EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
34	55 minutes	3

Name: ..... Class: .....

Date: .....

MARK ____ / 34

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 $(-6) \times (-4) = \ldots$ (1)

A) 24 **B)** -10

C) -24 **D)** 10

1.2 $(-36) \div 9 = \ldots$ (1)

A) -27 **B)** -4

C) -324 **D)** 4

1.3 $(-2)^3 = \ldots$ (1)

A) 8 **B)** 6

C) -8 **D)** -6

1.4 $-3^2 = \ldots$ (1)

A) -9 **B)** -6

C) 9 **D)** 6

1.5 The product of THREE negative numbers is ... (1)

A) always positive **B)** always 1

C) sometimes zero **D)** always negative

1.6 $(-5) \times 4 \div (-2) = \ldots$ (1)

A) -10 **B)** 40

C) -40 **D)** 10

1.7 A submarine descends 15 m each minute. Its change in depth after 4 minutes is ... (1)

A) 60 m **B)** -11 m

C) -60 m **D)** -19 m

1.8 Which one of the following has the LARGEST value? (1)

A) $(-3)^3$ **B)** $(-3) + (-3)$

C) $(-3) \times (-3)$ **D)** $(-3) - 3$

1.9 If $a \times b$ is NEGATIVE and a is negative, then b must be ... (1)

A) positive **B)** zero

C) negative **D)** either

1.10 $(-48) \div (-6) \div 2 = ...$ (1)

A) -4 **B)** 4

C) 16 **D)** -144

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 [10 MARKS]

Calculate the following WITHOUT using a calculator.

2.1 $(-5) \times 6 \div (-3)$ (3)

2.2 $(-2) \times (-5) \times (-3)$ **(3)**

2.3 $(-4)^2 - 16 \div (-2)$ **(4)**

QUESTION 3 [14 MARKS]

Answer the questions below.

3.1 Calculate: $-3(-2)^3 + 5(-2)$ **(4)**

3.2 A diver descends at 6 m per minute for 7 minutes and then rises 15 m. Determine her final depth. **(4)**

3.3 The temperature falls by 3 °C every hour. After how many hours will it have fallen 21 °C? **(3)**

3.4 Calculate $(-4) \times (-2) \times (-1) \times (-3)$ and state the rule about an EVEN number of negative factors. **(3)**

TOTAL: 34 marks

This question paper consists of 3 questions.

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