B.Com. Part-II (Semester-III) Examination

BUSINESS MATHEMATICS

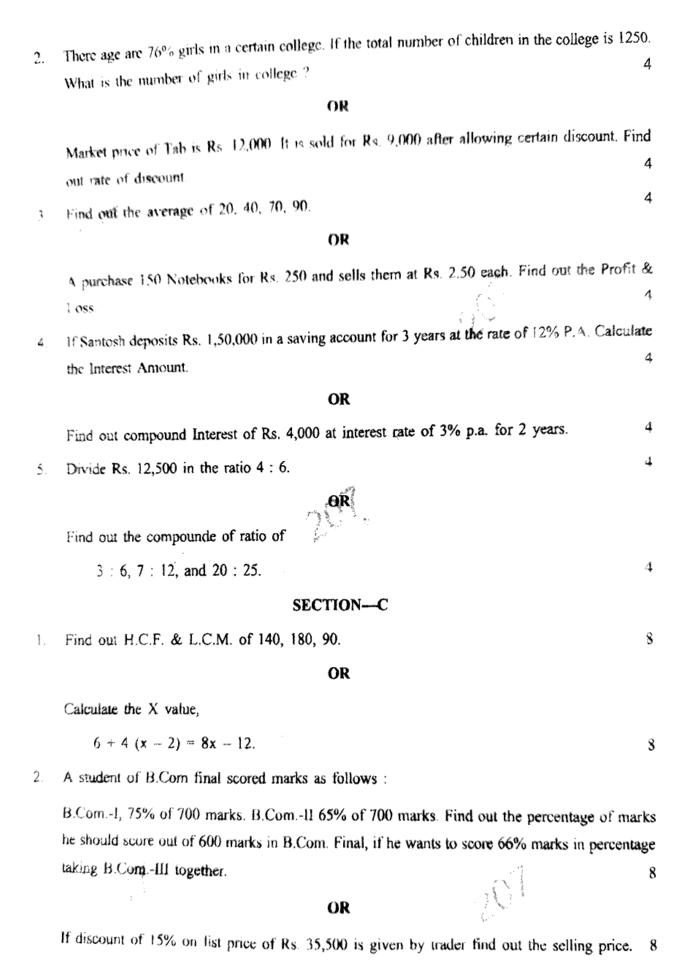
Time: Three Hours]	[Maximum Marks: 80							
Note:—(1). There are three sections (A, B & C).							
Section-A: 20 Marks. Section-B:	20 Marks, Section-C: 40 Marks.							
(3) All questions are compulsory.								
(4) Section-B & Section-C comprise of short and long questions respectively, one each								
from respective unit halving internal choice from the same unit.								
(5) Show necessary working notes when	ever necessary.							
SECTION—A								
N.B.:—(1) Answer ALL the questions.								
(2) Choose the correct answer and rewrite it.								
1. L.C.M. of 36, 72								
1. E.C.M. of 36, 72 (a) 70	(b) 72							
(c) 84	(d) 71							
2. H.C.F. of 24, 84								
(a) 14	(b) 12							
(c) 18	(d) 13							
3. If $3x + 4 = 2x + 6$ the value of x will be	•							
(a) 4	(b) 3							
(c) 2	(d) 13							
4. Sum of two numbers is 20 and difference is 6	Sum of two numbers is 20 and difference is 6. The Numbers are							
(a) 13, 7	(b) 12, 7							
(c) 11,5								
	(d) 13, 5							
5. If the dost of a pen worth Rs. 50 is increased by Rs. 25. The rate of increase is (a) 25%								
(c) 75%	(b) 30%							
	(d) 50%							
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(Contd.)

6.	$\frac{3}{4}$ 1	he convert the percentage is			
	(a)	75%	(b)	80%	
	(c)	65%	(d)	None of these	
7.	Cost price is Rs. 2,000 is sold for Rs. 1,500. The rate of discount is				
	(a)	350%	(b)	15%	
	(c)	220%	(d)	25%	
8.	12% commission on the sale of goods worth Rs. 20,000 is				
	(a)	Rs. 2,200	(b)	Rs. 2,300 Rs. 2,500	
	(c)	Rs. 2,400	(d)	Rs. 2,500	
9.	9. Daily wages of seven workers are Rs. 250, Rs. 350, Rs. 370, Rs. 400, Rs. 450, Rs. 460				
	Rs.	480. Average wages is Rs			
	(a)	394.28	(b)	390.24	
	(c)	392.28	(d)	393.22	
10.	The	27.85 Average of 25, 35, 45, 10 is			
	(a)	27.85	(b)	28.75	
	(c)	29.75	(d)	30.28	
11.	Prof	fit formula is			
	(a)	S.P. —C.P.	(b)	C.PS.P.	
	(c)	S.P.—Profit	(d)	Above (a) and (b)	
12.	Cost	Price is Rs. 150 and Selling Price is Rs. 2	200. 1	The profit % is	
	(a)	34.35%	(b)	35.45%	
	(c)	36.34%	(d)	33.33%	
13.	Loss	percentage formula is			
	(a)	Profit S.F. ×100	(b)	C.P. × 100	
	(c)	$\frac{\text{Loss}}{\text{C.P.}} \times 100$		Above (a) and (b)	

14.	The Simple Interest of Rs. 10,0	000 @ 12% for one	year is Rs.	
	(a) 1.200	(b)	1,400	
	(c) 1,600	(d)	1,800	
15.	Calculate S.I. = 100, P = 500	N = 2 years R = ?		
	(a) 20° c	(b)	25%	
	(c) 15%	(d)	10%	
16.	The Compound Interest formula	a is		
	(a) $C.L = P \left[1 - \frac{N}{100} \right]^R + P$	(b)	$C.I. = P \left[1 + \frac{R}{100} \right]$	
	(c) $C.I. = P \left[1 + \frac{R}{100} \right]^N - P$	(d)	None of these	
:7,	Compound Interest of Rs. 4,000	@ 10% P.A. for thr	ree years is Rs.	
	(a) 1330	(b)	1324	
	(c) 1340	(d)	1312 tio of boys and girls in class is	
.8.	In a class of 52 students, 12 students	lents are girls; the Rat	tio of boys and girls in class is	
	(a) 10:3		10 : 4	
	(c) 3:11		10:5	
19.	The ratio equivalent to 5:3 is			
	(a) 9:27	(b)	25 : 15	
	(c) 25 : 12	(d) 9	9:25	
20.	Fourth proportional of 12, 24 an	d 48 is	. •	
	(a) 98	(b) 9	99	
	(c) 96	(d) 9	20×1=2	٥
		SECTION—B		·
1.	Find out the L.C.M. of 80, 100,	112.		
		OR		4
	the age of father and age of daugh	daughter is 130 and di	fference between their ages is 30. Find	i
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I purchased a home for Rs. 7,00,000. If commission was charged at 4%, calculate the Amount of commission and how much I have to pay for this Home.

OR

A car is purchased for Rs. 80,000 but it has been found defective and hence it is sold for Rs. 60,000. Find out Profit & Loss percentage.

4 At what rate should Rs. 1,000 be invested so as to get Rs. 250 as Interest in 5% years. 8

OR

The amount with compound interest of a certain principal at 3% p.a. for two years is Rs. 28,550. Find our the Principal Amount.

5. A, B and C are cricket players. Their ratio is A : B = 7 : 4, and B : C = 4 : 3, their total runs were 420. Find out the runs of each player.

OR

The sum of present ages of 3 persons is 234 years. Ten years ago their ages were in the ratio 8:12:14.

Find their present Ages.

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