CA Foundation Mathematics Practice set for exam.

- (b) 9.048
- (c) 10.048
- (d) 11.048

16. If the coefficient of correlation between X and Y variables is +0.90 then what will be the coefficient of determination?

- (a) 0.30
- (b) 0.81
- (c) 0.94
- (d) None of these

17. Spearman's rank correlation formula is given by $R = 1 - \frac{6\Sigma D^2}{n(n^2-1)}$, where D stands

for:

- (a) Difference between the rank of two variables
- (b) Sum of the rank of two variables
- (c) Both (a) and (b)
- (d) Either (a) and (b)
- 18. The product moment correlation coefficient is obtained by the formula

(a)
$$r = \frac{\Sigma xy}{\sigma_x \sigma_y}$$

(b) $r = \frac{\Sigma xy}{N \sigma_x \sigma_y}$
(c) $r = \frac{\Sigma xy}{N \sqrt{\sigma_x \sigma_y}}$

(d)
$$\frac{\Sigma xy}{\sqrt{N\sigma_x\sigma_y}}$$

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- (a) Positive
- (b) Neg

(d) none

20. $\Sigma X = 900, \Sigma Y = 700, \Sigma X Y = 3900, \Sigma X^2 = 6360, \Sigma Y^2 = 2860, N = 10$, the value of by will be -

- (a) 0.6132
- (b) 1.3636
- (c) -0.6132
- (d) None of these
- 21. If the regression equations are 8x 3y + 50 = 0 and 14x 7y 60 = 0 and standard deviation of y is 1. The coefficient of correlation is
 - (a) 2
 - (b) 1
 - (c) 0.87
 - (d) -0.87

22. The rank correlation coefficient is obtained by the formula -

(a)
$$r_r = 1 + \frac{6\Sigma D^2}{N(N^3 - N)}$$

(b) $r_r = 1 - \frac{6\Sigma D^2}{N(N^3 - N)}$

Rejection is the injection of progress.