SSC GD CONSTABLE 2023

सफलता का महामंत्र

DAY-24

TRIGONOMETRY

त्रिकोणमिति

MATHS

LIVE 05:00 PM

SSC GD 2023 (सफ़लता का महामंत्र)

Q1.What will be the value of sin(11pie/6)

मान ज्ञात करे sin(11pie/6)

(1)$2/\sqrt{3}$

(2)1/2

(3)$-2/\sqrt{3}$

(4) -1/2

Q2. if tanA =5/12 then find the value of the $\frac{sinA+cosA-tanA}{secA+cosecA-cot\ A}$

मान ज्ञात करे $\frac{sinA+cosA-tanA}{secA+cosecA-cot\ A}$

(1) 995/1001

(2) 885/43

(3) 432/445

(4) Not

Q3.cos $25^0 = \frac{1}{\sqrt{5}}$

then find the value of

तो मान ज्ञात करे

$\cos 65^0 + \tan 25^0$

(1) $\frac{2+\sqrt{5}}{2\sqrt{5}}$

(2) $\frac{2+\sqrt{5}}{\sqrt{5}}$

(3) $\frac{1+\sqrt{5}}{\sqrt{5}}$

(4) $\sqrt{5}$

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Q4.Sin $21^0 = \frac{x}{y}$,then find the value of

तो मान ज्ञात करें

sec 21^0 – sin69^0

1) $\frac{y^2}{x\sqrt{y^2-x^2}}$

2) $\frac{x^2}{x\sqrt{y^2-x^2}}$

3) $\frac{y^2}{x\sqrt{x^2-y^2}}$

4)-not

Q5.What will be the value of /
मान ज्ञात करे sinX –cosX
If
sinX +cosX =17/13

(1) 5/17

(2) 7/17

(3) 7/13

(4) 3/19

Q6.What will be the value of / **मान ज्ञात करे**

$\frac{2}{3}\text{cosec}^2 58^0 - \frac{2}{3}\cot 58^0 \tan 32^0$

$\frac{5}{3}\tan 13^0 \tan 37^0 \tan 45^0 \tan 53^0 \tan 77^0$

(1) 0

(2) 2

(3) 1

(4) -1

Q7 .If $\sec 17^0 - \sec 73^0$

What will be the value of / **मान ज्ञात करे**

$\text{Sin } 17^0 = x/y$

(1) $\frac{y^2-x^2}{xy}$

(2) $\frac{x^2}{\sqrt{y^2-x^2}}$

(3) $\frac{x^2}{y\sqrt{y^2+x^2}}$

(4) not

Q8.What will be the value of / **मान ज्ञात करे** cos X

$$\frac{1}{cosx} - \frac{1}{cotx} = \frac{1}{p}$$

(1) $\frac{2p}{p^2+1}$

(2) $\frac{p}{p^2+1}$

(3) $\frac{p^2}{p^2+1}$

(4) 1/p

Q9.What will be the value of / **मान ज्ञात करे** $\frac{tan^2x+1}{tan^2x-1}$

$\frac{sinx+\cos x}{sinx-cosx}=5/4$

(1) $\frac{40}{41}$

(2) $\frac{41}{40}$

(3) $\frac{30}{41}$

(4) $\frac{39}{41}$

Q10.What will be the value of / **मान ज्ञात करे** tan3x

Tan7x tan2x =1

(1) $\frac{1}{\sqrt{3}}$

(2) $\sqrt{3}$

(3) 1

(4) not

Q11. If , $\frac{\sqrt{1-sinx}}{\sqrt{1+sinx}}$

What will be the value of / मान ज्ञात करे

tanX = $\frac{8}{15}$

(1) $1/\sqrt{3}$

(2) 3/5

(3) 2/5

(4) 0

Q11.What will be the value of /
मान ज्ञात करे

$7/\sec^2 x + 3/(1+\cot^2 x) + 4\sin^2 x$

(1) 8

(2) 6

(3) 9

(4) 7

Q12.X sin45 =y cosec30

Find /ज्ञात करे $\frac{x^4}{y^4}$

(1)4^3

(2) 6^3

(3) 2^3

(4) 8^3

Q13.What will be the value of /
मान ज्ञात करे sinx - cosx
Sin x + cos x =17/13 ,

(1) 7/13

(2) 13/7

(3) 5/13

(4) 12/13

Q14.What will be the value of / मान ज्ञात करे sinx
If
Sec x =25/24

(1) 24/25

(2)7/25

(3)25/7

(4)24/7

Q15.What will be the value of / **मान ज्ञात करे** secx

if

$\tan X = \frac{9}{40}$

(1) 40/41

(2) 41/40

(3) 2/5

(4) 0

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Q1.What will be the value of /
मान ज्ञात करे sinX –cosX
If
sinX +cosX =17/13

(1) 5/17

(2) 7/17

(3) 7/13

(4) 3/19

Q2.What will be the value of / मान ज्ञात करे tanX = ?

If

$7\sin^2X + 3\cos^2X = 4$

(1) $1/\sqrt{3}$

(2) $\sqrt{3}$

(3) 1

(4) 0

Q3.What will be the value of / मान ज्ञात करे cos X

$$\frac{1}{cosx} - \frac{1}{cotx} = \frac{1}{p}$$

(1) $\frac{2p}{p^2+1}$

(2) $\frac{p}{p^2+1}$

(3) $\frac{p^2}{p^2+1}$

(4) 1/p

Q4.What will be the value of / मान ज्ञात करे

$7/\sec^2 x + 3/(1+\cot^2 x) + 4\sin^2 x$

(1) 8

(2) 6

(3) 9

(4) 7

Q5.What will be the value of
/ मान ज्ञात करे cosX
if cosecX –cotX =5

(1) 13/15

(2) 12/11

(3) 11/15

(4) 12/13

Q6.What will be the value of / मान ज्ञात करे

sinX

if secX +tanX =4

(1) 13/15

(2) 15/17

(3) 17/15

(4) 17/13

Q7.What will be the value of /
मान ज्ञात करे
sinx +cosx
if
Secx + tanx = 2 +$\sqrt{5}$

(1) $\frac{3}{2}$

(2) $\frac{3}{\sqrt{5}}$

(3) 7/9

(4) not

Q8.What will be the value of /
मान ज्ञात करे $\cos^4 X - \sin^4 X + 1$
if $\cos^2 X - \sin^2 X = 1/3$

(1) 1

(2) 1/3

(3) 4/3

(4) 5/13

Q9. If/यदि $\sin x + \operatorname{cosec} X = 2$

then /तो

$\sin^9 x + \operatorname{cosec}^9 X = ?$

(1) 1

(2)2

(3) 0

(4)-1

Q11.What will be the value of / मान ज्ञात करे

$1/(1+\tan^2 x) + 1/(1+\cot^2 x)$

(1) 1

(2) 2

(3) 0

(4) .5

Q12What will be the value of / मान ज्ञात करे sinX
If/यदि
Cotx +cosecx =3

(1) 3/4

(2) 3/5

(3) 4/5

(4) 7