

Total Marks: 80

Time Duration: 3Hr

- N.B.: 1) Question no.1 is compulsory.
2) Attempt any three questions from Q.2to Q.6.
3) Figures to the right indicate full marks.

Maximum
Marks

- Q1. a) Find the Laplace transform of $\frac{1}{4} e^{-t} \sin t$. [5]
b) Find the inverse Laplace transform of $\frac{1}{\sqrt{2s+1}}$. [5]
c) Show that the function $f(x) = \sinh x$ is analytic and find $f'(x)$ in terms of x . [5]
d) Find the Fourier series for $f(x) = x$ in $(0, 2\pi)$. [5]
- Q2. a) Use Laplace transform to prove $\int_0^\infty e^{-t} \frac{\sin^2 t}{t} dt = \frac{1}{4} \log 5$. [6]
b) If $\{f(k)\} = \begin{cases} 4^k, & k < 0 \\ 3^k, & k \geq 0 \end{cases}$ find $Z\{f(k)\}$. [6]
c) Show that the function $u = \cos x \cosh y$ is a harmonic function. Find its harmonic conjugate and corresponding analytic function. [8]
- Q3. a) Find the equation of the line of regression of Y on X for the following data. [4]
- | | | | | | | | |
|---|----|----|----|----|----|----|----|
| X | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Y | 11 | 14 | 14 | 15 | 12 | 17 | 16 |
- b) Find the bilinear transformation which maps the points 1, -i, 2 on z-plane onto 0, 2, -i respectively of w-plane. [6]
c) Find half range sine series for $f(x) = \begin{cases} x, & 0 < x < \frac{\pi}{2} \\ \pi - x, & \frac{\pi}{2} < x < \pi \end{cases}$. Hence find the sum of $\sum_{n=1}^\infty \frac{1}{n^2}$. [8]
- Q4. a) Find the inverse Laplace transform by using convolution theorem $\frac{1}{(s-a)(s+a)^2}$. [6]
b) Calculate the coefficient of correlation between X and Y from the following data. [6]
- | | | | | | | |
|---|---|---|----|----|----|---|
| X | 8 | 8 | 7 | 5 | 6 | 2 |
| Y | 3 | 4 | 10 | 13 | 22 | 8 |
- c) Find the inverse Z-transform of
i) $\frac{1}{(z-a)^2}$ $|z| < a$
ii) $\frac{1}{(z-1)(z-2)}$ $|z| > 3$ [8]

Question Paper Applied Mathematics 3 Semester

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web schematic here s a wireless charger schematic fig 2 general wireless power transfer schematic what do we need 1 mm thick wire 7 m 1 dot pcb board one 10k trim pot 103 one 555 timer ic 10 ohm resistors 10k resistors screw terminals 1 mini usb connector male creating the coils