

Mid-year Exam Revision

The Number System

QUESTION 1:

1.1 Which of the following numbers are rational and which are irrational?

$$\pi; \frac{3}{4}; -\sqrt{0,64}; \sqrt{2}; 3,02; \sqrt{14} \quad (3)$$

1.2 Determine three rational numbers between $\frac{1}{8}$ and $\frac{3}{8}$. (3)

1.3 Arrange the following number in ascending order:

$$2\frac{2}{3}; 2,7; 2\frac{3}{5} \quad (3)$$

1.4 Write down whether the following statements are TRUE or FALSE: (3)

(a) $\frac{0}{7} = 0$ _____

(b) $\frac{7}{0} = 0$ _____

(c) Zero is the identity element for addition. _____

QUESTION 2:

2.1 Write down whether the following statements are TRUE or FALSE: (5)

(a) 16 is a multiple of 2 and 8 _____

(b) 24 is a multiple of 10 _____

(c) 1 is a prime number _____

(d) All the prime numbers are odd _____

(e) 8 is a multiple and a factor of 8 _____

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