

		K190 0301
Examina (2014 Adr PLEMENTAR)	ation, April 2019 nission Onward Y COURSE IN C) Is) OMMERCE
		Max. Marks: 40
İ	PART – A	
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b) B	c) A and B	d) A or B
b) 90	c) 95	d) 99
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10. What is addition theorem in probability ?



PART - C

Answer any six questions (Not exceeding one page). Each question carries 3 marks.

- 11. What is Bayes theorem ?
- 12. Explain:
 - a) Permutation
 - b) Combination
 - c) Mutually exclusive events.
- 13. Two judges in a dance competition rank the 12 entries as follows :

X: 1 2 3 4 5 6 7 8 9 10 11 12

Y: 12 9 6 10 3 5 4 7 8 2 11 1

What degree of agreement is there between the judgments of the two judges?

- 14. A bag contains 6 white, 4 red and 10 black balls. Two balls are drawn at random. Find the probability that they will both be black.
- 15. Calculate the coefficient of correlation for the following data:

X: 9 18 18 20 20 23

Y: 23 33 23 42 29 32

16. A bag contains 5 white and 3 black balls. Two balls are drawn at random one after the other without replacement. Find the probability that both balls drawn are black. -3-

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17. Calculate trend values taking a 3 yearly period of moving average from the following data :

Year: 2003 2004 2005 2006 2007 2008 2009 2010 Sales

(in hundred units): 5 7 9 12 11 10 8 12

Year: 2011 2012 2013 2014 2015 2016 2017

Sales

(in hundred units): 13 17 19 14 13 12 15

18. How many permutations and combinations can be obtained from 6 objects taken 3 at a times? (6x3=18)

PART - D

Answer any two questions. Each question carries 8 marks.

- What is correlation? Discuss the methods used for calculating correlation.
- 20. Find the two regression equations from the following data :

Age of Husband: 18 19 20 21 22 21 24 25 26 27

Age of Wife : 17 17 18 18 19 19 19 20 21 22

- 21. a) A coin is tossed six times. What is the probability of obtaining four or more heads?
 - b) A life insurance salesman sells on the average 3 life insurance policies per week. Use Poisson's law to calculate the probability that in a given week he will sell 2 or more policies but less than 5 policies. (2x8=16)