

**SOLUTIONS & ANSWERS FOR KERALA ENGINEERING
ENTRANCE EXAMINATION-2011 – PAPER II
VERSION – B1**

[MATHEMATICS]

1. Ans: $\frac{1}{2}(1 + \sqrt{1 + 4 \log_2 x})$

Sol: $y = 2^{x^2 - 1}$
 $\log_2 y = x(x - 1)$
 $\Rightarrow x^2 - x - \log_2 y = 0$
 $x = \frac{1 \pm \sqrt{1 + 4 \log_2 y}}{2}$
 $\therefore f^{-1}(x) = \frac{1}{2}(1 + \sqrt{1 + 4 \log_2 x})$

2. Ans: 6

Sol: $n(A \cap B) \cap A = n(A \cap B \cap A)$
 $= n(A \cap A) = n(B \cap A)$
 $= n(A - B) = 6 - 2$
 $= 6$

3. Ans: $\sin x^2 + \cos x^2$

Sol: $f(x) = \sin x + \cos x$; $g(x) = x^2$
 $\log(x) = \sin x^2 + \cos x^2$

4. Ans: 32

Sol: $n(A) = 5$
 $n(P(A)) = 2^5 = 32$

5. Ans: $-3 < x < 3$

Sol: $f(x) = \frac{1}{\sqrt{9 - x^2}}$
 $\Rightarrow 9 - x^2 > 0$
 $\therefore -3 < x < 3$

6. Ans: $\frac{\pi}{2}$

Sol: Period of the function $|\sin 2x| + |\cos x|$
 Period of $|\sin 2x| = \frac{\pi}{2}$; Period of
 $|\cos 8x| = \frac{\pi}{4}$
 $\therefore$ The required answer is $\frac{\pi}{2}$.

7. Ans: 0

Sol: $i^1 - i^2 + i^3 - i^4 + \dots + i^{100}$
 This is a GP with $a = i$ and $r = -i$
 $S_{100} = \frac{i(1 - i^{100})}{1 + 1} = 0$

8. Ans: $-\frac{1}{2}$

Sol: $\ln\left(\frac{2+i}{3i-1}\right) = \frac{(-1-ai)}{(-1-3i)}$
 $= \frac{-2a-1}{1+3^2} = 0$
 $\therefore a = -\frac{1}{2}$

9. Ans: $\frac{\pi}{2}$

Sol: $\left(\frac{i}{2} - \frac{2}{1}\right) = \frac{i}{2} + 2i = \frac{5i}{2}$
 $\therefore \arg\left(\frac{i}{2} - \frac{2}{1}\right) = \frac{\pi}{2}$

10. Ans: $-|z_1 - z_2|^2$

Sol: $z_1 = 3 + 4i$; $z_2 = -1 + 2i$
 $|z_1 + z_2|^2 = 2(|z_1|^2 + |z_2|^2)$
 $= |z_1 + z_2|^2 = 2(25 + 5)$
 $= 40 - 60 = -20$
 From the options we get
 $-|z_1 - z_2|^2 = -20$

11. Ans: 0

Sol: $(z_1 + z_2) \leq |z_1| + |z_2|$
 Equality holds when $z_1, z_2, z_1 + z_2$ are collinear with the origin
 $\therefore \arg\left(\frac{z_1}{z_2}\right) = \arg z_1 - \arg z_2 = 0$

12. Ans: 6, $\frac{2}{3}$

Sol: For equal roots,
 $(2 + m)^2 - 4(m^2 - 4m + 4) = 0$
 $4 + m^2 + 4m - 4m^2 + 16m - 16 = 0$
 $3m^2 - 20m + 12 = 0$
 $m = \frac{20 \pm \sqrt{400 - 144}}{6} = \frac{20 \pm 16}{6}$
 $m = 6, \frac{2}{3}$

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feb 3 2021 key concepts quadratic formula the solutions to a quadratic equation of the form $ax^2 + bx + c = 0$, $a \neq 0$ are given by the formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ how to solve a quadratic equation using the quadratic formula write the quadratic equation in standard form $ax^2 + bx + c = 0$