

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

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#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

3. (a) Use DeMoivre's theorem to put $(\sqrt{3} + i)^3$ in the form $a + bi$. 5
- (b) Find the sum to n terms of the series $0.7 + 0.77 + 0.777 + \dots$ upto n terms. 5
- (c) If one root of the quadratic equation $ax^2 + bx + c = 0$ is square of the other root, show that $b^2 + a^2c + ac^2 = 3abc$. 5
- (d) The cost of manufacturing x mobile sets by Josh Mobiles is given by $C = 3000 + 200x$ and the revenue from selling x mobiles is given by $300x$. How many mobiles must be produced to get a profit of ₹7,03,000 or more. 5
4. (a) If $y = ae^{mx} + be^{-mx}$ and $\frac{d^2y}{dx^2} = ky$, find the value of k in terms of m . 5
- (b) A man 180 cm tall walks at a rate of 2 m/s away from a source of light that is 9 m above the ground. How fast is the length of his shadow increasing when he is 3 m away from the base of light? 5
- (c) Evaluate the integral $\int \frac{x}{(x+1)(2x-1)} dx$. 5
- (d) Find length of the curve $y = 2x^{3/2}$ from (1, 2) to (4, 16). 5

BCS-012

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P.T.O.

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