+ ULTIMATE MATHERMATICS

EXAM NO: 1 TRIGONOME TRY.

ach Ons 4 Marks : 60 TIME: 90 MIN

No1 - value of Sin(780) Sin(120) + cos (-240) Sin (3.90°) is

1) -1/2 (0) 1 (0) -1 (0) 1/2

2 + 91 un SinA = 3 and COSB = -12 where

OZAZZ and 7 < B < 37 , then the value

8 ton (A-B) is

1) 63 (B) - 16 (C) 16 (D) none of these

3 + which y these is (oelect?) ten (70") = 2 ten (20) + for (50") ten(76) = 2ten(56) + 2ten(86) ten(76) - 2ten(50) = ten(86) ten(76) = ten(86) + ten(76)

4+ value y Sin (10) Sin (30) Sin (50) Sin (70) is 1) 3 (B) \(\frac{13}{16} \) (C) -3 (D) none of these

5 + Valu of cos(20) (os(40) (os (60) cos (80) is

1) \$ (B) \$ (C) 3 (D) V3

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Ons 6 = (0)(8A)(0)(5A) - (0)(12A) (0)(9A) = 7 Sin (8A) (0)(5A) + (0)(12A) Sin (9A)

(A) Cot(2A) (B) Cot(4A) (C) fm(2A) (B) fm(4A)

ON 7 - SinA + Sin(2A) + Sin(4A) + Sin(5A) = ?

(A) 4 cos (A) cos (3A) sin (3A) (B) 4 cos (A) cos (3A) sin (3A)

(0) 4 (a(4) cos(3A) (0) none of these

ON 8 + COY(3) + COY(3) + COY(5) + COY(7) = ?

 O^{-1} + (1+cos 3) (1+cos 3) (1+cos 3) (1+cos 3) = 7

ON 10+ Sin(SN) - 2 Sin(3x) + Sinx - (CS(SX)) - (CXX

Fill in the blank

On 11 value of ton (3) =

(1) 52-1 (B) 52+1 (e) 55-1 (D) none of these

Q12 - ten A + ten (60°+A) - ten (60°-A) =

(A) ton (2A) (B) ton (3A) (C) 2 ton (3A) (D) 3 ton (3A)

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ON 13+ (CON-COSE)2 + (SMN-SMB)2 = ?

(A) 45112(x+B) (B) 45112(x-B) (C) 4 (a2(x-B)

(0) none of these

On 14 + 91 cm Sinx = -]; x is in un quadlont

(A) $\sqrt{3-53}$, $-\sqrt{3+53}$, $-\sqrt{3-53}$

(8) V2-13, V2+13, 2-13

(c) - $\sqrt{2-\sqrt{3}}$, $\sqrt{2+\sqrt{3}}$, - $\sqrt{2-\sqrt{3}}$

(D) none of these

OM 15 + CO(20) COSQ - COS(30). COS(90) = 7

(A) Sin(50)(08/50)

(B) 5/n (50) 5/n (50)

(c) (08/50) (08/50)

(P) Sin(50) COS(30)