## COURSE CODE: PEA305 Course Title: ANALYTICAL SKILLS

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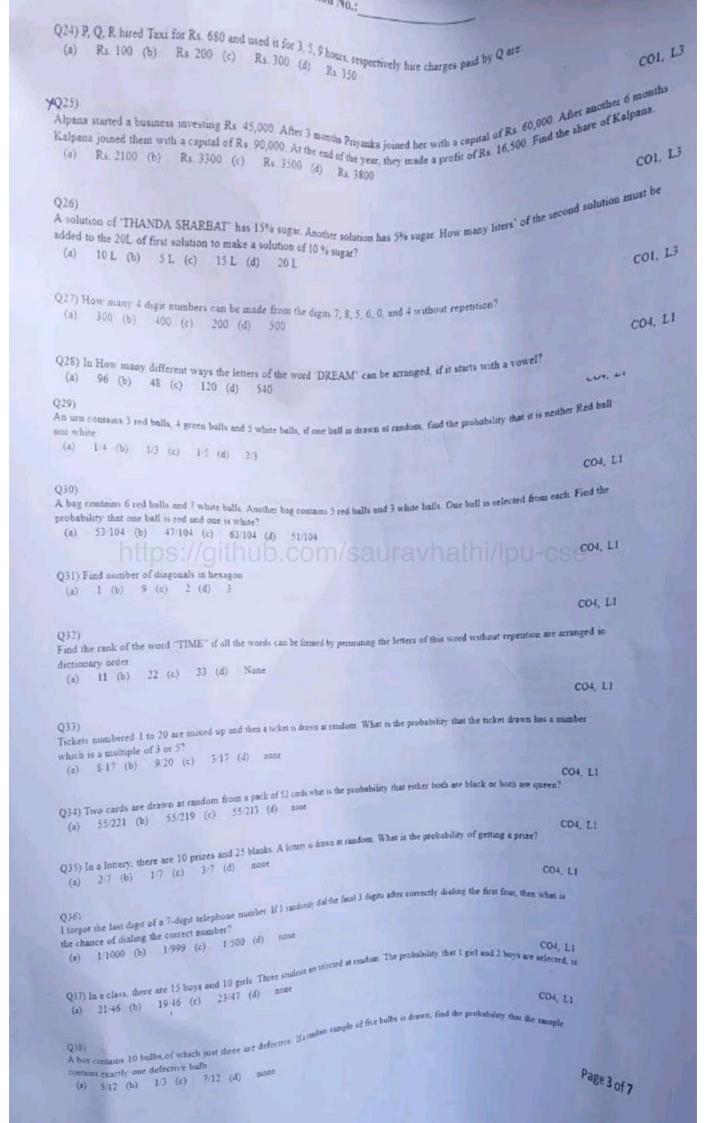
Read the following instructions carefully before attempting the question paper.    Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and er are the same.	isure that both
3. Attempt all the questions in serial order.	
4. Do not write or mark anything on the question paper and/or on rough sheet(s) which could be helpful 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	to any ne examination
Use of calculator/log table is not allowed.  Q1) In how many ways a group of 3 students can be selected from 7 men and 5 women consisting of 1 man and 2 women?  (a) 70 (b) 110 (c) 7 (d) 60	
Q2)	CO4, L1
From a box containing 8 yellow and 5 white pens, three are drawn one after the other. Find the probability of all three pens bein if the pens drawn are not replaced?  (a) (b) (c) (d)	g yellow
	CO4, L1
Q3)	The second second
There are 15 boys and 10 girls in a class. If three students are selected at random, what is the probability that 1 girl and 2 boys are selected?	
(a) (b) (c) (d)	
	CO4, L1
Q4) A boy walks 21 Km towards south and then turns to the right. After walking 11 Km he turns to the left and walks 21 Km. Now in which direction is he from the starting place?  (a) West (b) East (c) North-East (d) South-West OM/Sauravhath/DU-CS	
Q5) B is the husband of A. B is the father of C. D is the son of A. How is D related to C?  (a) Wife (b) Husband (c) Brother (d) Uncle	12
COS  (a) A, B, C are sibling (b) D is Uncle of A (c) B is a male (d) A is cousin of C	, L2 ct?
COS	, L2
(27) The son of Z is the father of Y and grandfather of X. T is the sister of X. How is Z related to T?  (a) Grand-father (b) Grand-mother (c) Father (d) Can't Determine	
	, L2
Q8)  D is son of E. M has only two children- D and F. T is the sister of U. F married to V. M has only daughter. W is the mother of E. T married  D is son of E. M has only two children- D and F. T is the sister of U. F married to V. M has only daughter. W is the mother of E. T married	
o D. X married to W, and M is the son of Daughter in law (d) Daughter	
(a) Aun (b) COS, 12	
Q9) If you are facing north-east and move 10 m forward, turn left and move 7.5 m, then you are (a) north of your initial position (b) south of your initial position (c) 12.5 m from your initial position (d) Both A and C	
(a) north of your united position (c)	
Q10) Niral goes 30 metres North, then turns right and walks 40 metres, then again turns right and walks 20 metres, then again turns right and walks 40 metres. Now he is in which direction from the starting point?  (a) North (b) good (c) good (d) west	
(a) North (b) south (c) east (d) west CO2, L2	
Otto and crandmother of Amitable.	
Qtt)  Abhishek is son of Amitabh's father's sister. Prakash is son of Teji who is mother of Vikash who is a male and grandmother of Amitabh.  Harvansh is father of Neela and grandfather of Abhishek. Teji is wife of Harivansh.	
(a) Abbishek related to Teil?	
band son (b) son (c) brother (d) none	Page 1 of >

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Q12)	
B and C are siblings. M has two children and he is son of E, who is father-in-law of H. H has only one son. C is not granddaughter  (a) Granddaughter (b) daughter (c)	
(a) Granddaughter (b) daughter (c) eister (d) NONE	01
Q13) A man said to a lady, "Your mother's husband's sister is my aunt" How is that lady related to that man?  (a) Sister (b) Brother (c) Father (d) GrandFather	02
O14) If South cut because Early and the Co	)2,
Q14) If South east becomes East, North-East becomes North and so on. What will West become?  (a) West (b) South West (c) North (d) None	
Q15)	2,
A man walks 3 Km northwards and then turns right and goes 2 Km. He turns left and goes 3 Km. He turns right and walks straight. I which directions is he walking now?  (a) East (b) West (c) North (d) None	n
CO2	1
Q16) Man walks southwards, then takes a half left turn. In which direction is he walking now?	
(a) North East (b) South East (c) North West (d) None	
CO2,	I
Q17) One fine morning on his morning walk, Kapil noticed Seeta who was doing Soorya namaskar facing the rising sun. He went to her, gree her Good Morning and took a left turn. In which direction, is he walking now?  (a) North (b) South (c) East (d) West	ete
(a) North (b) South (c) East (d) West CO2,	L
Ananya goes to the departmental store, which is to the North of her house, 6 km away by an auto. After the shopping she decides to visit Ananya goes to the departmental store, which is to the North of her house, 6 km away. From there she visits a shop which is 6 km her friend Ayushi, Hence turns to the right and reaches her friend's house which is 8 km sway. From there she visits a shop which is 6 km away, taking a right turn. Finally, she turns to the right and phones up to the house to send the car.  How far is Ananya from her house?  (a) 6 km (b) 10 km (c) 12 km (d) 8 km  (b) 10 km (c) 12 km (d) 8 km  (c) 12 km (d) 8 km	n
(a) Son (b) Brother-in-law (c) replies (d)	
. CO2, L	
(20) a family of six persons - Anu, Ayushi, Sohan, Ajay, Anupam and Anuj - there are three males and three females. There are two marries a family of six persons are unmarried. Each one of them has different professions, viz. Doctor, Engineer, Lawyer, Teacher, Writer and pupils and two persons are unmarried. Each one of them has different professions, viz. Doctor, Engineer, Lawyer, Teacher, Writer and	j
rehitect.  nupam, who is a Engineer, is mother-in-law of Anu, who is the wife of Sohan. Ajay is the father of Anuj and he is neither Doctor nor nupam, who is a Engineer, is mother-in-law of Anu, who is the wife of Sohan. Ajay is the father of Anuj and he is neither Doctor nor nupam, who is a Engineer, is mother-in-law of Anu, who is the wife of Sohan. Ajay is the father of Anuj and he is neither Doctor nor nupam, who is a Writer and is the sister of Anuj, who works as Lawyer. Sohan is not an Architect. How many sons does Anupam rehitect. Ayushi is a Writer and is the sister of Anuj, who works as Lawyer. Sohan is not an Architect.	
(a) Four (b) Three (c) Two (d) None	
CO2, L2	
21) invests Rs.700 for 6 months, B invests Rs.600 for 7 months and C invests Rs.300 for 14 months in a business. If profit is Rs.1800 then hat is the share of B? hat is the share of B? 200 (c) 600 (d) None	
hat is the small (a) 100 (b) 200 (c) 600 (d) None	
CO4, L1  22) K is younger than B by 8 years and their ages are in the respective ratio of 5:9, how old is K?  22) K is younger than B by 8 years and their ages are in the respective ratio of 5:9, how old is K?	
(a) 10 (b)	
CO1, L3	
starts business with Rs. 4500 and after 9 months, Q joins with P as his partner. After a year, the profit divided in the 3 : 5. What is Q's nuribution in the capital?  Rs. 10000 (c) Rs. 20000 (d) Rs. 30000	
(a) Rs. 5000 V	
CO1, L3	

1,2

L2

1.2



	COt, Li
Q39)  Five students are to be arranged on five chairs for a photograph. Three of these are girls and the rest are boys.	
ways in which all three gurls do not occupy consecutive seats.	Find out the number P*
(a) 120 (b) 36 (c) 84 (d) 136	
	co4, L1
Q40) Using all the letters of the word LINEAR.	
How many words start with a vowel but end with a comonant?	
(a) 224 (b) 316 (c) 212 (d) 216	
Q41) Choose the correct alternative from the given ones that will complete the series.  AD EI IN OS 7	
(a) UX (b) XY (c) WY (d) UY	CO6. L4
	COO
Q42) Choose the correct alternative from the given ones that will complete the series.	
66 40 67 45 69 7	
(a) 50 (b) 60 (c) 75 (d) 49	co6, L4
	in the word as in
Q43) How many such pairs of letters are there in the word ADJUSTMENT each of which has as many letters between the English alphabet?	en them in
the English alphabet?	co6, L4
(a) None (b) One (c) Two (d) Three	C00, 2
	s coved is
Q44) Each consonant of the word 'TERMINATION' is changed to the previous letter in the English alphabetical series. If the new alphabets thus formed are arranged in a changed to the next letter in the English alphabetical series. If the new alphabets thus formed are arranged in a to right), which of the following will be the sixth letter from the right end?	ries and each voter (from less
Each consonant of the word TERMINATION is changed to the previous that it has formed are arranged in a	lphabeura
to right), which of the following will be the sixth letter from the right case.	
(a) M (b) 5 (c) 1 (c) 1	
	wher which
Q45)  If in a certain language, 'oka peru', means 'fine cloth', 'meta lisa' means 'clear water' and 'dona lisa peru' means word in that language means 'weather'?	fine clear wearen
If in a certain language, oka peru, means fine cloth, meta lisa means clean and the line of the line o	
n (e) meta (d) QCR3	CO6. L4
(a) peru (b) oka (c) antia (c)	
Q46) Study the following information carefully and answer the questions given below:	
to a costone code language.	
to a fallow to house in covitien 35 'SV bo II) KW	
'invest money and time' is written as 'kw bo rd fp'	
(2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
What is the code for "stull in the great code	
(a) fp (b) rd (c) kw (d) bo	
(a) fp (b) rd (c) and (c) and (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	
TO THE PROPERTY OF THE PROPERT	
'invest money and time' if written as 'kw bo rd fp'	
"buy good stuff only is written as "to fp mr ux" "only work and money" is written as "to fp mr ux" "only work and money" is written as "to fp mr ux"	
"only work and money" is written as to ap in the give code language?  What is the code for "invest time to work" in the give code language?  What is the code for "invest time to work" in the give code language?	
What is the code for "invest time to work (c) mr sv bo ta (d) un ge ni sv  (a) ta m kw rd (b) to fo un ni (c) mr sv bo ta (d) un ge ni sv	C06, L4
Q48) If 'sand' is called 'air', 'air' is called 'plateau', 'plateau' is called 'well', 'well' is called 'island' and 'island' is called 'sky', the	en from where will
The state of the s	
(a) well (b) island (c) sky (d) air	
	C06, L4
Q49) If BE QUICK is coded as ZC OSGAL, then the code of the last letter of the third word in the sentence I LOVE MY COL	NTPV
If BE QUICK is coded as ZC OSGAL then the code of the	
(a) A (b) T (c) U (d) W	C06L4

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	de language?
(a) KOEEPA as SPRING is written as UNITED and if that Co	
(a) KQEFPA (b) OMDGNC (c) OMDGPA (d) OMEFPA	CO6, L4
251) The ratio of Power of a grant and a g	I number of
(a) 40 (b) 67 (c) sign 50 girls may	
(d) OMEFPA  (51) The ratio of Boys & Guls is 2.5, when 50 girls more joined the ratio becomes 4-15. Find the nutral  (a) 40 (b) 67 (c) 50 (d) 78	CO2, L2
Q52) If x:y is 2:3, find the value of (4x + 3 y) :(3x+7y) (a) 17:27 (b) 19:7 (c) 21:23 (d) None	CO2, L2
707 None	and What
Q53) Three friends went for a picuic. First brought five apples and the second brought three. The third friend has the share of the first friend?  (a) 7 (b) 1 (c) NONE (d) 6	owever brought only ICs.B. William
Three friends went for a service Time.	
is the share of the first friend?	
(a) 7 (b) 1 (c) NONE (d) 6	CO1, L3
	olds 500 litres more than the
Q54)	vice the amount of fuel in the
Two full tanks, one shaped like a cylinder and the other like a cone, contain jet fuel tank contains to	
Q54) Two full tanks, one shaped like a cylinder and the other like a cone, contain jet fuel. The cylindrical tank contains to conical tank. After 200 litres of fuel has been pumped out from each tank be cylindrical tank contains to conical tank. How many litres of fuel has been pumped out from each tank be cylindrical tank contains.	
The state of the state of the other of the state of the s	co1, L3
177 TEVE (4) 1000 (6) 1300 (8) NONE	
Q55) The cost of diamond varies directly as the square of its weight. Once, this diamond broke into four piece 4. When the pieces were sold, the merchant got Rs. 70,000 less. Find the original price of the diamond.	with weights in the ratio 1:2:2
Q55) and broke into four piece	is with
The cost of diamond varies directly as the square of its weight. Once, this diamond broke into the cost of diamond varies directly as the square of its weight. Once, this diamond the diamond of the pieces were sold, the merchant got Rs.70,000 less. Find the original price of the diamond (a) 1 LAC (b) 2 LAC (c) NONE (d) 3 LAC	
4. When the pieces were sold, the merchant got Rs. 70,000 less. Find the diversity of the control of the contro	co1, 1
(a) 1 LAC (b) 2 LAC (c) AGAG (b) 2 LAC	
	What is the present age
Q56) The ratio of the age of Tom and Bob is 9:10 respectively, 26 years ago, the ratio of their ages was 4:5 re of Bob?  All years (d) 60 years	DU-CSE
(a) 10 years (b) 20 years (c) 40 years (d) 60 years  Q57)  A jar contains a mixture of two liquids A and B is the ratio 11:9. When 9 liters of mixture are drawn of ratio of A and B becomes 1:1. How many liters of liquid A was contained by the can initially? (approximation of A and B becomes 1:1. How many liters of liquid A was contained by the can initially?	Gued with B, the
	f and the jar is times
A far contains a mixture of two liquids A and B is the ratio 11:9. When 9 lifers of minimally? (approxi	mimately)
A jar contains a mixture of two liquids A and B is the ratio 11:9. When 9 liters of mixture are distributed of A and B becomes 1:1. How many liters of liquid A was contained by the can initially? (approximation of A and B becomes 1:1. How many liters of liquid A was contained by the can initially?	co3, 1
(a) 44 L (b) 49.5 L (c) 55 L (d) 50.5 L	Cost
	Colonismor is Rs. 465
Q58) In what ratio should almond costing Rs. 535 per kg be mixed with almond costing Rs. 375 per kg so the	at the cost of the initiation
In what ratio should almond costing Rs. 535 per kg be mixed with almond costing 3	
per kg? (d) 7.5	-41 7 77
per kg? (a) 9:7 (b) 7:9 (c) 5:7 (d) 7:5	CO3, 1
	4.00
Q59) In what ratio must a shopkeeper mix two varieties of Tea costing Rs. 40 and Rs. 76 per kg respectively	so as to get a mixture worth Rs.
Q39)  To subst earlie must a shopkeeper mix two varieties of Jea costing Rs. 40 and 45	
kg? 1.9 (d) None	
kg? (a) 2.3 (b) 5:4 (c) 1:9 (d) None	CO2,
Q60) In what ratio must a shopkeeper mix two varieties of pulses costing Rs. 10 and Rs. 26 per kg respective	ely so as to get a mixture worth R
Q60) shookeeper mix two varieties of pulses costing its. To and its and a second cost of pulses costing its second cost of pulses costing its second cost of pulses costing its second cost of pulses cos	
In what ratio must a story	
18 kg <sup>-1</sup> (a) 1.1 (b) 1:9 (c) 9:1 (d) None	and dist
	CO4,
. 12/6 Fmd the number	
of the rational and its reciprocal is 13.0.2 and	
Q61) The sum of the rational and its reciprocal is 13/6. Find the number.  (a) 5/3 (b) 2 (c) 3/2 (d) 5	
Q62) What is the units place digit in the expansion of (249)*647	CO1,
D62) What is the units place digit in (d) 9	
Q62) What is the units place digit if (d) 9 (a) S (b) 3 (c) 1 (d) 9	
	CO1,

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Q63) When a number divided by 288, the remainder is 47. Find the remainder when the same number is divided by 24  COL 13	
when the same number is divided by 2.	COI, I
DNA TWILLI	
in a class with a certain number of and	
If one more student weighing 50 kg is added to new student weighing 50 kg.	
If one more student weighing 50 kg is added, then the average weight of the class increases by 1.5 kg over the original average weight (in kg) of the class?  (a) 46 (b) 42 (c) 27 (d) 47	creased by 1 kg
207	
The average salary of male employees in a firm was Rs. 5000 and that of females was Rs. 5600. The mean salary of all the (a) 50% (b) 50% (c) 70% (d) 20%	col. 13
Rs. 5800. What is the % of female employees?	COII
(a) 60% (b) 50% (c) 70% (d) 20%	empary
(00)	
The average sales of a mobile shookeener and the	col. L3
The average sales of a mobile shopkeeper was 15 mobiles per week, to increase the sales he decided to tie up with a finance annual percentage increase in the sales of mobile was  (a) 40% (b) 140% (c) 42.66% (d) 39.33%	week. The
Q67	CO1. L3
In a class of 'x' students, if a new student weighing 30 kg joins the class, then the average weight of the class increases by 1 kg. Student's weight is 18 kg, then the average weight of the class decreases by 1 kg. Find 'x'  (a) 4 (b) 5 (c) 6 (d) 7	kg. If the per
Q68) What is the sum of the following series? -64, -66, -68.	CO1, L3
100 (a) -1458 (b) -1558 (c) -1568 (d) -1664	
Q69) Second term in an AP is 8 and the 5th term is 2 more than thrice the second term. Find the sum up to 8 terms of this AP.  (a) 124 (b) 105 (c) 96 (d) 110	col, L3
Q70) The last term of the 10 number series 1, 2, 4 is	co1, L3
(a) 512 (b) 256 (c) 1024 (d) Cannot be determined	
	col. L3
Q71) Shobba's Mathematics test had 75 problems i.e. 10 arithmetic, 30 algebra and 35 geometry problems. Although she answered arithmetic, 40% of the algebra and 60% of the geometry problems correctly, she did not pass the test because she got less than problems right. How many more question she would have needed to answer correctly to earn a 60% passing grade?	10% of the 60% of the
problems right. How many more question she would have needed to answer correctly to earn a 60% passing grade?	
(a) 2 (b) 4 (c) 5 (d) 7	CO2, L2
Q72) Fourty-five percent of a number is 30 less than three-fifth of that number. What is the number?	
(a) 100 (b) 120 (c) 130 (d) 200	
	CO2, L2
Q73) When the price of a product was decreased by 10%, then the number of sell increased by 30%. What was the effect on the total to the price of a product was decreased by 10%, then the number of sell increased by 30%. What was the effect on the total to the price of a product was decreased by 10%, then the number of sell increased by 30%. What was the effect on the total to the price of a product was decreased by 10%, then the number of sell increased by 30%. What was the effect on the total to the price of a product was decreased by 10%, then the number of sell increased by 30%.	evesue?
(a) 5% (b) 10% (c) 12% (d)	CO2, L2
Q74) If the numerator of a fraction be increased by 15% and its denominator be diminished by 8%, the value of the fraction is 15/16. If	Find the
(a) 1/2 (b) 3/2 (c) 3/4 (c)	CO2, L2
to the for Rs 25 and sells it for Rs 30. Find her gain percent.	
(a) 5% (b) 5% (c)	CO2, L2
Q76) A reduction of 20% in the price of rice enables a person to buy 2 kg more for Rs 30. Find the reduced and the original price per kg (a) Rs 3 and 3.75 per kg (b) Rs 3 and 2.75 per kg (c) Rs 2 and 3.75 per kg (d) Cannot be determined	of rice.
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	CO2, L2
(a) Rs 261 (b) Rs 361 (c) Rs 371 (d) Rs 431	CO2, L2
Q78) A seller buys mangoes at Rs. 2 for 3 mangoes and trade them at a rupee each. To make a profit of Rs. 10, he must sell  (a) 10 mangoes (b) 20 mangoes (c) 30 mangoes (d) 40 mangoes	CO2, L2
Q79) The rate at which a sum becomes four times of itself in 15 years at S.I, will be:  (a) 12% (b) 15% (c) 20% (d) 25%	CO2, L2
Q80) Find the compound interest on Rs 10,000 at 20% per annum for 6 months, compounded quarterly.  (a) Rs 4353 (b) Rs 1329 (c) Rs 1025 (d) Rs 2649	CO2, L2

--- End of Question Paper---

https://github.com/sauravhathi/lpu-cse