(h2.
1911) (a) (b) (4) (5) 9.11) (a) (3) (4) (5), 14 (1) (2)

19. 醉:

11).
$$P_{1} = \frac{1}{2} \sin 3 = P_{x_{1}} = P_{x_{2}} = F_{x_{3}}$$

$$= 1 - e^{-\frac{1}{2}}$$

(2)
$$P\{2\} + 4min 3 = P\{2 + 2 + 3 = 1 - F_*(4)\}$$

= $e^{-1.6}$

(3)
$$P_{3} = \min_{x \in \mathcal{A}} \{4 \min_{x \in \mathcal{A}} \{3\}\} = P_{3} = \sum_{x \in \mathcal{A}} \{4\} = P_{x}(4) - P_{x}(3-0)$$

$$= (1 - e^{-1.6}) - (1 - e^{-1.2})$$

$$= e^{-1.2} - e^{-1.6}$$

(4)
$$P_{1}=\frac{1}{2}\frac{1}{3}\sin(\frac{1}{2}\frac{1}{2}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{2}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\frac{1}{4}\sin(\frac{1}{2}\frac{1}{4}\frac$$

(5)
$$P_{4}$$
 the det 2.5 min $3 = P(x=2.5) = F_{x}(2.5) - F_{x}(2.5-0)$

9.解:沒 X为所排10件产品中的次品数,则 X~b(10,0.1) Y为 所抽配件产品中的次品数。则 Y~b(5,0.1) 第一次 超验 5第二次 超验 相互独立 (1) P(x=0) = (10 (0.1)°. (0.9)°= (0.9)° = 0.349

(c)
$$P\{0 \le x \le 2\} = P(x=1) + P(x=2)$$

$$= C_{10}'(0.1)' \cdot (0.9)^{9} + C_{10}'(0.1)^{2} \cdot (0.9)^{8}$$

$$= 0.581$$
(d) $P\{Y=0\} = C_{8}'(0.1)' \cdot (0.9)^{5} = 0.590$

(4)
$$P_{1}(0 < x \leq 2) \cap P_{1}(x = 0) = P_{1}(0 < x \leq 2) \times P_{1}(x = 0)$$

$$= 0.343$$

(5). 设 A为"这批产品被接受.

P(A) =
$$((1 \times 20) \times 0) \times ((1 \times 20) \times ((1$$

14解: 已知 X ~ え(2t)

(1)
$$b = \frac{1}{6}h$$
 $R = \frac{1}{3}$

$$P(x=1) = \frac{(\frac{1}{63})^{1}}{1!} e^{-\frac{1}{63}} = \frac{1}{63} e^{-\frac{1}{63}}$$

b)有
$$P_{CX=0}$$
) = $e^{-2t} \ge 0.5$

$$|R|$$
) $t \leq \frac{1}{2} (n2 = 0.347)$