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Max marks: 15
CLASS TEST - I (4th Semester)

BTECH
PMA4E001

SUBJECT: APPLIED MATHEMATICS -III
BRANCH: ALL

Answer Question No.1 which is compulsory and any Two from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (1 x 5)
- a) Define an analytic function. Give example of a function which is differentiable at a point but not analytic there.
 - b) Test the analyticity of the function $(z) = \ln|z| + i\text{Arg}z$.
 - c) If $f(z) = \frac{z}{z}$, then find $\lim_{z \rightarrow 0} f(z)$.
 - d) Define connected, simply connected and multiply connected domain.
 - e) Find the value of $\oint \frac{f(z)}{z-3} dz$ over the unit circle C, where $f(z)$ is analytic.
- Q2 a) Find the general power and the principal value of i^i . (2.5)
- b) Verify that $u = x^2 - y^2 - y$ is harmonic in the whole complex plane and then find the corresponding analytic function. (2.5)
- Q3 a) Integrate the function $f(z) = (z - z_0)^m$, where m is the integer and z_0 is a constant, counterclockwise around the circle C of radius ρ with center at z_0 . (2.5)
- b) State and prove Cauchy's Integral Theorem. (2.5)
- Q4 a) Show that $\oint (z - z_1)^{-1} (z - z_2)^{-1} dz = 0$, for a simple closed path C enclosing the arbitrary points z_1 and z_2 . (2.5)
- b) Prove that $\oint \frac{e^{2z}}{(z+1)^4} dz = \frac{8\pi i}{3e^2}$ counterclockwise around the circle C: $|z| = 2$. (2.5)

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