

MAT 271 Resit-Test 2 01/11/23

Question 1

(a) Given a normally distributed random variable X with mean 18 and standard deviation 2.5, find:

- (i) the probability $P(16.7 < X < 19.3)$. [3]
- (i) the probability $P(X = 21)$. [2]
- (ii) the value of h such that $P(X > h) = 0.8186$ [4]

(b) A random variable X has mean $\mu = 8$, variance $\sigma^2 = 9$ and an unknown probability distribution. Use Chebyshev's theorem to approximate the bounds of:

- (i) $P(0.5 < X < 15.5)$. [3]
- (ii) Find c such that $P(|X - 8| < 4c) > 0.96$. [3]

Question 2

(a) An electric kettle production factory output is known to produce 0.3% defective. In a random sample of 2000 electric kettles, determine how many will contain

- (i) 4 or more defectives [5]
- (ii) Less than 2 defectives [5]

(b). The uniform distribution of a continuous random variable X on interval $[-2, 3]$ is

$$f(x) = \begin{cases} \frac{1}{5} & , -2 \leq x \leq 3 \\ 0 & , \text{otherwise} \end{cases}$$

- (i) Find the distribution function. [4]

Evaluate (i) $P(1 \leq X < 4)$ (iii) $P(X > 2)$ [3+3]

Question 3

The length of life, in hours, of a drill bit used in a mechanical operation follows a probability density function

$$f(x) = \frac{1}{10} x e^{-0.05x^2} , x > 0$$

- (a) Find the probability distribution function. [6] ✓
- (b) Find the probability that the drill bit will fail
 - (i) before 10 hours of usage. [4]
 - (ii) between 5 hours and 9 hours of usage. [6] ✓

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