

**QUESTION 5**

- (a) If,  $e^{x(x+1)} = 1$ , then show that :

**[10]**

$$\frac{d^2y}{dx^2} = \left(\frac{dy}{dx}\right)^2$$

- (b) A printed page is to have a total area of 90 sq. cm with a margin of 1 cm at the top and on each side and margin of 1.5 cm at the bottom. What should be the dimensions of the page so that the printed area will be maximum ?

**QUESTION 6**

- (a) Evaluate :  $\int \frac{dx}{x\{6(\log x)^2 + 7 \log x + 2\}}$

**[10]**

- (b) Find the area of the region bounded by the curve  $x = 4y - y^2$  and the  $y$ -axis.

**QUESTION 7**

- (a) Ten candidates received percentage marks in two subject as follows :

**[10]**

Candidate	A	B	C	D	E	F	G	H	I	J
Mathematics Marks	80	88	76	74	68	65	40	43	40	80
Statistics Marks	72	84	90	66	54	50	54	38	30	43

Calculate Spearman's rank correlation coefficient and interpret your result.

- (b) The following results were obtained with respect to two variable  $x$  and  $y$  :

$$\Sigma x = 30, \Sigma y = 42, \Sigma xy = 199, \Sigma x^2 = 184, \Sigma y^2 = 318, n = 6$$

Find the following :

- The regression coefficients.
- Correlation coefficient between  $x$  and  $y$ .
- Regression equation of  $y$  on  $x$ .
- The likely value of  $y$  when  $x = 10$

**QUESTION 8****[10]**

- (a) A bag contains 8 red and 5 white balls. Two successive draws of 3 balls are made at random from the bag without replacements. Find the probability that the first draw yields 3 white balls and the second draw 3 red balls.
- (b) A box contains 30 bolts and 40 nuts. Half of the bolts and half of the nuts are rusted. If two items are drawn at random from the box, what is the probability that either both are rusted or both are bolts?

**QUESTION 9****[10]**

- (a) Using De Moivre's theorem prove that :

$$\left( \frac{1 + \cos \theta + i \sin \theta}{1 + \cos \theta - i \sin \theta} \right) = \cos n\theta + i \sin n\theta, \text{ where } i = \sqrt{-1}$$

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