

- 3)1                      4) $\pi$
17. Find the fixed point of  $W = \frac{3z-4}{z-1}$
- 1)  $z=1$                       2)  $z=0$   
 3)  $z=2$                       4)  $z=5$
18. If  $u$  and  $v$  are conjugate harmonic functions, then  $u$  is
- 1) harmonic                      2) notharmonic  
 3) constant                      4) none of these
19. Find  $f(z)$  where  $f(z) = u + iv$  and  $v = 3x^2y - y^3$
- 1)  $z^2 + c$                       2)  $z^3 + c$   
 3)  $z^4 + c$                       4)  $z + c$
20. The Fourier sine transform of  $f(x) = e^{-ax}$  is
- 1)  $\sqrt{\frac{2}{\pi}} \frac{a}{a^2 + s^2}$                       2)  $\sqrt{\frac{\pi}{3}} \frac{1}{a^2 + s^2}$   
 3)  $\frac{a}{s+1}$                       4)  $\sqrt{\frac{2}{\pi}} \frac{a}{s^2 + a^2}$
21. The iteration formula given by                      Newton-Raphson method to find the root of the equation  $x \sin x + \cos x = 0$  is
- 1)  $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \cos x_n}$   
 2)  $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \cos x_n + 2 \sin x_n}$   
 3)  $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \cos x_n + 2 \sin x_n}$   
 4)  $x_{n+1} = x_n - x_n \cos x_n + 2 \sin x_n$
22. Let  $F(s)$  be the complex Fourier transform of  $f(x)$ , i.e.,  $F[f(x)] = F(s)$  then  $F[x^n f(x)] =$
- 1)  $\frac{d^n}{ds^n} F(s)$                       2)  $(-i)^n \frac{d^n}{ds^n} F(s)$   
 3)  $\frac{d}{ds} F(s)$                       4)  $\int_0^\infty F(s) ds$
23. Apply Lagrange's formula to find  $f(x)$
- |        |   |   |    |    |
|--------|---|---|----|----|
| $x$    | 0 | 1 | 4  | 5  |
| $f(x)$ | 4 | 3 | 24 | 39 |
- 1)  $2x^3 + x^2 - 3x$                       2)  $2x^2 - 4x + 6$   
 3)  $2x^2 - 3x + 4$                       4)  $3x^2 - 4x + 5$
24. The value of  $\int_0^\infty e^{-2t} \sin t dt$  is

- 1)  $\frac{1}{25}$                       2)  $\frac{2}{25}$   
 3)  $\frac{3}{25}$                       4)  $\frac{4}{25}$
25. For the following density function  $f(x) = ae^{-3x} - \infty < x < \infty$ , find the mean
- 1) 0                      2) 1  
 3) 3                      4)  $\frac{1}{2}$
26. Variance of the random variable  $X$  is 9. Its mean is 2. Then  $E(X^2) =$
- 1) 13                      2) 8  
 3) 10                      4) 12
27. Find the moment generating function of a random variable  $X$  having the p.d.f.

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

- 1)  $\frac{e^{2x} - e^{-x}}{t}$                       2)  $\frac{e^{-t} + e^{2t}}{t}$   
 3)  $\frac{1}{3} \left[ \frac{e^{2t} - e^{-t}}{t} \right]$                       4) None of these
28. The probability distribution of a discrete random variable  $X$  is given by
- |          |     |     |     |
|----------|-----|-----|-----|
| $x$      | -2  | 2   | 5   |
| $P(X=x)$ | 1/4 | 1/4 | 1/2 |
- Then  $4E(X^2) - \text{Var}(2X) =$
- 1) 25                      2)  $\frac{25}{4}$   
 3)  $\frac{29}{2}$                       4) 58
29. The mean and variance of a binomial distribution are 4 and  $\frac{4}{3}$ . Find  $P(X \geq 1)$
- 1) 0.998                      2) 0.34  
 3) 0.001                      4) 0.0119
30. Moment generating function of a binomial distribution about the origin is
- 1)  $(p+q)^{n+1}$                       2)  $(p+q)^{1-n}$   
 3)  $(q+pe^t)^n$                       4)  $(pe^t - p)^n$

ANSWERS

1. 1	2. 2	3. 2	4. 4	5. 1	6. 2	7. 2	8. 3	9. 1	10. 2
11. 2	12. 1	13. 1	14. 1	15. 3	16. 2	17. 3	18. 1	19. 2	20. 1
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