



Dnyansagar Coaching Classes, A'nagar

Unit Test

(Complex number)

Std. - XI

Sub- Math-II

Time - 1hr

Max Marks - 20

- Q. 1 Solve any two. 06**
- i) Find $(1 + 2i)(-2 + i)$ in the form of $a + ib$ where $a, b \in \mathbb{R}$.
- ii) $\frac{2 + \sqrt{3}i}{4 + \sqrt{3}i}$
- iii) $\frac{x + iy}{2 + 3i} = 7i$
- Q. 2 Find modulus and argument also find out conjugate of $a + ib$. (any two) 06**
- i) $7 - 5i$ ii) $1 + i$ iii) $-4 - 4i$
- Q. 3 Express complex number in polar form. (any two) 06**
- i) $1 + i$ ii) $3i$ iii) $\frac{2 + 6\sqrt{3}i}{5 + \sqrt{3}i}$
- Q. 4 Draw Argand diagrams for following. 02**
- i) $Z_1 = 1 + i, Z_2 = 1 - i, Z_3 = -1 + i, Z_4 = -1 - i$



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