

CLASS 10 OPTIONAL MATHS

Class: 10

ECOECEIS-ST-2080

D-29

Sub : Opt. Maths

Time : 2 hrs

F.M: 50

P.M: 18

Attempt all the questions.

Group: A

[4×1=4]

- 1] a) Define remainder theorem.
b) If the lines $ax+by+c=0$ and $px+qy+r=0$ are parallel, prove that $aq=b.p$
- 2] a) Write the formula of $\cos_2 A$ in form of $\tan^2 A$.
b) Point (x, y) is reflected in the line $x=0$ at first and then the image so formed is reflected in the line $y=k$. Find the final image.

Group: B

[6×2=12]

- 3] a) If a factor of a polynomial $p(x)=2x^3-6x^2-5m-2$ is $x-2$, find the value of m .
b) Which term of the series $5+9+13+\dots$ is 85? Find it.
- 4] a) If the lines $3x+my=5$ and $\frac{x}{2} + \frac{y}{3} = 1$ are parallel to each other, find the value of m .
b) If the lines represented by $16x^2-kxy+9y^2=0$ are coincident. Find the value of k .
- 5] a) If $\cos\theta = \frac{1}{2} \left(a + \frac{1}{a} \right)$ prove that: $\cos 2\theta = \frac{1}{2} \left(a^2 + \frac{1}{a^2} \right)$
b) Prove that: $\sin 75^\circ - \sin 15^\circ = \frac{1}{\sqrt{2}}$

Group: C

[6×4=24]

- 6] If $f(x)=2x+1$ and $g(x) = \frac{3x+1}{2}$ are two functions. If $fg(x)=g^{-1}(x)$. Find the value of x .
- 7] A function $f(x)$ is defined as follows: $f(x) = \begin{cases} kx+3 & \text{for } x \geq 2 \\ 3x-1 & \text{for } x < 2 \end{cases}$ at $x=2$, If $f(x)$ is continuous at $x=2$, then find the value of k .
- 8] Solve by matrix method:
 $\frac{4}{x} + \frac{1}{y} = 3, \frac{2}{x} - \frac{5}{y} = -4$
- 9] Find the equation of a pair of lines represented by the equation $x^2 - 2xy \csc \theta + y^2 = 0$. Also, find the angle between them.
- 10] Prove that: $(2\cos A + 1)(2\cos A - 1)(2\cos 2A - 1) = 2\cos 4A + 1$

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CO Houle



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