EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
36	55 minutes	3

Name: _____ Class: _____

Date: _____

MARK ____ / 36

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** the questions in this question paper.
2. Answer QUESTION 1 by **circling** the letter (A–D) in the answer grid at the end of that section.
3. Show **ALL** calculations clearly.
4. Show all units where applicable.
5. Number the answers correctly according to the numbering system used in this question paper.
6. A non-programmable calculator may be used, unless stated otherwise.
7. Write neatly and legibly.

QUESTION 1 [10 MARKS]

Four options are given as possible answers to the following questions. Choose the correct answer and circle the letter (A–D) in the grid at the end of this section. If you want to change your choice, put a cross through the wrong letter and circle your new choice.

1.1 How many TERMS are there in $5x^2 - 3x + 8$? (1)

A) 4 **B)** 1
C) 2 **D)** 3

1.2 The coefficient of x in $8 - x$ is ... (1)

A) 1 **B)** 0
C) -1 **D)** 8

1.3 Which pair are LIKE terms? (1)

A) $4x$ and $4y$ **B)** $2x^2$ and $2y^2$
C) $3x$ and $3x^2$ **D)** $5ab$ and $-2ab$

1.4 Simplify: $9m - 4m + 2m$ (1)

A) $7m^3$ **B)** $15m$
C) $7m$ **D)** $3m$

1.5 Simplify: $3x + 4x^2$ (1)

A) it cannot be simplified **B)** $7x^2$
C) $12x^3$ **D)** $7x^3$

1.6 The DEGREE of $5x^3 - 2x + 7$ is ... (1)

A) 10 **B)** 3
C) 5 **D)** 7

1.7 A rectangle has length $2x$ and breadth $(x + 3)$. Its PERIMETER is ... (1)

A) $2x^2 + 6x$ **B)** $6x + 6$

C) $3x + 3$ **D)** $2x^2 + 3$

1.8 If $x = 3$, the value of $2x^2$ is ... (1)

A) 36 **B)** 9

C) 12 **D)** 18

1.9 Simplify: $8 + 3k - 5 + k$ (1)

A) $7k$ **B)** $3 + 3k$

C) $3 + 4k$ **D)** $4k + 13$

1.10 Which one of the following is a MONOMIAL? (1)

A) $7ab$ **B)** $x + 2$

C) $x^2 - 1$ **D)** $3x + 2y - 5$

ANSWER GRID — CIRCLE YOUR ANSWERS FOR QUESTION 1

1.1	A	B	C	D
1.2	A	B	C	D
1.3	A	B	C	D
1.4	A	B	C	D
1.5	A	B	C	D
1.6	A	B	C	D
1.7	A	B	C	D
1.8	A	B	C	D
1.9	A	B	C	D
1.10	A	B	C	D

QUESTION 2 [15 MARKS]

Consider the expression $5x^2 - 3x + 8$.

2.1 Write down the number of terms in the expression, and state its degree with a reason. (3)

2.2 Write down the coefficient of x in $9x - 4$, and the coefficient of x in $8 - x$. **(3)**

2.3 Write down the constant term in $2y + 7$, and explain why $2y$ is NOT a constant. **(3)**

2.4 Simplify: $11n - 6n + 2n - n^2$ **(3)**

2.5 Simplify: $5x + 3y + 2x - y$ **(3)**

QUESTION 3 [11 MARKS]

Answer the questions below.

3.1 Simplify: $4p^2 + 3p - 2p^2 + p$ **(3)**

3.2 Simplify: $12 + 5k - 7 + 2k$ **(3)**

3.3 Explain why $3x$ and $3x^2$ are NOT like terms. **(2)**

3.4 A rectangle has a length of $2x$ and a breadth of $(x + 3)$. Write down a simplified expression for its perimeter. **(3)**

TOTAL: 36 marks

This question paper consists of 3 questions.

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