		
30. Burnishing test is used to chec	k		
1. Adhesion	2. Thickness		
3. Porosity	4. Appearance		
31. The atoning solution Ferric chl	oride and copper sulphate with water is used to test		
1. Copper coatings	2. Lead coatings		
3. Zinc coating	4. Cadmium coating		
32. The Etching solution potassiun	n fluoride and resublimed iodine is used to test		
1. Nickel coating	2. Silver coating		
3. Zinc coating	4. Lead coating		
33. The test used to test corrosion	resistance is		
1. Neutral salt spray test	2. Sulphur dioxide test		
3. Corrodkote test	4. All of the above		
34. The scratch test to find out the	minimum load required to expose the bare metal		
1. Stripping test	2. Dry film thickness		
3. Flexibility	4. Adhesive		
35. The safe concentration limits of	f zinc oxide as a hazardous metal in		
1. 6 mg/m ³	2. 15 mg/m ³		
3. 6 ppm	4. 15 ppm		

36. Accelerator used in electrode Nickel baths is

1. Lactates

2. Selenic acid

- 3. Tellurium
- 4. Lead ions

37. Stabilizers used in steel holes Nickel bath is

1. Glycerin

2. Fluorides

3. Pb ions

4. Cd ions

38. Thickness of electroplating deposit is given by T is equal to

1.
$$\frac{\textit{Weight of deposit (W)}}{\textit{Area (A) X Density of deposit (D)}}$$

$$2.\frac{WXA}{D}$$

$$3.\frac{WXD}{A}$$

$$4.\frac{w}{4}$$

39. Which of the following solvent is more toxic?

- 1. Chloroform
- 2. Methanol

3. Acetone

4. Benzol

40. Which of the following is not toxic?

1. Toluol

- 2. Cellosolve
- 3. Kerosene
- 4. Methanol

SPACE FOR ROUGH WORK