**ATHAVALE CLASSES**

**23/03/2020 Integration & App.of Integration Marks:- 120**

1) = a) b) c) d)

2) If f (x) is an odd function, then = a) 0 b) c) d) none

3) If , then a = a) b) c)  d) 4)= a) b) c) d) 5)  = a) 0 b)  c)  d)  6)  = a) 3 b) 0 c) 4 d) 2 7) =a)b) c)d) 8)= a)  b)  c)  d)  9) = a)  b)  c) d)  10)a)b) c)d)

11) The value of dx is….a) b) c) d)

12)= a)b)c)  d) 13) If is: a) 2 b) 3 c) 4 d) 5 14)= a)  b)  c)  d)  15) = a) b)  c)  d)  16) If  is = a) 1 b) 4/3 c) 5/3 d) 5/2

17) = a)  b)  c)  d)  18) To evaluate,the suitable substitution is a) b) c)d) 19) = a) 0 b)  c)  d)

20)= a) b)  c) d) 

21) The are between the curve and X – axis is a) b) c) d) 125 22) = a) 6 b) 3 c) 0 d) None of these

23) Area bounded by the parabola and its latus rectum is

a)sq. units b) sq. units c) sq. units d) sq. units

24) Area bounded by the curve betweenis

a) 2 sq. units b) 4 sq. units c) 8 sq. units d) 16 sq. units

25) The area bounded by the circle line and X – axis lying in the first quadrant, is a) b) c)  d) 

26) If the area bounded by and , a > 0, is 1, then a = a) 1 b) c) d)

27) Area bounded by the curves, the X-axis and the ordinatesandis.Then:=

a) b) c)  d) none of these

28) The area of the region bounded by the curves and the X – axis is a) 4 b) 2 c) 3 d) 1

29) If a curve  passes through the point (1,2) and the area bounded by the curve, line x = 4 and X – axis is 8 sq. units, then

a) a = 3, b = –1 b) a = 3, b = 1 c) a = – 3, b = 1 d) a = – 3, b = – 1

30) The area (in sq. units) enclosed between the curves  is

a)  b) 1 c)  d)  31)  = a) sin x + c b) – cos x + c c)– elog(sinx).(cos x) + c d)elog(cos x) . (cos x) + c 32)  = a) b)  c)  d) 33) then a equals a)  b)  c)  d) 1

34)  is equal to a) log 3 b)  c)  d) 

35) is equal to a)  b)  c)  d)  36) The value of the integraldx is a) b) c) d)

37)= a)  b)  c)  d)  38)= a)b)c)d) 39) =

a) – x sin (log x) + c b) tan (log x) + c c) x sin (log x)+c d) – cot ( log x) + c 40)= a) b) c) d) 41) The area bounded by the curveaxis andis a)  b) log2 c) 2 log 2 d) – 2 log2 42) The area of the region, bounded by  in the first quadrant, in a)  b)  c)  d)  43) Area of the region bounded by the curve axis and the line  is a) 2 b)  c)  d) 4 44) Find the area between parabola y2 = 4x and the line x = 4 above X- axis.

a)  b)  c)  d) 

45) Find the area bounded by the curve x2 = y and the lines y = 0, x = 2, x = 3.

a)  b)  c)  d) 

46) Find the area of the region included between the parabola y2 = 4x and x2 = 4y.

a)  b)  c)  d)

47) Find the area bounded by the curve y = sin x1 x – axis between x = 0 and x = 2π.

a) 6 sq. units b) 4 sq. units c) 8 sq. units d) 5 sq. units

48) The area bounded by the parabolasand and the line is…

a)  b) c)  d) 

49) Find by integration the area bounded by the ellipse, (a > b) a) πab b) c) d) πba

50) The area bounded by the line 2x + y = 4, X-axis and the ordinate x = - 2 is :

a) 16 sq. units b) 12 sq. units c) 20 sq. units d) 15 sq. units

51) The area between the ellipse  and x – axis in 1st quadrant is :

a)  b) 5π Sq. units c)  d) 

52) The area included between the curves y2 = 4ax and x2 =4ay is :

a)  b)  c)  d) 

53) The area of the circle x2 + y2– 2x – 8y – 8 = 0 is :

a) 20π Sq. units b) 26π Sq. units c) 15π Sq. units d) 25π Sq. units

54) The area of the loop of the curve y2 = x (2 – x)2 is :

a)  b) c) d)

55) 

a) b) c)  d) 

56) a)b)

 c) d)

57) If is : a)  b)  c) d)

58)  a) b) 

 c)  d)

59) = a) 0 b)  c) d)

 60)= a) b) c) d) 