**B. Pharm 1st Semester Examination**

**Subject- Remedial Mathematics (BPI06RMT)**

 **Full Marks- 35 Time – 1.5 hours**

**Answer all questions:**

**Section-A**

**1. Answer any one questions. (1x10=10)**

 **(a) Show that Ɩ-1 [] = (Coshat.Sinat + Sinhat.Cosat)**

 **(b) Integrate**

**2. (a) Solve by Cramer’s rule 2x+3y-z=9, x+2y+z=4,5x-y+2z=1**

 **(b)Find if y=**

**Section-B**

**Answer any five questions: (5x5=25)**

**3. Solve by Laplace Transform method**

 **Y11-y1-2y=o, y(o)=8, y(o)=7**

**4. Solve the system of equation by matrix method**

 **x+2y+3z=8, 2x+y+z=8, x+y+2z=6**

**5. Find the equation of straight line which passes through the point**

**(4**,**-5) & is lar to the straight line 3x+4y+5=0**

**6. Solve the following integral equation by Laplace method**

**Y(t)=tet-2ett  e-zy(z)dz**

**7. Solve the initial value problem**

 **Xy1=y+3x4cos (y/x),y(1)=0**

**8. (a) Find inverse Laplace Transform of in (4)**

 **(b) Find distance between two lines (1)**

 **2x-y=7,3y-6x=2**

**9. (a) Solve In (3)**

**(b) Find order and degree of = (2)**