Registration No.:__

Course Code:PEA305 Course Title: ANALYTICAL SKILLS-I

22232PEA29362 Paper code :A

Max Marks: 80

Time Allowed: 02:00hrs.

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
- 2. This question paper contains 80 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.
- 3. Attempt all the questions in serial order.
- 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 and the rough sheet(s) along with the OMR sheet to the invigilator before leaving the examination hall.

0	. use of calculators not allowed.				
_)/1\ Find the our of our fort				
0	2(1) . Find the sum of even fact a) 720	ors of 240? (b) 540			
•		(0) 540	(c) 360	(d) None of these	00412
(Q(2) Find 48 x 92 x 67 =?				CO1,L3
((a) 295872	(b) 299872	(c) 229872	(d) 212872	
4	O(3) Find the remainder the	N - 101 - 111		(-)	CO1,L3
1000	Q(3) Find the remainder when 2 (a) 5	(b) 1	***	AND ASSESSED.	
			(c) 2	(d) None	CO1,L3
	Q(4) Find the remainder when	14 X 16 X 20 is divided by 7			COTLS
	(a) 2	(b) 0	(c) 1	(d) None	
	Q(5) Evaluate: 2 + 44 + (22 + 2	22) w 2			CO1,L3
	(a) 1	(b) 4	(c) 9	(d) Name	
			1000000	(d) None	CO1,L3
	Q(6) What least number must	be added to 1056, so that the	sum is completely divisible	by 23 ?	001,23
	(a) 2	(b) 3	(c) 4	(d) 5	
	Q(7) Find the number of Facto	ors of 28			CO1,L3
	(a) 6	(b) 1	(c) 3	(d) None	
	O/R) lather in the sum of the		1.5	100000000000000000000000000000000000000	CO1,L3
	(a) 42	consecutive even numbers, the	difference of whose square		
			(c) 47	(d) 45	CO1,L3
	Q(9) The sum of the digits of	a two-digit number is 15 and th	e difference between the di	gits is 3. What is the two-digi	t number?
	(a) 96	(b) 69	(c) 57	(d) can't say	
	Q(10) Find the average of fire	st 89 Whole numbers			CO1,L3
	(a) 82	(b) 44	(c) 46	(d) None	
	Otto The difference between	a a five dielit		100. 40.00	CO1,L3
	Q(11) The difference between the difference between the two	o digits of that number and the nu	imber obtained by intercha	nging the positions of its digi	ts is 36. What is
	(a) 4	(b) 3	(c) 6	(d) 7	
	35,077		1.50.4/350/		CO1.L3
	Q(12) A pupil's marks were w	rongly entered as 83 instead o	f 63. Due to that the average	ge marks for the class got inc	creased by half.
	The number of pupils in the c	(b) 37	(c) 39		
	(a) 40		1950	(d) 38	
	Q(13) A two-digit number is s	such that the product of the digi	ts is 8. When 18 is added t	o the number, then the digits	CO1,L3
	The number is.			and the digital	s are reversed.
	(a) 24	(b) 67	(c) 68	(d) 25	
	Q(14) If average of 25 perso	ns is 50. Then if equally distribu	uted each person SHOULD) and	CO1,L3
	(a) 25	(b) 50	(c) 1250	5 (00)	
				(d) 25x50	00113
	Q(15) In a certain school,20%	of students are below 8 years	of age. The number of str	idente abour o	CO1,L3
	number of students of 8 year	of age which is 48. What is the	total number of students i	above 8 years of age	is - of the
	(a) 100	(b) 110	(c) 120		
			unt ▼ (Scharts)	(d) 130	CO2,L5
	Q(16) Find 14.28% of 777	(b) 222	43.00		002,23
	(a) 111		(c) 132	(d) None	
	The compound interes	t on a certain sum for 2 years	at 10% per annum is Da e		CO6,L4
	Q(17) The compound interest double the time at half the ra	le percent per annum is:		25. The simple interest on t	he same sum for
	(a) 400	(D) 500	(c) 450	40.000	
	town many months	will Rs.8000 vield Rs. 2648 as	compound to	(d) 600	CO2,L5
	Q(18) In how many months	(b) 24	(c) 12	per annum compounded se	emi-annually?
	(a) 18		1912	(d) 30	CO2,L5

	Registration No.:			
(a) 14 years	mple interest doubles in 7 years, (b) 21 years	(c) 90 years	(d) None	CO6.L4
Q(20) The percentage profit e	armed by selling an article for Re-	make 25% prom	ntage loss incurred by	selling the same
(a) 1800	(b) 2000	(c) 2200	(d) 2400	CO3 L2
		and co% nassed in Mathe	matics 25% failed in b	oth and 240
Q(21) In an examination, 75%	of candidates passed in English	and do to passes in the		personal of the art
(a) 492	the total number of candidates (b) 300	(c) 500	(d) 400	CO2,L5
Q(22) What percentage of mu	mbers from 1 to 70 have 1 or 9 in (b) 20	n the unit's digit? (c) 29	(d) 39	CO2 L5
No. 201	by 50% but its consumption is de		increase or decrease	percentage in the
Q(23) Water tax is increased	by 50% but its consumption is de	Cleased by 10 m		
expenditure of the money # (a) 7 %increase	(b) 35% increase	(c) 7 % decrease	(d) None	CO2,L5
Q(24) A person incurs a loss	of 5% be selling a watch for Rs.	1140. At what price should th	(d) 1260	ii 375 proiit.
(a) 1100	(b) 1160	(c) 1200	(0) 1200	CO3,L2
	s for 1008. He sold one at a loss	of 20% and other at a profit	of 44%. If each goal w	
Q(25) A man bought two goal	ne goat which was sold at loss, w	ns and other at a prom		
(a) 648	(b) 360	(c) 568	(d) 440	00016
A STATE OF THE STA			u Japan Eine	CO2,L5
O(26) The simple interest on a (a) 32000	certain sum at the rate of 16.25 (b) 36000	% for 4 years is Rs.12600 le (c) 40000	(d) 48000	CO2,L5
0/27) In an election between t	wo candidates, one got 55% of t	he total valid votes, 20% of	the votes were invalid.	
number of votes was 7500, the	number of valid votes that the o	ther candidate got, was:		
(a) 2700	(b) 3678	(c) 3600	(d) 4500	
3/20) A man annuda 250/ of hi				CO2,L5
percent of his income he is left in	s income on food, 25% on childrenith 2	en's education and 80% of t	he remaining on house	e rent. What
8) 6%	(b) 7%	c) 8%	(d) 12%	
		, , , ,	(0) 1270	CO3 L2
(29) AB, DEF, HIJK ?, STUV		200000000000000000000000000000000000000		-
) LMNOP	(b) LMNOR	(c) MNOPQ	(d) QRSTU	
(30) what should come in blan	nk space? ELFA, GLHA, ILJA,	MLNA		.L1
I) LLIMA	(b) KLLA	(c) KLMA	(d) OLPA	
			(4) 02	CO6,L4
(31) 1, 1, 6, 6, 11, 11, 16, 7, 1				
a) 13, 11	(b) 16, 21	(c) 17, 21	(d) 21, 16	,L1
(32) If PEAR=2 and FROM	A = 1 and HOME = 2 then DEAS	R =		
3) 2	(b) 1	(c) 3	(d) None	
				CO3,L2
range, what would be the color	ue is called red, red is called yello	ow, yellow is called green, gr	een is called violet, and	violet is called
VIOLET	(b) yellow	(c) GREEN	(d) None	
			(d) None	CO3,L2
	ARE is coded as 24 How can F			
1) 22	(b) 29	(c) 31	(d) None	CO3.L2
(35) If PAR is coded as *^%	LAP is coded as \$^*YOU is con	ded as @&# How can I PU b</td><td>e written in that code?</td><td></td></tr><tr><td>5'#</td><td>(b) \$**</td><td>(c) \$##</td><td>(d) None</td><td></td></tr><tr><td></td><td>.,.</td><td></td><td></td><td>CO3,L2</td></tr><tr><td></td><td>X by 9, M by 5, Z by 8, L by 2, 1</td><td>(c) 812715</td><td>(d) 821795</td><td></td></tr><tr><td>a) 812651</td><td>(b) 821591</td><td>(C) 612713</td><td>(4) 021133</td><td>CO3,L2</td></tr><tr><td>2(37) 22 21 23 22 24 23</td><td>What number should come next?</td><td>)</td><td></td><td></td></tr><tr><td>a) 28</td><td>(b) 25</td><td>(c) 29</td><td>(d) 21</td><td>00313</td></tr><tr><td>Dr201</td><td>100000</td><td></td><td>those living in water are</td><td>CO3,L2</td></tr><tr><td>cominals the animals which can v</td><td>walk are called dancers, animals</td><td>who crawl are called Actors,</td><td>those living in water are</td><td>Canca</td></tr><tr><td>cominals then what will a CAT be</td><td>Called ?</td><td>(c) Criminals</td><td>(d) None</td><td></td></tr><tr><td>1000</td><td>(b) Actors</td><td></td><td></td><td>CO3,L2</td></tr><tr><td>(a) KOMYDO is coded as "</td><td>ZXGLI', and 'BOOK' is coded as</td><td>'YLLP', then 'PENCIL' will be</td><td>coded as</td><td></td></tr><tr><td>(a) KVMXRO</td><td>(b) KUMRXO</td><td>(c) KVMXOR</td><td>(d) KZIXDG</td><td>CO3.L2</td></tr><tr><td>Q(40) In a certain code languag</td><td></td><td></td><td></td><td>CU3,L2</td></tr><tr><td></td><td></td><td>(B) 'na jo tod' means 'wate</td><td>er is life'</td><td></td></tr><tr><td>C) 'tub od pit' means 'give me to</td><td>y'</td><td>(B) 'na jo tod means wait (D) 'jo lin kot' means 'life a</td><td>and death'</td><td></td></tr><tr><td></td><td></td><td>100.177.</td><td></td><td></td></tr></tbody></table>		

Registration No.: Which of the following represents 'is' in that language? (b) na (a) tod (c) jo Q(41) 14, 28, 20, 40, 32, 64, ... What number should come next? (d) lin CO6.L4 (b) 79 (a) 56 (c) 41 Q(42) 1.5, 2.3, 3.1, 3.9, ... What number should come next? (d) 40 CO3.L2 (b) 5.4 (a) 2.1(c) 4.7Q(43) If x y is 2:3, find the value of (4x + 3y): (3x+7y)(d) 8.1 CO3.L2 (a) 17:90 (b) 17:27 (c) 80:9 Q(44) The ratio of Boys & Girls 1s 7:5, when 40 girls more joined the ratio becomes 7:9. Find the initial number of girls CO1,L3 Q(45) A mixture contains alcohol and water in the ratio 4 : 3. If 5 liters of water is added to the mixture, the ratio becomes 4: 5. Find (d) None the quantity of alcohol in the given mixture. (a) 10 (b) 12 (c) 15 Q(46) In what ratio must a shopkeeper mix two varieties of pulses costing Rs. 10 per kg and Rs. 20 per kg respectively so as to CO1,L3 (b) 8:1 (c) 9:2 Q(47) In a fort, there are 1200 soldiers. If each soldier consumes 3 kg per day, the provisions available in the fort will last for 30 days. If some more soldiers join, the provisions available will last for 25 days given each soldier consumes 2.5 kg per day. Find the (c) 528 (d) 582 Q(48) The ratio of Boys & Girls is 2:5, when 50 girls more joined the ratio becomes 4: 15. Find the initial number of boys CO1,L3 (c) 32 (d) None Q(49) A sum of Rs. 427 is to be divided among A, B and C such that 3 times A's share, 4 times B's share and 7 times C's share are CO1.L3 (b) 88 (c) 84 (d) 99 Q(50) A invests Rs.600 for 7 months, B invests Rs.2100 for 2 months and C invests Rs.300 for 14 months in a business. If profit is CO1.L3 (a) 200 (b) 700 (c) 900 (d) None Q(51) The number of oranges in three baskets are in the ratio of 3 : 4 : 5. In which ratio the no. of oranges in first two baskets must (a) 1:2 (b) 2:1 (c) 3:4 (d) 4:3 Q(52) In what ratio must a shopkeeper mix two varieties of pulses costing Rs. 10 per kg and Rs. 26 per kg respectively so as to get (a) 1:1 (b) 2:1 (c) 4:1 (d) None Q(53) A mixture contains alcohol and water in the ratio 4 : 3. If 5 liters of water is added to the mixture, the ratio becomes 4: 5. Find (a) 12 (c) 15 (d) 18 Q(54) A sum of Rs. 427 is to be divided among A, B and C such that 3 times A's share, 4 tunes B's share and 7 times C's share are CO1,L3 (a) 84 (b) 96 (c) 140 Q(55) A sum of Rs.312 was divided among 100 boys and girls in such a way that the boy gets Rs.3.60 and each girl Rs. 2.40 the (d) 120 CO1.L3 (b) 35 (c) 40 Q(56) Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will CO1.L3 (b) 26 (c) 28 Q(57) The Indian Cricket team consists of 16 players. It includes 2 wicket keepers and 5 bowlers. In how many ways can a cricket CO1.L3 (c) 998 Q(58) If there are 20 dots on a circle, how many triangles can be formed? (d) 729 (b) 540 LI Q(59) How many numbers not exceeding 10000 can be made using the digits 2,4,5.6,8 if repetition of digits is allowed?

CO3,L2

	Registration No.			
Q(60) In how many different way	s can the letters of the wo	d 'CORPORATION' be arranged	to the the vowels alway	ys come
together?	(b) 48000	CORPORATION be attained	so that the town.	
(a) 47200		(c) 42000	(d) 50400	C03,L2
O(61) Find the probability of get	the heads in all four trials u	when a coin is tossed four times		000,02
			(d) 1/8	
O(62) How many integers great	ter than cook	(6) 1104	(u) 1/0	CO3,L2
dinits is allowed?	and 1999 but not greater	than 4000, can be formed with the	e digits 0. 1. 2. 3 and 4	, if repetition of
(a) 673	(b) 376			
		(c) 375	(d) 500	
Q(63) Find number of diagonals (a) 9	(b) 19			,L1
		(c) 199	(d) None	
Q(64) What is the probability that	at a number selected from	1, 2, 3 25 is a prime number?		CO1,L3
(a) 7/29	(b) 9/25	1, 2, 325 is a prime number?		
O(65) How many words with or	without	(c) 8/25	(d) 11/25	00010
exactly once?	without meaning, can be for	ormed by using all the letters of the	word 'DELUI' using a	CO3,L2
(a) 720	(b) 120	and by soming an one remens of the	e word, DELMI using e	achietter
1.50		(c) 240	(d) None of these	
Q(66) A committee of 5 persons	s is to be formed from s		(-) stone of alcoc	CO3.L2
women are included?	ioniio iionii 6 me	n and 4 women. In how many way	rs can this be done whe	n at least 2
(a) 196	(b) 186			
0/67) In Harry		(c) 206	(d) 216	
(a) 24	ays the letters of the word E	BLOCK can be arranged starting (AL DO	,L1
(0) 24	(b) 223	(c) 343	(d) None	
Q(68) One card is drawn at rar	odom from		(d) Notice	CO1.L3
Queen and King only)?	norm from a pack of 52 can	ds. What is the probability that the	card drawn is a face car	rd (Jack
(a) 1/13	(b) 2/13	10 10 10 10 10 10 10 10 10 10 10 10 10 1		(00001)
	CELEVISIONES.	(c) 3/13	(d) 9/52	
Q(69) In How many ways the	word LOCKER be arranged	such that all vowels are together?		CO1,L3
(a) 240	(b) 120	(c) 22	(d) None	
O(70) In a game about				00110
probability that he won a prize	re 5 prize cards and 20 blan	nk cards. A contestant is asked to	choose a card at randor	n. What is the
(a) 3/5				Triat is the
	(b) 2/5	(c) 1/5	(d) 4/5	-
Q(71) Introducing a man, a wo	oman said. 'He is the only s	on of my mother's mother." How is	the warmen as but the same	CO3,L2
(a) mother	p(b) neice	(c) sister	(d) daughter	he man ?
O(72) Tin fell				00014
(a) Uncle	s son of U. X is brother of T	If V is sister of W, how is X relate	d to W?	CO6,L4
,	(b) Father	(c) Brother	(d) Son	
Q(73) Virat goes first 5 Km no	orth then turns right and mo	ve 12 Km, how far is he from the s		CO6,L4
(a) 13 Km	(b) 23 Km	(c) 33 Km	starting point?	
			(d) None	
Q(74) It is 4:30 by the clock.	If the minute hand points to	wards the west direction, then whi	ch dienetia	CO6,L4
(a) South-west	(b) North-west	(c) South-east	d) No the hou	ur hand point to ?
O/75) A man unite 3 km tour	and Fact 411		(d) North-east	CO6,L4
(a) South	(b) North	is left. Now in which direction is t	ne walking?	000,24
		(c) East	(rf) Wood	
Q(76) P+Q' means that P is	the son of O 'P-O' masse to	hat P is the wife of Q, 'P*Q' mean ister of Q, then, what does X+Y+;		C06,L4
that P is the mother of Q and	'P=Q' means that P is the	hat P is the wife of Q, 'P*Q' mean ister of Q, then, what does X+Y+;	s that P is the brother o	O 'P/Q' means
(a) X is the grandson of Z	(b) X is the brother of			Manager Control
		(c) V is the moniel of	Z (d) None	
Q(77) There are six persons	A. B, C, D, E and F. C is the	sister of F. B is the brother of E'd a mother in the group. Who is		CO5,L4
grandfather of F. There are tw	o fathers, three brothers an	sister of F. B is the brother of E'd a mother in the group. Who is	s husband. D is the fath	er of A and
(a) A	(b) B	(c) C	are momet 3	
		(0)0	(d) E	CO3,L2
Q(78) Shardul walked 21 km	towards East and then 28	on towards South How far is he	t	(03,12
(a) 35	(0) 30	on towards South. How far is he	north the starting point is	n km?
O(70) Showing Bidge who is	receiving the price Dur.		(d) 38	C06,L4
(a) Son	(b) Cousin	aid, "He is the brother of my uncl (c) Nephew	e's dayer.	iden to Putin ?
(4) 5011	(-) Oousiii	(c) Nephew	daughter." Who is E	siden to Futil.
O(80) Amit started walking D	ositioning his back town		(d) Brother-in-la	W CO6,L4
left again. In which direction i	s he going now?	the sun. After some time, he turn	ned left +L	the and lowards the
(a) south	(b) north		turned rig	III all to
		(c) north or south		
	Fn	doto	(d) west	CO3,L2
		d of Question paper-		