

www.FirstRanker.com

www.FirstRanker.com

September 2010

[KX 806]

Sub. Code: 3806

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION (Regulations 2008 - 2009)

(Candidates admitted from 2008-2009 onwards) FIRST YEAR

Paper VI – REMEDICAL MATHEMATICS

Q.P. Code : 383806

Time : Three hours

Answer All questions

 $(2X\ 20 = 40)$

(6 X 5 = 30)

Maximum: 70 marks

I. Essay Questions :

1. (a) For the Square Matrix A = $\begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & -3 \\ 2 & -1 & 3 \end{pmatrix}$

Prove that A (adj A) = IAI I.

(b) If A =
$$\begin{pmatrix} 2 & 3 \\ 4 & 5 \end{pmatrix}$$
. Show that A²-FA-2I=0

2. (a) Find the equation of the circle passing through the points (1, 1), (2, -1) & (3, 2).

(b) If $x=a\cos\theta+b\sin\nu\theta$ and $y=a\sin\theta-b\cos\theta$. Prove that $x^2+y^2=a^2+b^2$.

II. Write Short Notes :

1. Find the ad joint of
$$\begin{pmatrix} 3 & 1 & 2 \\ 2 & 2 & 5 \\ 4 & 1 & 0 \end{pmatrix}$$

- 2. Find the equation of the parabola whole focus if (1, 2) and directive is x+y-2=0.
- 3. Integrate x^2e^2xdx .
- 4. Verify the Euler's theorem. if $u=x^3+y^3+3x^2y+3xy^2$.
- 5. Solve $(D^2-6D+a)y=e^{3x}$.
- 6. Find the area of the triangle whole vertices are (4, 7), (2,-3) and (-1, 3).

www.FirstRanker.com