D 53928	(Pa _i	ges : 2) Name
	MMERCE www.commercefactoryblog.wordpress	Reg. No
THIRD SEM	ESTER B.Com./B.B.A.	DEGREE (UG-CCSS) EXAMINATION ARY 2014
and of a		DE)
ans, J	[Commo	on Course)
n J	A 13—BASIC NU	MERICAL SKILLS
5		imissions)
Time: Two Hours and		Maximum 27 Weightage
t.		ritten only in English.
	ra.	rt B
		TON A
	pe questions. Answer all nin	e questions :
	(x) + 4(3 + x) - 12 = x + 13.	
	rm of the AP:-1.0.1.	<i>(</i>
The second secon	int sets. ✓	
Define Unive		
	metic Progression	
~	lard deviation.	
4014	nn Matrix. V	
(8) What do you	mean by roots of the quadra	atic equation ?
	mean by submatrix?	
à.	*	(9 × 1 = 9 weightage)
	Section	on B
		any five questions out of seven :
(16 Using the	sets A = {2, 3, 4, 5, 6, 7, 8}	; B= {2, 4, 5, 6, 7}; C= {5, 6, 7, 8} Variety that
(A-B)∪C=($(A-B)\cap (A-C)$.	$B = \{2, 4, 5, 6, 7\}; C = \{5, 6, 7, 8\}.$ Verify that
(11) Solve -2 + 10-	+ 21 = 0 by factorization m	
IΥ		
Solve the system	m of equations by eliminat	ion method: $13x + 17y = 91$ and $13x + 3y = 49$.

/	(13)	Find the interest?	total interest	amount	at the	end of	8th	year	for	Rs.	11,300	at	9%	p.a.	simple
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What are the benefits of weighted Arithmetic Mean.

Find BA, if A =
$$\begin{bmatrix} 3 & 2 & 3 \\ 3 & 4 & 2 \\ 1 & 0 & 1 \end{bmatrix}$$
 and B = $\begin{bmatrix} 2 & 1 & 2 \\ 1 & 6 & 1 \\ 2 & 3 & 4 \end{bmatrix}$.

 $(5 \times 2 = 10 \text{ weightage})$

SECTION C

III. Essay (Answer any two question out of 3).

17 Compute Standard Deviation of the following data:

7	X	:	2	. 7	11	15	18	20	25
	Frequency	:	2	6	10	12	10	8	2
118 In a	ash 1 am					And the second	C		

- 18) In a school of Fine Arts 150 students are dancers and 98 students are singers. If 63 students are both dancers and singers. Find out total number of students in the school?
- Mr. Aravind borrowed from a bank Rs. 10,000 and agreed to pay back the loan with an interest of Rs. 1,400 in 12 installments. Each installment is Rs. 100 less than the previous one. Find the first five installments.



 $(2 \times 4 = 8 \text{ weightage})$

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