#### Midterm Exam – Math for Law, SW, Arabic & Education



# DHOFAR UNIVERSITY FOUNDATION PROGRAM | MATH UNIT FPML 100, FPMS 100, FPMA 100, FPME 100

## Math for Law, SW, EDU, and Arabic Model Paper Midterm EXAM

Term (2023-24)

Studer Studer	nt Name										Date:	
Section											Duration: 1 hour 15 minutes	
Teach	ers											
Instruc	etions:											
1) 2) 3) 4)	The exam ha Please turn of Use only a blo No talking, pa considered ch	ff your ue or t assing	r mob black ; objec	ile ph pen.	one.					nothe	r student's paper. Any of these behaviors will be	
		y. It st	trictly			0 ,		<i>y</i> \	-		J-AC-007) is intended to foster hard work, honest conduct, including cheating and collusion, plagia	
	By reading this pledge, I affirm that I have upheld the AIP and that my submitted work is my own and therefore free of any form of cheating.											
				ولية							تهدف سياسة النزاهة الأكاديمية بجامعة ظفار (السياسة رقم007-AC و تحظر تمامًا جميع الأشكال التي تخالف النزاهة الأكاديمية ، بما في ذ	
ı		ل الغش.	ن أشكارُ	شکل مر	ِ من أي	ي ويخلو	خاص بہ	هذا هو .	ن عملي	ية و أر	من خلال قراءتي لهذا التعهد أؤكد أنني ملتزم بسياسة النزاهة الأكاديد	
	Student's Sign	ıature:	:									

#### **Marking Grid**

	Question 1	Question 2	Question 3	Question 4	
Question	MCQ's (out of 10)	(out of 8)	(out of 6)	(out of 6 )	Total / 30 marks
Marks obtained					

Marker's name:	Moderator's name:	
Marker's signature:	Moderator's signature:	
Date:	Date:	

#### **Question 1: MULTIPLE CHOICE.** Circle the correct answer. (10 Marks)

- The number  $\pi$  is in: 1) (a) Whole Number (W) (b) Natural Number( N) (c) Rational (Q) (d) Real Number (R) Integer numbers (I) are subset ( $\subseteq$ ) of 2) (a)Natural number (N) (b) Real number (R) Irrational numbers (H) (d) Whole number (W) (c)  $(\frac{2}{6}) - (\frac{1}{3}) =$ (a)  $\frac{1}{12}$ (c)  $\frac{-1}{6}$ (b)  $\frac{1}{6}$ (d) 0  $(\frac{2}{5})(-\frac{5}{3})=$ 4) (b)  $-\frac{2}{3}$ (a)  $\frac{2}{3}$ (c)  $-\frac{3}{15}$ Identify the property illustrated by the statement: (2)(3) = (3)(2)5) (a) Commutative with addition (b) Commutative with multiplication (c) Associative d) None Identify the property illustrated by the statement: (10 + 8) + 1 = 1 + (10 + 8)6) (a) Associative with addition (b) Associative with multiplication (c) Commutative d) Identity 5 cm is equal to----mm 7) d) 500 a) 50 b) 5 c) 0.5900cm is equal to----- dm 8) a) 900 b) 9 c) 90 d) 9000
  - 9) The degree of the polynomial  $x^4y^2 x^4 + 7x^2$  is:
    - (a) 6

(b) 12

(c) 4

(d) 2

- 10) The type of polynomial  $5x^3yz 7$  is:
  - (a) Binomial
- (b) Monomial
- (c) Trinomial

(d) None of these

**Question 2:** 

Perform the indicated operations: (8 marks)

(a) **Add** the following polynomials:

1) 
$$(8m^2 - 5m) + (4m^2 - 2m)$$

(2 marks)

2) 
$$(2n^2 - 3n + 9) + (5n^2 - n + 1)$$

(2 marks)

(b) **Subtract** the following polynomials:

1) 
$$(2n^2 - 9) - (5n^2 - 1)$$

(2 marks)

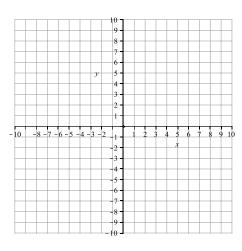
2) 
$$(8m^2 - 5m + 12) - (4m^2 - 2m + 6)$$

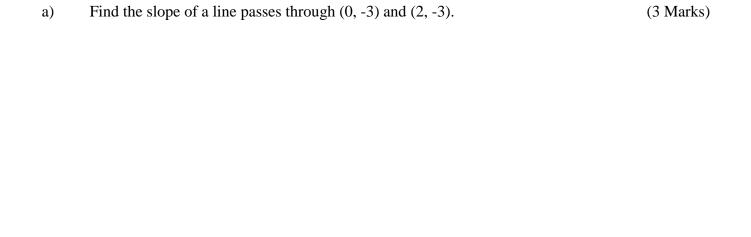
(2 marks)

#### **Question 3:** Graph the given straight line using intercepts

(6 Marks)

$$2x + 2y = 4$$





Find the distance between the points (-1, 2) and (-1, 7). (3 Marks) b)

### **SCRATCH SHEET**

Name:		
Note:		

- 1. This scratch sheet will not be marked.
- 2. Do not detach it from the rest of exam papers.