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Pon	ietra	tion	No:
Neg	12015	LIOI	No.:_

## Course Code:PEA305 Course Title: ANALYTICAL SKILLS-I

23242PEA31489 Paper Code:A

Max Marks: 80

Time Allowed: 02:00hrs.

a]10

Read the following instructions carefully before attempting the question paper.

- 1. Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and ensure that both are the same.
- 2. This question paper contains 80 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.
- 4. Do not write or mark anything on the question paper and/or on rough sheet(s) which could be helpful to any student in copying,
- except your registration number on the designated space

5. Submit the question paper	mber on the designated space er and the rough sheet(s) along with th is not allowed.		AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	
Q(1) Find the sum of square	res of the greatest value and the small	est value of K in the n	umber so that the number 45082K i	•
divisible by 3. (a) 68	(b) 64	(c) 100	(d) 50	.14
Q(2) 37.5% of 800 - 6.25% (a) 200	6 of 1600 =7 (b) 350	(c) 400	(d) 250	.14
Q(3) What will be the higher (a) 13	est power of 15 in 2001 ? (b) 15	(c) 48	(d) 49	,L5
Q(4) Ben exercises every	4 days and Isabel every 6 days. Ben ar	nd Isabel both exercise	ed today. How many days will it be t	intil they
(a) 11	(b) 12	(c) 13	(d) None	,L4
Q(5) What is that least num (a) 6	nber that should be added to 478 so the (b) 12	the number obtained (c) 2	d becomes exactly divisible by 5,6, a (d) 52	.L4
Q(6) Find the least number	r which when divided by 9, 24 and 40, 40, will leave in each case a remainder	will leave in each case		
(a) 360	(b) 355	(c) 365	(d) 185	,L4
Q(7) The average of 5 pos	sitive integers is 65.8. If the average of t	first two integers is 60	and the average of fourth and fifth it	ntegers
is 89.5. Then, find the third (a) 20	integer. (b) 30	(c) 40	(d) 50	,1.5
Q(8) Find number of trailin (a) 25	g zeros in 50! (b) 22	(c) 18	(d) 12	,L4
(a) 2	x468y08 is divisible by 24. Then what is (b) 4	(c) .		,14
Q(10) The numbers 2, 4, 6 (a) 10	8, 898, 100 are multiplied together. (b) 12	The number of zeros (c) 11	at the end of the product must be: (d) 13	.1.4
O(11) Late he least 2-digit	number which leaves 1 as remainder	when divided by 6 & 7	7 & y be least 2- digit number which	h leaves
remainder 3 & 7 respectivel (a) 54/7	(b) 48/17	/(y-x)? (c) 42/5	(d) 58/15	,L5
Q(12) Find the total number (a) 18	er of factors of 2400 (b) 24	(c) 36	(d) 40	,L4
Q(13) What is the HCF of 4 (a) 1/200	4/5,6/8,8/25? (b) 1/100	(c) 1/5	(d) 1/50	,14
	the ratio of 3:4:5 and their LCM is 42	00. Their HCF is ? (c) 20	(d) None of these	
(a) 70	(0) 00			.14
(a) 64	a number by 3/5 instead of 5/3, What (b) 62			,1.5
Q(16) A's salary is 40% of E	3's salary which is 25% of C's salary. (b) 20	What percentage of ( (c) 30	C's salary is A's salary ? (d) 40	
(a) 10		rks more than the mir	nimum, passing percentage of 64	L5 What is
the percentage (approx.) or i	marks obtained by Manish if he scor (b) 40%	es 907 marks less th (c) 45%	an Sujit? (d) 36%	
(a) 35 %		What percentage of		J,
Q(18) A's salary is 40% of B	i's salary which is 25% of C's salary. b] 20	c] 30	d) 40	

	num m	Registration No	).:		. same
	O(19) The percentage profit e article for Rs. 1280. At what pr	dined by colling so		rtage loss incurred by selling th	a same
	(a) 2000	(b) 2050	d to make 30% profit? (c) 2100	(d) 2080	
	Occasi Manager will Be 2000	V	ATTA TO COLUMN	A 14 位在	,L5
	compounded semi-annually?	ou amount to (approximately	) in 2 years at the rate of 15% po	r annum, the interest some	
	(a) 27809	(b) 27609	(c) 26709	(d) 28709	,15
	Q(21) What percent of 7.2 kg i	is 19 ams 2			,15
	(a) .25	(b) .50	(c) .20	(d) .30	2.4
			T ( TO (	and to Be 1020 after a further	L5
	Q(22) Murali deposited a certa period of 5 years. The sum is	in sum of money at S.I, whi	ch amounts to Rs. 720 after 2 year	arm and to ris. Tower	
	a) Rs.500	b) Rs.600	c] Rs. 1200	d] Rs.1300	,14
	O(22) If the leading is increase	of her 170/ then the cold in	me is decreased by 3%. Then fin	d the rate of income tax.	
	(a) 15%	(b) 20%	(c) 24%	(d) 29%	,L5
		ov	s 250. Find the cost price of the t	ook.	,
	a) Rs. 160	b) Rs.170	c] Rs.180	dJ Rs.200	,L5
	0.75		and 37% respectively. How much	percent is the second number le	
	than the first?	an a third number by 50 % a			
	(a) 7	(b) 10	(c) 4	(d) 3	,L4
	Q(26) If A = x% of y and B = y9	of x, then which of the follo	wing is true?		
	(a) A is smaller than B	14	(b) A is greater than B (d) A is Equal to B.		
	(c) Relationship between A and	B cannot be determined	The state of the s		,L5
	Q(27) If the rate of interest be 4	% per annum for first year,	5% per annum for second year a	nd 6% per annum for third year,	then
	the compound interest of 10,000	(b) 1625	(c) 1575.20	(d) 2000	
	(a) 1600	4 15 1	The state of the s	de it to pootber serves at 0 1/4%	,L4
	Q(28) A person borrows Rs. 50	00 for 2 years at 4% p.a. sin	ple interest. He immediately len	ds it to another person ato 1747s	per
	annum for 2 years. Find his gain (a) 112.50 rs	(b) 125 rs	(c) 150 rs	(d) 167.5 rs	
			-	-	,L5
	Q(29) ABD, DGK, HMS, MTB, S	(b) ZKW	(c) XKW	(d) ZAB	
	(a) ZKU	Carlot Control Control	70 40 00 2 440 50 420 70		,L5
	Q(30) Which number would repl	(b) 30	(c) 89	(d) None	
	(a) 20		1414-0100	and in collect end and in collect to	,L5
	Q(31) If water is called air, air is is called tree and tree is called to	called green, green is called	brown, brown is called steel, st	eer is called red, red is called to	
	is called tree and tree is called it (a) Red	(b) Water	(c) Road	(d) Rain	
		10.05//	to TICEO unitten in that code	,	,L5
	O(32) In a certain code, MONKE	(b) QDFHS	(c) DQHFS	(d) FDQSH	
	(a) QDSHF	Ç, 45	A CONTRACTOR OF THE CONTRACTOR		,L5
	Q(33) C4X, F9U, I16R, ?	(b) L25O	(c) L27P	(d) None of these	
	(a) L25P			• • • • • • • • • • • • • • • • • • • •	,L5
	Q(34) In a certain language KINI	DLE is coded as ELDNIK, ho	w can CRITIC be coded in that	code? (d) CITIRC	
	(a) EXOCRI	(b) CXOICR	(c) COXICR	(a) CITING	,L5
	Q(35) Find the missing term- F, I	., Q, U, X, ?	**	* Constant	
	(a) Y	(b) Z	(c) A	(d) B	.L5
	Q(35) Find the sum of the infinite	series 4 + 2 + 1 + 1/2 + 1/4	+ 1/8		
	(a) 8	(b) 7	(c) 5	(d) 6	,1.5
	Q(37) In a certain code 'il be pee	means 'mass are block to	La' manne 'red flowers' and	'nee nut hee' means 'flowers a	
	Q(37) In a certain code in to pyc	re red flowers' written in that	code?		
	(a) sik pee hee be	(b) il sik nut hee	(c) pee sik nut hee	(d) Cannot be determined	,L5
	Q(38) Find the missing number in	the following series a	40.741.02		,
	Q(38) Find the massing market in	(b) 41	(c) 56	(d) 89	
			A. Contraction	100	,L5
	Q(39) Find the first term of an AP	whose 8th and 12th terms a (b) 4		40.2	
	(a) 5		(c) 3	(d) 2	,L4
	Q(40) What will come next 2807,1	400,697,346,171		ANNOANA CANADANA	,12
1	(a) 80	(b) 66	(c) 88	(d) 84	,
		1		Page 2 of 4	

		Registration N	0.:		
	Q(41) Directions : Read th	ne following information careful	lly and answer the questions	given below	
	in a certain code sordada	J.		given below.	
	filter water found everywh	pere" is coded as "bho man juk	lop-		
	found lost floms everywhe	ere" is coded as " gan bhu pot	iuk.		
	apply filter search terms	is coded as " vax der man out"			
	What is the code for flost	h" is coded as "but juk der lop"			
	(a) juk gan				
	(a) Juk gan	(b) nut gan	(c) gan lop	(d) lop bhu	
	O(42) Find the next numb	one in the state of the			
	(a) 163	ber in the given sequence? 11, (b) 170		A STATE OF THE STA	
	14,	(0) 170	(c) 190	(d) 200	
	Q(43)Two vessels A and I	B contain milk and water mixed	in the ratio 8-5 and 5-2 reces	disale The calls to a Link of	
	be mixed to get a new mix	xture containing 69.3 % milk,is	The fallo 0.5 and 5.2 respec	arvery. The ratio in which the	nese two mixture
	(a) 2 · 7	13		The state of the s	
	(4) 2	(b) 3:5	(c) 5:2	(d) 5:7	122
	Q(44) A milkman mixed s	some water with milk to gain 25'	% by selling the mixture at the	coct sees. The sets of set	CO4,1
			self seming the mixture at the	cost price. The ratio of wat	er and mak is
	(a) 5 : 4	(b) 4:5	(c) 1:5	(d) 1:4	
	0(45) P and O	-V			CO4.L
	equal quantities of the har	alloys of aluminum and brass pro	e- pared by mixing metals in pr	roportions 7:2 and 7:11, res	spectively. If
	(a) 5:9	alloys are melted to form a thir	d alloy it, the proportion of alu	minum and brass in R will !	be:
		(0) 0.1	(c) 7:5	(d) 9:5	
	Q(46) 20 litres of a mixtur	re contains milk and water in the	ratio 3:1 Then the amount of	f mills to be added to the	CO4,L4
	have milk and water in rati	and the second s	the of the man the amount of	mink to be added to the mi	exture so as to
	(a) 7 litres	(b) 4 litres	(c) 5 litres	(d) 6 litres	
	Q(47) A milk vendor has 3	cans of milk. The feet		And the state of t	CO4,L4
	much milk should he mix fr	2 cans of milk. The first contains	25% water and the rest milk. T	he second contains 50% w	
	(a) 4 litres, 8 litres	rom each of the containers so a (b) 6 litres, 6 litres	(c) 5 litres, 7 litres	at the ratio of water to milk	is 3:5 ?
				(d) 7 litres, 5 litres	~~
	Q(45) What number must	be added in each term of the fr	action 7/31 so that it may become	ne 5: 172	CO4,L2
	(a) 9	(b) 10	(c) 11	(d) 3	
	O(49) A can contains a mi	when of the Best to A and D :			CO4.L1
	with B, the ratio of A and B	ixture of two liquids A and B in to becomes 7: 9. How many litre	ne ratio 7 : 5. When 9 litres of m	ixture are drawn off and the	can is filled
	(a) 10	(b) 20	(c) 21	(d) 25	
			18.5		CO4,L5
	Q(50) The students in thre	e batches at Mindworkzz are in	the ratio 2:3:5. If 20 students a	re increased in each batch,	the ratio
	(a) 10	number of students in the three	batches before the increases i	vere	
	(a) 10	(b) 90	(c) 100	(d) 150	
	Q(51) One quality of wheat	t at Rs. 9.30 per kg is mixed wit	h another quality at a certain ra	le in the ratio 8 - 7. Habe m	CO4,L4
	formed be worth Rs.10 per	kg, what is the rate per kg of the	e second quality of wheat ?	to in the rado 6 . 7. Il the III	Millie so
	(a) Rs. 10.30	(b) Rs. 10.60	(c) Rs. 10.80	(d) Rs. 11	
			4		CO4,L5
	O(52) 8 litres are drawn fro	m a cask full of wine and is the	n filled with water. This operation	in is performed three more	times. The
	(a) 18 litres	now left in cask to that of the wa (b) 24 litres	ater is 16:65. How much wine		?
	(a) to nues	(b) 24 mres	(c) 32 litres	(d) 42 litres	
	Q(53) Two vessels A and B	contain spirit and water mixed	in the ratio 5: 2 and 7 - 6 respe	activaly Find the ratio is us	CO4,L4
	mixtures be mixed to obtain	a new mixture in vessel C conti	aining spirit and water in the ra	tio 8 · 5 ?	iich these
	(a) 4:3	(b) 3:4	(c) 5:6	(d) 7:9	
					CO4,L2
	Q(54) Tea worth Rs.126 per	kg and Rs. 135 per kg are mix	ed with a third variety in the ra	tio 1:1:2. If the mixture is	worth Rs. 153
	per kg, the price of the third v	variety per kg will be:	(c) Rs. 175.50		
	(a) Rs. 169.50	(b) Rs. 170	(c) Ns. 175.50	(d) Rs. 180	
	O(65) to a mixture of 60 litre	s, the ratio of milk and water is	2:3. How much water must be	added to this miss	CO4,L5
	milk and water becomes 1.27	?		doded to this mixture so th	nat the ratio of
	(a) 10 litres	(b) 12 litres	(c) 15 litres	(d) 20 litres	
				THE PART OF THE PA	CO4,L2
	Q(56) A container contains 4	40 litres of milk. From this conta	iner 4 littes of milk was taken o	out and replaced by water.	This process
	Mas ichesien intring mas and	es. How much milk is now conta (b) 27.36 litres	(c) 28 litres		rine process
	(a) 26.34 litres	***		(d) 29.16 litres	
1	O(57) In a group of 6 boys ar	nd 4 girls, four children are to bere?	e selected. In how many day		CO4,L5
1	at least one boy should be the	ere?	many differe	ent ways can they be sele	cted such that
-	a) 205	b) 194	c) 209		
				d) 159	
1	Q(58) A basket contains 5 rec	d 4 blue 3 green marbles. If the	ee marbles picked up random	What is the and	,L5
1	green or all are red?	(b) 7/20	(6) 200	that is the probability th	at either all are
1	(a) 1/20	(0) 1/20	(c) 3/20	(d) 9/20	
				(-)	1.2

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,L4

Registration No.: Q(59) When two fair dice are rolled together, what is the probability that they both show even numbers? L3 (b) 2/3 (c) 3/4 (d) 1/4 (a) 1/2 Q(60). How many 5-digit numbers are possible, criteria being all 5 digits are odd? (b) 3125 (c) 125 .1.4 (d) 120 (a) 625 Q(61) A card is drawn from a pack of 52 cards. What is the probability that card is a Queen of red color? (b) 1/5 (c) 1/26 .1.5 (d) None (a) 1/4 Q(62)A 4- digit number is formed by the digits 0, 1, 2, 5 and 8 without repetition. Find the probability that the number is divisible by 5. (c) 3/5 (d) 4/5 (b) 2/5 (a) 1/5 Q(63) The probability of getting at least one tail in 5 throws of a coin is? d) None of these c] 1/5 6 31/32 8] 1/32 Q(64) In how many ways can 8 Indians, 4 Pakistanis and 6 Dutch be seated in a row so that all persons of the same nationality sit together? (d) 3! 8! 4! B! ,14 (a) 151 (b) 8! 4! 6! (c) 31 O(65) In how many ways can a group of 4 LADIES and 2 GENTLEMEN be made out of a total of 7 LADIES and 3 GENTLEMEN? d) 64 n) 135 b) 63 c) 105 Q(65) Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even? (n) 3/4(d) none (b) 2/3 L5 (c) 4/5 Q(67) In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women? (a) 11760 (b) 8550 1.5 (d) None (c) 15660 Q(68) In a simultaneous toss of 3 coins find the probability of Exactly 1 Tail? (a) 1/3 (b) 2/3 (c) 3/8 (d) 1/2 Q(69) How many ways two teachers and three students sit around a circular table? (a) 24 (b) 65(c) 45 (d) None L5 Q(70) Find the probability that in a randomarrangement of the letter of words in the word 'PROBABILITY' the two I's cornetogether (a) 2/11 (b) 1/11 (c) 3/11 (d) 4/11 .L4 Q(71) The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat? (a) 33(b) 38(c) 23 (d) 28 .L5 Q(72) One evening before sunset Rekha and Hema were talking to each other face to face. If Hema's shadow was exactly to the right of Hema, which direction was Rekha facing? (a) South (b) North (c) East (d) Data inadequate Q(73) Santosh goes first 7 km north then turns left and move 10 km, again he turns left and moves 7 km, how far is he from the starting point? (a) 7 km (b) 10 km (c) 17 km (d) 24 km Q(74) One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing? (a) East (b) West (c) North (d) South .L5 Q(75) Gaurav walks 20 metres towards North. He then turns left and walks 40 metres. He again turns left and walks 20 metres. Further, he moves 20 metres after turning to the right. How far is he from his original position? (a) 50 m (b) 60 m (c) 70 m (d) 80 m L2 Q(76) Pointing to a girl in the photograph, Umesh said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Umesh? (a) Mother (b) Sister (c) Niece (d) Grandmother L2 Q(77) Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point? (a) 65km (b) 70 km (c) 75 km (d) 80 km .L5 Q(78) Z is the father of X and Y is the brother of X. What is Y to Z? (a) Daughter (b) Brother (c) Sister (d) Son .12 Q(79) T is the son of Q. Q is the daughter of Z, Z is the Husband of W and W is the mother of only son X. What is X to T? (a) Uncle (b) Father (c) Son (d) Grandfather Q(80) A is father of C and D is son of B. E is brother of A. If C is sister of D, how is B related to E? (a) Daughter (b) Brother (c) Husband (d) Sister-in-law