## (机器设计》)健立)参考参案及评分村建

一. t复定版(函数5分,足20分) 1. 增 2. ½ 3. 2 e³(-ē³)或0.095 4. 空e³或0.425 二. 解答复 1. 解: 设部A表示信牌发出"o",开表示发出"I" B表示接收证品的到"1",则由超至 P(A) = 0.55 p(A) = 0.45 由全部之章なん、 $P(B) = p(A) \cdot p(B|A) + p(A) \cdot p(B|A)$ =0.55.0.05 + 0.45.08 \$=0.41  $P(A|B) = \frac{p(A) \cdot p(B|A)}{p(B)} = \frac{o:55 \times o.05}{o.41} = \frac{11}{164}$ 2. 海: 3h 由 st(x)dx=1 9得 a=3 (2)  $f_{\mathbf{z}}(\mathbf{x}) = \begin{cases} 0, & x \leq -2 \\ \frac{1}{4}(x+2), & -2 < x \leq 0 \\ \frac{1}{2} + \frac{2}{4}x - \frac{1}{4}x^{3}, & 0 < x \leq 1 \end{cases}$ 65 (3) R(P) = [1,5] Hy ∈R(γ), F(y) = p(γ≤y) = p(x²≤y-1) = F(√y+1) - F(-√y+1) 3 1≤y ≤207, Fly)= √y-1 - 4 (√y-1)3 ま 2<45のす たり(4)= 1-4(-171+2)= 1+4197 to P=82+1的查查2和句:  $f_{R}(y) = \begin{cases} \frac{1}{2}(y+1)^{-\frac{1}{2}}, & 1 \leq y \leq 2 \\ \frac{1}{8}(y+1)^{-\frac{1}{2}}, & 2 < y \leq 5 \end{cases}$ 

3. 
$$\frac{1}{1}$$
:  $\frac{1}{1}$  =  $\frac{$ 

$$E(\overline{Y}) = \int_{-1}^{1} y f_{\overline{Y}}(y) dy = \int_{-1}^{1} y \cdot \frac{3}{4} (r-y^{2}) dy = D$$

$$E(\overline{Y}^{2}) = \int_{-1}^{1} y^{2} f_{\overline{Y}}(y) dy = \int_{-1}^{1} y \cdot \frac{3}{4} (r-y^{2}) dy = \frac{1}{4}$$

$$D(\overline{Y}) = E(\overline{Y}^{2}) - (E\overline{Y})^{2} = \frac{1}{4}$$

$$\frac{30\langle 2 \leq \frac{1}{2z} \text{ bf},}{\sum_{0}^{2} \left( \frac{1}{z^{2}} \right)^{2}} = \int_{0}^{2} \int_{0}^{2} \int_{0}^{y \neq 1} \sin y \, dx \, dy$$

$$= \int_{0}^{\pi} \sin y \cdot y \neq dy = 2 \cdot \int_{0}^{2} y \cdot \sin y \, dy = 2 \cdot \lambda$$

オスラマ 时

$$F_{2}(z) = \int_{0}^{\frac{1}{2}} \int_{\frac{1}{2}x}^{\infty} \sin y \, dy \, dx$$

$$= \frac{1}{2} + z \cdot \sin \left(\frac{1}{2z}\right)$$

(3) 
$$f(z) = \begin{cases} 0, z < 0 \\ z, 0 < t \leq \overline{z}z \end{cases}$$

$$\int_{Sm} \frac{1}{z^2} \frac{1}{z^2} \omega_{zt} \frac{1}{z^2} \frac{1}{$$