Question Booklet No.

003481

Skill Development and Entrepreneurship Department **Directorate of Vocational Education and Training** Directorate of Skill Development, Employment and Entrepreneurship

Question Paper Group Name: MECHANICAL-11 Question Paper Post Names: Craft Instructor - Welder

Duration: 60 Minutes	Total Questions: 40
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	INSTRUCTIONS	1-1
1.	This Question Paper Booklet contents 40 mandatory questions. Candidate should check the Question Paper Book and ensure that it contents all pages and questions before starting to answer. If candidate finds any probipertaining to printing/binding/incomplete pages etc, candidate should immediately get the Question Paper replation from the Invigilator.	lem
2.	Candidate has to write his/ her seat number in this block.	
3.	The Question Booklet Number as printed above should be mentioned at	
	the appropriate place on the OMR Answer Sheet.	
4.	All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate should select the most correct Option mention the Option Number on the OMR Answer Sheet in front of the respective Question Number by fully shad 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 1 marks. Candidate should mind the available t	ime
	for the examination and solve the questions accordingly.	
6.	The option shaded once on the OMR Answer Sheet should not be roughed or in any other way changed. T candidate should take utmost care while marking their options on OMR Answer Sheet. Such changes if any or attempt to rough/ change options shall not be checked by the authorities.	
7.	Marks shall be awarded to the correct answers only during the evaluation of the OMR Answer Sheet. No marks s be deducted for registering wrong answers (shading wrong option) or not attempting questions. Thus there is NEGATIVE MARKING SYSTEM .	
8.	All the rough work has to be done on the sheet provided for Rough Work in the Question Booklet only. Wri anything on the Question Paper Booklet, OMR Answer Sheet or any other Paper Sheet shall be treated as an unmeans and entitle for action under "Prohibition of Unfair Practices during examination Ordinance – 1982".	
9.	Method of Shading the Correct Option on the OMR Answer Sheet:	
	Q.No. 25.How many Centimeters make 1 Meter?	
	(1) 10 (2) 100	
TL	(3) 1000 (4) 10000	
	Correct Option for this Question is (1) and hence the (2) option on the OMR Answer Sheet in front of Question nber 25 has to be shaded as following	
146	O O O O O	
	Correct Method of Shading Wrong Method of Shading	
	USE ONLY BLACK INK BALL POINT PEN FOR SHADING	
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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.

1. Out of the following which is not a Non-destructive test?			
1. Visual examination	2. Radiographic		
3 Nick- break test	4. Supersonic or ultrasonic.		
2 Defect can be found by radiographic	method of testing.		
1. Warpage	2. Undercutting		
3. Surface defects	4. Porosity		
3. Any crack or depression on the surface is considered as failure until it exceeds a specified size.			
1. 1 mm or more	2. 1.5 mm or more		
3. 2 mm or more	4. 2.5 mm or more		
4. While cutting 6mm MS plate by arc welding, pressure set for acetylene gas & pressure set for oxygen gas.			
1. 0.15 kg/cm ² , 1.5 kg/cm ²	2. 0.14 kg/cm ^{2,} 1.4 kg/cm ²		
3. 1.5 kg/cm ² , 0.15 kg/cm ²	4. 1.4 kg/cm ² , 0.14 kg/cm ²		
5. For pipe butt weld butt joint on M.S. pipe maintaining bevel angle.			
1. 20° to 25°	2. 30° to 35°		
3. 40° to 45°	4. 45° to 55°		
6. In bronze welding, for welding of 10 mm C.I. plate size bronze electrode is required.			
1. 1.15 mm	2. 2.15 mm		
3. 3.15 mm	4. 4.15 mm		
7. For cooling the hard facing job insulating material is used.			
1. Wood	2. Plastic		
3 Sand	4 Ceramica		

8. CO ₂	8. CO ₂ Welding is also called as		
	1. TIG	2. MIG	
	3. TAG	4. MAG	
9. Wh	ich type of electrode is used for spot welding	g of refrigerator body?	
	1. Domed electrodes	2. Flat tip electrodes	
	3. Pointed electrodes	4. Mushroom electrodes	
10. W	hich type of electrode materials is used for s	pot welding of stainless steel sheet?	
	1. Copper, Cadmium alloy	2. Special alloy	
	3. Copper, chromium alloy	4. Refractory metal compositions	
11. Open corner joint of MS plate is weld byshield arc welding operation.			
	1. Flat position	2. Horizontal position	
	3. Vertical position	4. Overhead position	
12	Shield arc welding operation is also cal	led as " Out -of- position welding".	
	1. Flat position	2. Horizontal position	
	3. Vertical position	4. Overhead position	
13. In travel	,	ectrode started from in the direction o	
	1. 10°-15°	2. 10°-25°	
	3. 10°-35°	4. 10°-45°	
14	is most hazardous operation in SMAV	v .	
	1. Flat position	2. Horizontal position	
	3. Vertical position	4. Overhead position	

15. Angle of filler is keep	in vertical position SMAW operation.
1. 10°-20°	2. 20°-30°
3. 30°-40°	4. 40°-50°
16. Pressure of both gases in sh	nielded metal arc welding is
1. 0.13 kg/cm ²	2. 0.14 kg/cm ²
3. 0.15 kg/cm ²	4. 0.16 kg/cm ²
17. How much argon content is mm?	s used in TIG welding DCSP of stainless steel plate having thickness 3
1. 0.4 m ³ /hr	2. 0.45 m ³ /hr
3. 0.5 m ³ /hr	4. 0.55 m³/hr
18. In butt weld square butt jo	int on aluminium pipe, inclination of V block is
1. 65°	2. 75°
3. 85°	4. 80°
19. In TIG welding of aluminiur	n sheet electrode is also used in place of tungsten electrode.
1. Cadmium	2. Zirconium
3. Helium	4. Aluminium
20. In TIG welding, thickness of aluminum sheet.	f plate 3.2 mm, square butt joint is diameter of electrode for
1. 2.4 mm	2. 3.2 mm
3. 4.0 mm	4. 4.8 mm
21. In TIG, welding, overhead parts sheet.	position, 60° single vee joint, argon content used for aluminium
1. 10 LPM	2. 12 LPM
3. 15 LPM	4. 18 LPM

22. In TIG welding, tungsten tip angle is ranges from 30°-60°, is current required.			
1. 25 A & above	•	2. 25 - 100 A	
3. 100 A & abo	ve	4. 105-150 A	
23. In wall thickness pr	ractice plot first t	hen weld.	
1. Orthographic	projection	2. Iso metric projection	
3. Developmen	t	4. Free hand sketches	
24. For silver brazing of copper to stainless steel wall thickness horizontal position welding size of nozzle is used.			
1.0		2.1	
3. 2		4. 3	
25. In marking	_ is used for to dry the M. S	. sheet.	
1. Solvent		2. Copper sulphate	
3. Aluminium s	ulphate	4. Phosphate	
26. The chisel head in			
1. Free from sh	arp edge	2. Free from long edge	
3. Free from m	ushrom	4. Free from flat edge	
27. In chipping operation look at the edge of the chisel, not at the head of the chisel.			
1. Sharp		2. Slant	
3. Cutting		4. Bottom	
28. Flame gonging is works on the principle of			
1. Oxy-acetyler	e welding	2. oxy-acetylene cutting	
3. oxy-acetylen	e brazing	4. oxy-acetylene drilling	

	1. Steel plates	2. Forging plate
	3. Casting plate	4. Wooden plate
30. ox	y-acetylene machines are classified in two ty	pes
	1) Manually driven 2) driven cutting m/c	
	1. Hydraulic	2. Pneumatic
	3. Electric	4. Hydro-electric
31. Which type of metal is weld buy brazing welding?		
	1. Ferrous metals	2. Non ferrous metals
	3. Hard metals	4. Soft metals
32. W	hich type of metals are weld by oxy-acetylen	e process?
	1. Similar metals	2. Dissimilar metals
	3. Ferrous metals	4. Non ferrous metals
33. W	hich type of oxy-acetylene welding process is	used for welding MS & alloy steel metal?
	1. Bronze welding	2. Fusion welding
	3. 1 & 2 both	4. None of them
34. Boiling point of oxygen is		
	1100° C	2132.26°C
	3182.96°C	4185.70°C
35. Ar	gon percentage in air is	
	1. 0.0018	2. 0.0005
	3. 0.9325	4. 0.03

29. Out of the following which material is not cut by oxy-acetylene cutting process?

36. Symbol of square butt weld is		
	1.)(2. 11
	3.	4. V
37. Pl	asma arc welding is used for cutting m	netals
	1. Ferrous	2. Non-ferrous
	3. Soft	4. Hard
38. In plasma arc welding process arc is produced in between		
	1. Metal electrode & welding job	2. Tungsten electrode & welding job
	3. Gas flame & welding job	4. Filter & welding job
39. N	ormally no filler rod is used in type o	f welding process.
	1. TIG	2. MIG
	3. Plasma arc welding	4. Submerged arc welding
40. Temperature of the spark (arc) produced in arc welding is		
	1. 1200° C	2. 2400° C
	3. 3600° C	4. 4800° C

SPACE FOR ROUGH WORK