**Indefinite Integrals**

**MCQ-Single Correct**

1. Let In = , (n > 1). If I4 + I6 = a tan6x + bx5 + C, where C is a constant of integration, then the ordered pair (a,b) is equal to :

(1)  (2) 

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

2. The integral  is equal to :

(1)  (2) 

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

3. The integral  equals :

(1)  (2) 

(3)  (4)  **[2015]**

4. The integral  is equal to

(1)  (2) 

(3)  (4)  **[2014]**

5. If  , then  is equal to **[2013]**

(1)  (2) 

(3)  (4) 

6. The value of  is

(1)  (2) 

(3)  (4)  **[2008]**

7. is equal to

(1)  (2) 

(3)  (4)  **[2005]**

8. If , then the value of (A,B) is

(1) (sinα, cosα) (2) (cosα, sinα)

(3) (-sinα, cosα) (4) (-cosα, sinα) **[2004]**

9.  is equal to

(1)  (2) 

(3)  (4)  **[2004]**