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

BUSINESS MATHEMATICS

Time: Three Hours]			[Maximum Marks : 80						
Note:—(1) There are three Sections (A, B & C).									
(2) Section-A: 20 marks, Section-B: 20 marks, Section-C: 40 marks.									
(3) All questions are compulsory.									
(4) Section-B and Section-C comprises of short and long questions respectively,									
	one each from respective unit having internal choice from the same unit.								
	(5) Show necessary working notes wherever necessary.								
N.T	SECTION-	—A	Y, 2						
No	ote:—(1) Answer the ALL questions. (2) Choose the correct answer and rewrit	ta it	*						
(2) Choose the correct answer and rewrite it.									
1.	, , 	(l -)	12						
	(a) 11	(p)	13						
2.	(c) 143 G.C.D. of 44, 54, 87	(u)	2717						
۷.	(a) 1	(b)	2						
	(c) 3	(d)							
3.	If $x - 4 = 6$ the value of x will be	(u)	7						
	(a) 1.5	(b)	2.0						
	(c) 10	` ′	24						
4.	Sum of two numbers is 8 and difference is 4.	` ′							
	(a) 4, 4	(b)	5, 3						
	(c) 7, 1	(d)	6, 2						
5.	5% on 4.45 is								
	(a) 222.5	(b)	22.25						
	(c) 2.225	(d)	.2225						
6.	40% of a number added to 42 gives the numb	er, t	the number is						
	(a) 56	(b)	70						
	(c) 84	(d)	98						
7.	Cost price is Rs. 1,920 is sold for Rs. 1,680.	The	rate of discount is						
	(a) 12.50%	(b)	1.25%						
	(c) .125%	(d)	.0125%						
8. A 5.5% commission on the turnover is Rs. 2,750, the turnover is									
	(a) Rs. 151.25	` ′	Rs. 500						
	(c) Rs. 5,000	(d)	Rs. 50,000						

9.	The average of daily wages of 5 workers is average wages is	Rs. 4	0 and other 3 workers is Rs. 48. The
	(a) Rs. 41	(b)	Rs. 42
	(c) Rs. 43	(d)	Rs. 44
10.	The average of 15, 10, 14, 13	(-)	
	(a) 11	(b)	12
	(c) 13	. ,	None of these
11.	Correct formula is	` /	
	(a) S.P. = C.P. + Loss	(b)	S.P. + Loss %
	(c) $C.P. = S.P Profit$	(d)	C.P. = S.P. + Profit%
12.	The cost price and selling price of a pen is Rs is	. 100	and Rs. 110 respectively, the profit %
	(a) 8%	(b)	10%
	(c) 12%	(d)	None of these
13.	Simple Interest formula is		
	(a) S.I. = $\frac{P+N+R}{100}$	(b)	$S.I. = \frac{P - N - R}{100}$
	(c) S.I. = $\frac{P+N-R}{100}$	(d)	$S.I. = \frac{P \times N \times R}{100}$
14.	The simple interest of Rs. 5,000 @ 10% for	one y	rear is
	(a) Rs. 50	(b)	Rs. 500
	(c) Rs. 550	(d)	Rs. 450
15.	Compound Interest formula is		
	(a) C.I. = $P \left[1 + \frac{R}{100} \right]^{N} - P$	(b)	$C.I. = P \left[1 + \frac{R}{100} \right]^{N} + P$
	(c) C.I. = $P \left[1 - \frac{R}{100} \right]^{N} - P$	(d)	$C.I. = P \left[1 - \frac{R}{100} \right]^{N} + P$
16.	Compound interest of Rs. 400 at 6% p.a. for	two	years is
	(a) Rs. 48	(b)	Rs. 49.44
	(c) Rs. 53.44	(d)	Rs. 449.44
17.	In a class of 42 students, 6 students are g is	girls,	the ratio of boys and girls in class
	(a) 7:1	(b)	7:6
	(c) 6:73	(d)	7:6 6:1 439
18.	The ratio between prices of two cows costing	Rs.	1,500 and Rs. 1,000 is
	(a) 3:2	(b)	2:3
	(c) 5:2	(d)	5:3
VDC	10006		(0, 11)

19.	If 4:5::x:20, x is				
	(a) None	(b)	1		
	(c) 16	(d)	25		
20.	A man earns Rs. 72 a day, for how many days must he work to earn Rs. 1,512				
	(a) 16 days	(b)	21 days		
	(c) 26 days	(d)	31 days	20×1=20	
	SEC	TION—B			
1.	Find out the L.C.M. of 69, 78, 87.			4	
		OR			
	The sum of two numbers 250. Their di	fference is	50. Find the numbers	s. 4	
2.	Find the values of 64 percent of 150.		1,5	4	
		OR			
	Bombay dyeing allows 7.5% discount worth Rs. 10,320. How much money w		=	k purchases cloth 4	
3.	Raj average of 13 numbers in 13. If the of last six numbers.	average of	first 7 numbers be 7	. Find the average 4	
		OR			
	A purchased a cow for Rs. 12,000 and	sold it for F	Rs. 10,900. Find out I	Profit or Loss. 4	
4.	If Shreyash deposit Rs. 1,00,000 in a saving account for 2 years at the rate of 10% p.a much interest will he get at the end of the 2 years?				
		OR			
	Find out compound interest on Rs. 4,00	00 at 10% p	o.c.p.a for 3 years.	4	
5.	Divided Rs. 8,320 in the ratio 8:5.			4	
		OR			
	If the cost of 32 chairs is Rs. 14,400.	How many	chairs can be bought	for Rs. 30,600 ?	
	SEC	TION—C			
1.	Find out L.C.M. and H.C.F. of 144, 21	6, 288.		8	
		OR			
	The sum of the two numbers is 276. number by 12. Find the numbers.	Greater nun	nber is greater than	thrice the smaller 8	
2.	A milk man has two kinds of mixture of water and the second 10% water. One litres of second. Find the percentage of	dealer mixe	es 90 litres of the first		
	A publisher salls 90 books of Dusiness		os for Ps 6 144 If 41	na list price of the	
	A publisher sells 80 books of Business books be Rs. 96. Calculate the rate of			8 Ist price of the	

3. The average age of 40 students of a class is 16 years 5 students of average age 14.8 years left and 3 students of 24, 17.5 and 19.5 years respectively were admitted. Find the average age of students of the class.

OR

A purchase an article for Rs. 1,050 and sold it for Rs. 1,197. B also purchased similar article for Rs. 960 and sold it for Rs. 1,104. Find who had a better profit percentage.

4. The amount with simple interest of Rs. 4,000 at a certain rate of interest is Rs. 5,000 in 5 years. Find out the rate of interest per annum.

OR

Find out compound interest on Rs. 90,000 at the rate of 3.75% per annum for 3 years.

5. Divide Rs. 7,000 among A, B and C. So that A and B share is 2:3 and B and C share is 4:5.

OR

12 men and 20 women working 10 hours a day. Can finish a piece of work in 35 days. In how many days 12 men and 20 women can do the same work by working 7 hours a day.





