

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2022/2023

COURSE NAME

: WELDING PRODUCT TESTING

COURSE CODE

: BBW 30202

PROGRAM CODE

: BBD

EXAMINATION DATE :

JULY/AUGUST 2023

DURATION

: 2 HOURS

:

INSTRUCTIONS

1. ANSWER ALL QUESTIONS

2.THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK.**

3.STUDENTS ARE **PROHIBITED**TO CONSULT THEIR OWN
MATERIAL OR ANY EXTERNAL
RESOURCES DURING THE
EXAMINATION CONDUCTED VIA

CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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S1	(a)	State TWO (2) main purposes of laboratory test in welding.
		(4 marks
	(b)	State THREE (3) advantages and disadvantages of Destructive Test.
		(6 marks
	(c)	Explain the basic procedure of Brinell Hardness Test. State a difference between Brinell Hardness Tester and Rockwell Hardness Tester.
		(8 marks
	(d)	Explain the procedure of Charpy Test. State a difference between Charpy Test and Izod Test.
		(7 marks
Q2	(a)	Non-destructive test (NDT) can be used for various purposes. When are actually NDT used?
		(6 marks)
	(b)	State THREE (3) types of NDT used for surface defects detection and THREE (3) types of NDT for internal defect detection.
		(6 marks)
	(c)	Figure Q2(c) illustrates a type of defect in a welding product.
		(i) What type of defect is shown in Figure Q2(c) ?
		(2 marks)
		(ii) Suggest a test to detect the above defect. Give a reason for your suggestion. (4 marks)
		(iii) State THREE (3) advantages of the suggested test.
		(3 marks)
		(iv) Is it possible to detect the defect using Magnetic Particle Test? Justify your answer.
		(4 marks)



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Q3 (a) State THREE (3) defects that can be and TWO (2) defects that cannot be detected by using eddy current test. (5 marks) (b) State THREE (3) good properties of penetrant and THREE (3) good properties of developer. (6 marks) (c) Explain clearly the procedures of performing Dye Penetrant Inspection. (14 marks) **S4** (a) State THREE (3) disadvantages of radiography Test. (3 marks) (b) Sketch and explain the basic principle of radiography test. (10 marks) Explain the procedure of magnetic particle test. (c) (12 marks)

END OF QUESTIONS



FINAL EXAMINATION

SEMESTER / SESSION : SEM II 2022/2023

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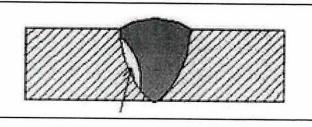


Figure Q2(c): Front view of cross-section

