

**Question 5**

(a) If  $y = (\cot^{-1} x)^2$ , show that  $(1+x^2)^2 \frac{d^2y}{dx^2} + 2x(1+x^2) \frac{dy}{dx} = 2$  [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  $\pi$ ) [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:

- One ball is red and two balls are white;
- All the three balls are of the same colour.

[5]

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