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#### 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 [5] radius  $3\sqrt{3}$  cm. (Leave the answer in terms of  $\pi$ )

### 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 [5] following data:

æ	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 [5] Mathematics and Physics scored by the students in a school:

Land Service Control	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.

### Ouestion 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:
  - (i) One ball is red and two balls are white;
  - (ii) All the three balls are of the same colour.

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