

Question 5

- (a) If $y = (\cot^{-1} x)^2$, show that $(1+x^2)^2 \frac{d^2 y}{dx^2} + 2x(1+x^2) \frac{dy}{dx} = 2$ [5]
- (b) Find the maximum volume of the cylinder which can be inscribed in a sphere of radius $3\sqrt{3}$ cm. (Leave the answer in terms of π) [5]

Question 6

- (a) Evaluate: $\int \frac{\cos^{-1} x}{x^2} dx$ [5]
- (b) Find the area bounded by the curve $y = 2x - x^2$, and the line $y = x$. [5]

Question 7

- (a) Find the Karl Pearson's co-efficient of correlation between x and y for the following data: [5]

| | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|
| x | 16 | 18 | 21 | 20 | 22 | 26 | 27 | 15 |
| y | 22 | 25 | 24 | 26 | 25 | 30 | 33 | 14 |

- (b) The following table shows the mean and standard deviation of the marks of Mathematics and Physics scored by the students in a school: [5]

| | Mathematics | Physics |
|--------------------|-------------|---------|
| Mean | 84 | 81 |
| Standard Deviation | 7 | 4 |

The correlation co-efficient between the given marks is 0.86. Estimate the likely marks in Physics if the marks in Mathematics are 92.

Question 8

- (a) Bag A contains three red and four white balls; bag B contains two red and three white balls. If one ball is drawn from bag A and two balls from bag B, find the probability that: [5]
- (i) One ball is red and two balls are white;
- (ii) All the three balls are of the same colour.

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