Question 5

(a) If $y = \left(\cot^{-1} x\right)^2$, show that $\left(1 + x^2\right)^2 \dfrac{d^2 y}{dx^2} + 2x\left(1 + x^2\right)\dfrac{dy}{dx} = 2$ [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 π)

Question 6

(a) Evaluate: $\displaystyle\int \dfrac{\cos^{-1} x}{x^2}\,dx$ [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:

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

	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 [5]
     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.

3

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