**Hyperbola**

**MCQ-Single Correct**

1. A hyperbola passes through the point and has foci at . Then the tangent to this hyperbola at P also passes through the point :

(1)  (2) 

(3)  (4)  **[2017]**

2. The eccentricity of the hyperbola whose length of the latus rectum is equal to 8 and the length of its conjugate axis is equal half of the distance between its foci, is :

(1)  (2) 

(3)  (4)  **[2016]**

3. The equation of the hyperbola whose foci are (-2,0) and (2,0) and eccentricity is 2 is given by

(1)  (2) 

(3)  (4)  **[2011]**

4. For the hyperbola , which of the following remains constant when α varies?

(1) eccentricity (2) directrix

(3) abscissae of vertices (4) abscissae of foci **[2007]**

5. The locus of point  moving under the condition that the line is a tangent to the hyperbola  is

(1) an ellipse (2) a circle

(3) a parabola (4) a hyperbola **[2005]**