

UNDERGRADUATE INTERMEDIATE EXAMINATION, 2020
KISHORE BHARATI BHAGINI NIVEDITA COLLEGE (CO-ED) (542)
B.COM SEMESTER III (HONOURS/GENERAL/MAJOR) EXAMINATION
(UNDER CBCS, 2020)

BUSINESS MATHEMATICS & STATISTICS
(GE3.3CHG)

FULL MARKS -40

TIME-1 HOUR Date of Exam: 9.12.2020

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SEND THE PHOTO OF YOUR ANSWER SHEET IN THE ABOVE E-MAIL ID

Answer the following questions (any five) : 8×5=40

1. A certain sum amounts to Rs 72,900 in 2 years at 8 % p.a compound interest, compound annually. Find the sum.
2. In how many ways can 5 workers be appointed to different posts?
3. Find the L.C.M of 6, 42,105 by the set theory.
4. If $A = \{3,4,5,6,7\}$, $B = \{5,6,7,8\}$, Find $A-B$.
5. Find the co-efficient of correlation from the following data

x:1 2 3 4 5

y:3 2 5 4 6

6. Find the linear regression equations of Y on X and X on Y from the following

X:1 2 3 4 5

y:6 8 11 8 12

7. For the following data the co-efficient of rank correlation is :

X: 10 1 5 2 8 6 3

y:12 15 11 19 20 23 31

8. Using 3 yearly moving average find trend values for the following series :

Year : 1 2 3 4 5 6 7

Value: 4 7 8 2 10 15 17

9. From the following, compute consumer price index number for current year.

Commodity	Base Year		Current year	
	PRICE (Rs)	Quantity	PRICE (Rs)	Quantity
A	2	98	10	70
B	7	73	13	61
C	6	45	5	82
D	8	84	4	53

10. A coin is tossed at random .Find the probability of getting tail.