ABC - 401 / XBI - 401 / XE	3S – 401/ MBH – 405 / PBH	1 - 404 / BBA - 406 / BOV -	405 / BCH - 407 / ESE - 401							
Roll No		•	Dec. 2							
End Semester (Even) Examination, June 2024										
Course: BCA / B.Sc (IT) / B.Sc (CS) / B.Sc (H) Maths / B.Sc (H) Physics / BBA / B.Voc in Accounting and Finance / B.Com (H) / BA (H) English										
Subject: Career Skills			Semester - 4 th							
Time: 3:00 Hours		•	MM: 100							
2. Each question carries3. It is compulsory to wr4. Use of calculator is n	ite the SET on the OMR	•								
Q1. What is the unit dig a. 1	it of 357 ⁵⁹ × 59 ³⁵⁷ b. 3	c. 7	d. 5							
Q2. If the unit digit of (1 a. 1	2345 k) ⁷⁶ is 1, then the v b. 3	value of k can be: c. 7	d. All							
Q3. Find the number of a. 20	factors of $2^4 \times 3^4 \times 7^2$ th b. 25	at are even. c. 60	d. 50							
Q4. Find the total numb	per of factors of 2160. b. 40	c. 48	d. 68							
Q5. N on dividing 50, value that N can take? a. 24	75 and 125 leaves a rer	mainder of 2, 3 and 5 re	spectively. What is the largest d. 10							
Q6. Find the HCF of 3/2 a. 1/35 b. 2/15		d. 3/35								
Q7. How many distinct a. 2	values can x assume if b. 3	28357x4 is divisible by 8 c. 4	? d. 5							
a. 1 Q9. A number when divising divided by 3?	b. 2 vided by 15, gives a rem c.2 hree-digit number that w	d. cannot be determine	d. 0 nainder when twice the number							
Q11. A car travels the f the distance with a sp speed of the car for the a. 18 kmph	eed of 20 kmph and th	n distance with a speed of e last one-third distance c. 25 kmph	of 10 kmph, the next one-third of at 60 kmph. Find the average d. 30 kmph							
Q12. A man covers eq a. 40kmph	ual distances at a speed b. 45 kmph	d of 30 kmph and 60 km c. 50 kmph	oh. Find his average speed. d. Data Inadequate							
Q13. A tank, which us time in which the leak a. 30hrs	ually takes 5 hours to b can empty the tank if it b. 27.5hrs	ne filled, takes 6 hours to is filled and the inlet pipe c. 25hrs	o fill because of a leak. Find the is shut. d. 22.5hrs							

a. 900, 720, 600 b. 600, 720, 900 c. 592, 740, 888 d. 888, 740, 592

XBC - 401 / XBI – 401	/ XBS - 401/ MBH -	- 405 / PBH - 404	/ BBA - 406 / BO	V-405/BCH-40	7 / ESE - 401
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700 - 4017 XDI -	401/ 865	- 401/ MBH	- 405 / Pi	BH - 404 / BB	A - 400 / BC	7V - 405 / BCH -	- 40/ / ESE -	401
Q14. Three taps all the taps are also closed. Tap tap A? a. 2 /11	opened sim	nultaneously	v. After 2 tank get	hours tap C s completely	is closed a	ind after further	2 hours tap	Bis
Q15. A and B ca working simulta over, B leaves. I a. 24	neously on	the work s al number o	imultane	ously, but 4	days before	e the work is s completed.	ctively. Both scheduled to	start get
Q16. A is thrice Find the number a. 3	of days in	as B and h which they 4.5	ence tak can com c. 6	es 12 days I plete the wo	ess to com rk while wo d. 6.5	rking together?	compared t	:o B.
Q17. A and B ca the same work i days will the wo a. 5	n 12 days :	and A and C if all three A	working	g together ca	ın finish the	d C working too work in 15 day d. 4	gether can fi /s. In how m	nish lany
Q18. If 4 boys o and 3 boys to fir a. 4.8 days	r 3 men ca nish the wor b.	rk?	a piece o	of work in 10 c. 6	days how r	nany days will i d. None of th		nen
Q19. 20 Men ca work in 50 days a.10	?	ce of work	in 25 day c. 8	ys. How mar	ny men are	needed to com	plete the sa	me
Q20. A is twice days can B alon a.9	as good as e complete b.	the same w	ner they over the vertical ver	can complete	e a piece o	f work in 4 days d. 18	s. In how ma	any
Q21. S is the s respectively. Fin a. 5		of the digits		ives remaind	lers of 3 ar	d 1 when divid	ed by 6 and	1 7 -
Q22. A certain s years will it beco a. 16		s its original		s itself in 4 y	ears at con	npound interest d. 10	. In how ma	ny
Q23. A person p to a customer at a. 10 profit	a discount						5% and solo	it t
Q24. If a: b is 3 a. 16/15		e ratio (7a – 5/13	4b) : (3a c5/13		d16/	15		
Q25. Two friend one of them has covered is 2:3, a. 20	s walked 2	0 meters matance that o	ore than	the other. If	the ratio of	each other. W f the distances d. 100	hen they me that each h	et as
Q26. Divide 222	0 in the rati	o 1/4: 1/5: 1	/6. ·				,	

a. 44%

b. 44.44%

VDC	404 / YEL	ANA I YES	AOAI MDH	ANE I DRH	404 / BBA - 406	BOV -	- 405 / BCH - 4	407 / FSE	- 401
XBL	4111 / XBI -	AUT LABS	- 401/ IVIBH -	- 4U2 / PBH ·	· 4U4 / DDA - 4U0 /	OUV-	- 403 / 6011	70 / LOL	- 70

XBC - 401 / XBI - 401 /	XBS - 401/ MBH - 405 / F	PBH - 404 / BBA - 4	406 / BOV - 405 / BCH - 4	0//656-401
Q27. Six years back, ages will be in the rati	the ratio of the ages of a to 10 : 9. What is the ration b. 8 : 7 c. 9 :	o of their present	s wife was 6 : 5. Six yea ages. d. 18 : 15	ars hence, their
Q28. A starts a busine is divided between A a a. 2800	ess with Rs.3,500 and a and B in the ratio 2 : 3. V b. 2700	fter 5 months, B jo Vhat amount did E c. 1800	oins A. At the end of the 3 invest in the business? d. 9000	year, the profit
Q29. Three partners amonths, 8 months and a. 5 : 4 : 4	shared the profit in a bu f 7 months respectively. b. 20 : 49 : 56 c. 784	What was the rati	io 5:7:8. They had pa io of their investments. d. 19:15:15	
Q30. y varies directly a. 9/32 b. 3 /4		n x = 4, y = 2. Wh d. 128 /9	at is the value of y wher	x = 3/2 ?
		nuch as that earn	by 6.25%, by what perced before the decrease in the decrease i	
Q32. Find 87.5% of 14 a. 143	4 + 37.5% of 72. b. 133	c. 153	d. None of the	se
	0 % of his income on reas a percentage of his eas b. 33.33 %		d. 42.85 %	and saves the
% of all the games he games that he has to p games and yet meet h	has to play in the tour lay, what is the maximun	nament. If he has	n the tournament. His go s already played 15 out es he can afford to lose in	of the total 50
a. 0	b. 1	c. 2	d. 3	
Q35. If the cost price is a. 25 %	s 25 % less than the sell b. 27.27 %	ing price, find the c. 20 %	profit percentage. d. 33.33 %	
	Rs. 423 results in a loss	s of 10 %. What s	should be the selling pric	e to result in a
profit of 10.%? a. Rs. 443	b. Rs. 500	c. Rs. 507.6	d. Rs. 517	·
profit of 12.5%. The dea of 6.66%. If the cost of by the customer.	aler sells to a retailer at a manufacturing the produ	a profit of 10% and uct for the manufa	The wholesaler sells to the distance of the retailer to the custon acturer was Rs. 625, find	omer at a profit
a. 990 b. 1000	c. 900	d. 850		
Q38. By selling 12 articles Find the profit or loss plant a. 22.22%	ercentage.	•	equal to the selling pric	e of 3 articles.
	b. 33.33 %	c. 20%	d. 30%	,
Q39. A person buys 12 of 20%. a. 14			sell in a rupee so that he	e earns a profit
a. 14	b. 8	c. 9	d. 10	
Q40. Articles were boupercentage.	ght at the rate of 6 for F	Rs. 5 and sold at	the rate of 5 for Rs. 6.	Find the profit

c. 45.45%

d. 40%

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Q41. Tap A can fill a tar tank is already full and I a. Filled in 8 minutes c. Filled in 12 minutes	nk in 12 minutes and ano both A & B are opened. th	ther leakage Bone tank will be bone bone bone bone bone bone bone b	minutes	
days. After 5 days, few	I for a camp and made p more members joined b ers joined the group in b	ecause of which	the food	onsumed by 150 people in 25 d finished in a total time of 20
a. 50	b. 25	c. 75	ρ.	d. None of These
Q43. If 8 Men can do a time taken by 8 Men an a. 5 days	work in 12 days and 12 days and 12 days and 12 days b. 4.8 days	Women can do ork together? c. 2.4 days	the same	e work in 8 days, find the total
Q44. If 6 Men and 14 w	omen can do a iob in 12	•	ınv davs	can 9 men and 21 Women do
the same job? a. 10 days		c. 15 days	,, .	d. 9 days
at 12 hours do a work w	for 9 hours can finish a which is 1.5 times as great	ork in 32 days, i at as the first one	n how m	any days can 27 Men working
a. 15 days	b. 24 days	c. 27 days		d. 20 days
that A and B work on the	work in 12 days, B in 16 le first day, B and C work l so on. In how many day	c on the 2 nd day, s will the work g _b. 9 days	A and C et finishe	
•			d 17/27 d	• .:
Q47. A, B and C can d 60,000. What will be the a. 6000	lo a work in 12,15 and 2 e difference in the shares b. 10000	0 days respective of A and C? c. 9000	vely. The d. 5000	y undertook a project for Rs.
Q48. The largest 4 digit a. 9944	number exactly divisible b. 9768	by 88 is: c. 9988	d. 8888	
Q49. If the number 481 will be:	*673 is completely divisil	ble by 9, then th	e smalles	st whole number in place of *
a. 2	b. 5	c. 6	š ' :'	d. 7
Q50. How many natura a. 8	I numbers are there betw b. 11	reen 23 and 100 c. 12		e exactly divisible by 6? d. 13
Q51. At its usual speed to 35 kmph, it takes 15 a. 50 km	of 40 kmph, the bus cove more minutes than sched b. 60 km	ers its journey on duled time. Find c. 70 km	schedule the dista	e. But when its speed reduces nce of the journey. d. 75 km
the escape at 3:30 pm a	om a prison at 2 pm and t and start the chase then a	travels away at a at a speed of 40 k	speed c kmph. At	of 30 kmph. The police realize what time will the police catch
the thief? a. 8:00 pm	b. 8:30 pm	c. 7:30 pm		d. 9:00 pm
Q53. A train running at a. 200 m	72 kmph crosses a telepl b. 140 m	hone pole in 7 se c. 400 m	ec. What	is the length of the train? d. None of these
		n and 600 m in 6	second	s and 8 seconds respectively.
What is the length of th a. 200 m	e train? b. 300 m	c. 500 m	;	d. 100 m

		/ XBS - 401/ MBH -		mm	10011		- /	404
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X POL - 4111	/ XPI = 401 /	/ ABS = 40 // WBB :	- 4UN / PDM + 4	U4 / DDA - 4UU	/ DUV - 41	13 / BUIL - 4V	, ,	4 U I

Q55. Two trains, each direction and 10 secon the faster train. a. 30 kmph	ds to cross each oth	e 60 seconds to cr er when traveling i c. 42 kmph	oss each other if traveling n opposite direction. Find d. 50 kmph	in the same the speed o
Q56. A train traveling a in 18 seconds. What is a. 100 b. 125			nds and a man standing or	n the platform
Q57. Two trains are trains are trains are trains an sitting in the slower a. 80 mts			and 30 kmph. The faster tra the faster train. d. 125 mts	ain crosses a
			e of flow of the river is 4 oat cover during the sam	
a. 40 km	b. 50 km	c. 60 km	. d. 80 km	
			e river for 9 km. It took a tot ed of the boat in still water d. 2.5 kmph	
Q60. A boat takes a tot If speed of the boat is 3 a. 1 hr b. 2 hr			and to return back to the simoving downstream?	tarting point.
Q61. The income of A a of his income, what is to a. 24:25			diture are in the ratio 3:4. If d. None of these	A saves 2/3
			more students in the class, of students in the class? d. 145	with 7 boys
			yet failed by 12 marks. Ha marks. Find the maximum r	
a. 240	b. 300	c. 250	d. None of these	•
			ale, the scale shows a rea	ding of 950
gms. Find the percentage a. 11.11%	ge error in the measu b. 5.55 %	rement. c. 5 %	d. 5.26 %	
Q65. To pass an exam than the passing marks a. 44 %			n 40 % marks. Raj scores j. d. 60 %	10 % more
Q66. A milk man mixes of the mixture?	1.0		ater now accounts for what p	percentage
a. 16.66 %	b. 20 %	. c. 25 %	d. 22.22 %	
Q67. If the length of a re decrease to maintain th a. 8.33% b. 9.09	e area of the rectangle		ent should the breadth of the	e rectangle
Q68. Inspite of an incre 10%. Find the percentage a. 10.2%		itity consumed.	o let his expenditures increadd. 8.33%	ase by just

XBC - 401 / XBI – 401 / XBS – 401/ MBH – 405 / PBH - 404 / BBA – 406 / BOV – 405 / BCH – 407 / ES	-405 / PRH - 404 / RRA - 406 / BOV - 405 / BCH - 407 / ESF - /	3C - 401 / XRI - 401 / XRS - 401/ MRH - 4
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r	Q69. While preparing the mindedly decreased the compared to what should la. 25% b. 22.22%	prices by 12.5 have been the	5%. Find th	easing the e percen	prices by 1 tage differendered d. 28.56	nce in the price o	er absent n the tag
1	Q70. Since the prices of mangoes less in his budge a. Rs. 1.5	mangoes incr et of Rs 864. W . Rs. 2.5	/hat is the ir	6.66%, th ncreased Rs. 3	price of each	er was able to pur n mangoes? d. Rs. 3.2	rchase 18
	Q71. If a : b is 3 : 4 and b a. 15:20:24 b.	: c is 5 : 6, find . 15:18:24		: b : c. 5:4:8	d. None	of these	
i	Q72. The income of A, B, income of A is 40% increations incomes. a. 7:8:9 b. 6:7:9	and C are in t ased, 20% incr c. 12:40	reased for E	3 and 20%	incomes be decreased	e changed such that I for C. Find the no	at the new ew ratio of
	Q73. A man has 10p, 25p Find the number of 25p co a. 140 b	and 50p coins oins with? . 135		of 5:2:1 i		If the total money	is Rs.120.
	Q74. The ratio of monthly saves Rs.800. Then the e a.1,000 b. 2,400	expenses of B is	and B is 7:6 s: c. 1,800	3 and the		r expenditure is 11	:9. If each
	Q75. The speeds of P, Q them for the same distant a. 5:3:2 b. 3:2:1	and R are in th	e ratio of 6: c. 1:2:4	4:12, wha		of time taken by e	ach one of
	Q76. The price of a bike will be the effect on the to a. 12% Loss	is decreased botal revenue of o. 12% Profit	the shop?			sale increased by	40%. What
			c.	25	Before 5 yea	rs the ratio of thei d. 30	r ages was
	Q78. The length and bre rectangle exceeds the ar a. 50% b. 65%		al rectangle	reased by	/ 20% and 3	0%. The area of th	ne resulting
	Q79. In an examination, 60% more than D. If A go a. 160					40% more than C	and C gets
	Q80. Find the digit at the a. 2	e unit's place 43 b. 4		8	•	d. 6	
	Q81. A shop-keeper sells at a loss of 10%, find the a. Rs 19.58 loss		ofit or loss.		e sold one a oss d. Rs 4	•	nd the other
	Q82. A 25% discount off a. Rs 99	er results into a b. Rs 100		Rs. 37. Fii . Rs 101	nd the selling	g price of the articled. Rs 111	e.
	Q83. A scheme of 1 soal is the effective discount a. 33.33%	p free with ever that the schem b. 37.5%	e offers?	ourchased . 25%	is launched d. 20%	,	sales. What

SET - B						Page 7 of 8
XBC - 401 / XBI -	- 401 / XBS – 401	/ MBH – 405 / PB	H - 404 / B	BA – 406 / BO	V - 405 / BCH - 407	/ / ESE 401
		up percentage i	if a trader	wishes to ma	ake a profit of 10%	6 inspite of a
discount of 10% a. 20%	b. 18.18%	c. 22.22	2%	d. 27.2	27%	
Q85. A shop-kee of 20%. Find his a. 8%	eper, unaware the actual profit pe b. 10%	nat his balance r rcentage. c. 11.11%		gms for 1000 d. 12%	gms, sells goods	at a mark-up
mixture. If he se	n sells milk after ills at a mark-up b. 32%	mixing water to rate of 10%, find c. 33.33%	d his actua	i a extent that al profit percer d. 37.5%	water accounts fontage.	or 20% of the
	in rate of simple incipal amount b		es?		mes in 15 years.	In how many
a. 45 years	b. 30 ye	ears	c. 60 yea	ars	d. 75 years	
what was its pop	ation of a city gr pulation in 2004′ b. 13,60,000	?	5% per a d. 16,80,		006 its population	is 18,52,200,
Q89. Which of the horizon?	he following two	schemes is mo	re benefic	cial to a depos	itor with a two yea	ar investment
(i) (ii)	Rate of interest Rate of interest	6% compounde 5% compounde				
a. (i)	b. (ii)	c. Both are san	ne ·	d. Depends or	n principal amount	
	ound interest ea	arned in the 3rd	and 4th y	ear is Rs. 450	o and Rs. 500. Fir	nd the rate of
interest. a. 9.09%	b. 10%	c. 11.1	1%	d. 12.	5%	
Q91. If the rate year and that ea	of compound in arned in the 25th	terest is 12.5%, year.	find the r	atio of compo	und interest earne	ed in the 24th
a. 8:9	b. 9:8	c. 24 : 25	a a (d. 192 : 225		
Q92. The different annum for 2 years. Rs 6,310	ars is Rs. 631. F	ne compound intined the sum. 3,100 c. Rs 6	- :		st on a certain sur 00	n at 10% per
Q93. I kept Rs. if I had kept the a. Rs 23.	20,000 at 5% ra same amount fo b. Rs 5	or same years a	rest for two t same rat c. Rs 20	te but at comp	he difference in in ound interest. d. Rs 50	terest earned
	strain of coronav	irus triples itself	in every 1	5 minutes. Af	ter how much time	will it be 729
times? a. 75 mins	b. 120	mins ·	c. 150 m	nins	d. 90 mins	
	ence between S rincipal amount. b. 3,00		ears at 20 c. 20,00		compounded hali	
	effective annual r		nt per ann			

Q97. I bought an Astra two years back. Its value depreciated by 9% every year. If at present its value is Rs. 9,10,910, at what cost had I bought it?
a. 10,91,910 b. 10,9,190 c. 10,00,000 d. 11,00,000

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Q98. I cover a total of 300 km in 8 hours, partly at a speed of 30 kmph and partly at a speed of 50 kmph. For what time was I traveling at a speed of 30 kmph?

a. 2 hrs

b. 3 hrs

c. 4 hrs

Q99. Find the ratio of the time taken to cover two distances in the ratio 4:5 at speeds in the ratio 4:3 respectively.

a. 1:1

b. 3:5

c. 5:3

d. 4:3

Q100. Over a certain distance, if the speed had been 10% more, by how much percent less would the time taken be?

a. 11%

b. 10%

c. 9.09%

d. 8.88%