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Date: 25.07.2025 11:44 AM

071504T4 MAM**WELDING (MANUAL METAL ARC) LEVEL 4****ENG/OS/WEF/CR/02/4****Perform Gas Metal Arc Welding****July/August 2025**Printed By: Technical And Vocational College Date: 25.07.2025
11:44 AMPrinted Technical And Vocational College Date: 25.07.2025
11:44 AM**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)****WRITTEN ASSESSMENT**Printed Technical And Vocational College Date: 25.07.2025 11:44
AM**TIME: 2 HOURS****INSTRUCTIONS TO CANDIDATE:**Printed By: And Vocational College Date: 25.07.2025 11:44
AM

1. This paper has **TWO** sections: **A** and **B**;
2. Answer **ALL** questions in sections **A** and **B**;
3. You **do** with a separate answer booklet;
4. Marks for each question are as indicated;
5. Do not write on the question paper.

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This paper consists of FOUR (4) printed pages**Candidates should check the question paper to ascertain that all pages are printed as**

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SECTION A: (10 MARKS)**Answer ALL quiz section. Each question carries one mark**

1. _____ eye protection is not appropriate when performing Gas Metal Arc Welding (GMAW).

A. Auto-darkening welding helmet with proper shade lens

B. Safety goggles designed for grinding operations

C. Welding helmet with shade number appropriate for GMAW

D. Face shield combined with safety glasses for add on

2. Shielding gas _____ to the weld pool during GMAW.

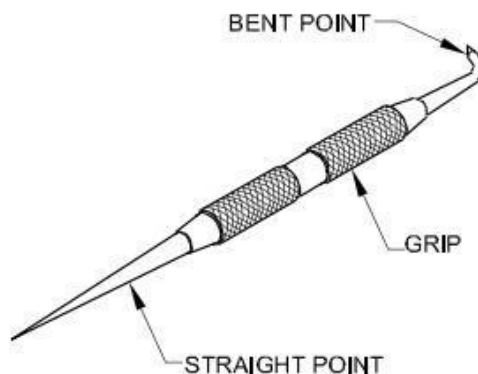
A. Cool the arc

B. Increase spatter

C. Prevent contamination from air

D. Reduce wire feed speed

3. The tool shown below is a _____ used for marking out during material preparation in welding.



A. Vernier height gauge

B. Welding needle

C. Scriber

D. Dot punch

4. Thee the functions of Metal Inert gas (MIG) welding torch. Which one is not.

A. Feeding the filler wire

B. Improving the performance of the weld.

C. Delivering shielding gas

D. Conducting welding current.

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5. _____ welding position is the easiest for beginners in GMAW.

A. Flat

B. Vertical

C. Horizontal

D. Overhead

6. An operator performed pre-heating before welding, highlight the reason for that.

A. To activate electrode flux

B. To prevent cracking and thermal shock

C. To increase welding speed

D. To make welding easier.

7. During welding operation, the welder realised that using excessive current caused a certain defect, identify the defect.

A. spatter

B. Lack of fusion

C. Cracking

D. Craters

9. MAG Stand for _____ in welding.

A. Metal Active gas

B. Manual actual gun.

C. Metal actual gun

D. Manual active gas

10. A welder comprises of various hand tools. Identify the function of a wire brush.

A. Tacking the parts together

B. Weld dressing

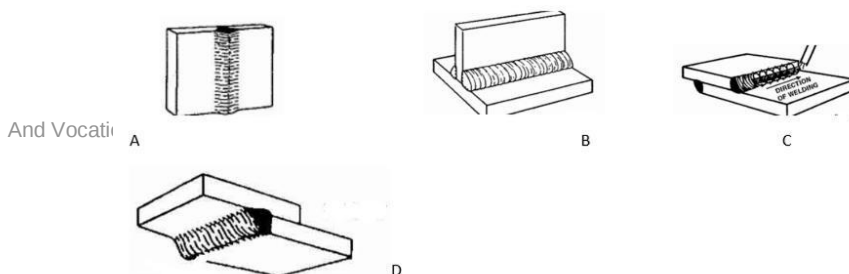
C. Cleaning base metal

D. Removing slag

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SECTION B: (40 MARKS)**Answer ALL questions in this section.**

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11. A welder wishes to set up a new MIG welding station. Identify FOUR Components of a MIG machine set up. (4 Marks)
12. While performing MIG welding process list FOUR factors to consider to produce a high-quality and d. Technical And Vocational College (4 Marks)
13. You are required to prepare metal joint before performing MIG welding. List FOUR measuring tools you might use. (4 Marks)
14. Alice is welding a structural frame using the GMAW process. She is working in a poorly lit and damp area without proper personal protective equipment. List FIVE risks she might be exposed to. (4 Marks)
15. Welded parts were tested and some were defective. State FOUR defects associated with GMAW. (4 Marks)
16. Symbols helps a welder to interpret drawing during welding. List THREE components of weld (4 Marks)
17. A client brought a drawing of the component to be produced, after interpretation, it was realized that it would involve several welding positions as given below, identify the welding positions. (4 Marks)



18. A competent welder dress and the welds after welding. Identify FOUR reasons for carrying out weld dressing. (4 Marks)
19. Your friend who successfully completed a welding course plans to open a fabrication workshop. List FOUR legal requirements for establishing workshop. (4 Marks)
20. A MIG welder wishes to dispose wastes appropriately. List FOUR ways of proper waste disposal he can adopt. (4 Marks)