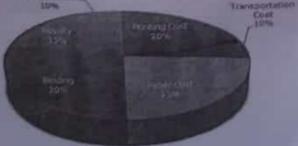
	200020	STORY SE	ALC: UNK	100000
Reg	intr	ratic	n n	10
17034	100.61	-	****	

Paper Code: B

Course Code:PEA308 Course Title:ADVANCED ANALYTICAL SKILLS-II

Time Allowed: 2 hrs	the most	Max, Mari	Kar 80
Rend the total was a shaded on the OMR Sheet with the I		question paper and ensure	that both
2 This question paper contains 80 questions of 1 mark each 0. 3 Attempt all the questions in serial order. 4 Do not write or mark anything on the question paper and/or	on rough deserves which much	the helpful to any	
Do not write or mark anything on the question paper student in copying, except your registration number on the desi	gnabld space.	there before leaving the ex-	umnation
5. Submit the question paper and the rough smells) drong was	a see state shirt at the brong	number objects reaction	
6. Use of calculator/log table is not allowed.		war and a programmely	milk can
Q(1) A conical vessel has a capacity of 15 L of milk, its I	neight is 50 cm and base re	idius is 25 cm. How must	THE SOLL
be contained in a vessel in cylindration (b) 30L	(c) 45L	(d) 60L	CO4,L3
O(2) From the top of a hill, the angles of depression of the	wo consecutive 1 kilometer	stone due west are found	to be
(a) 491 m (b) 1366 m	(a) 1065 m	(d) 1296 m	CO4,L3
Q(3) From a point A on a level ground, the angle of elev	vation of the top steel rope	is 30". If the tower is 150	m high.
the distance of point A from the loot of the lope to	c. 250√3	d. None	
		total surface area of the	cone is 4.
Q(4) The radius of the cone is 10 cm. The ratio of the c	urved surface area dito are		
5. Find the stant height of the core	(c) 35 cm	(d) 42 cm	CO1.L3
Q(5) A circle is inscribed in a square of side 48 cm. Fin	d the area of the remaining	portion of the square who	ch is not
enclosed by the circles (h) 439 715 cm2	(c) 493 / 15 Gmz		CO1:13
	less than the circumference	e of the base and the cu- wood?	(40%
(a) 289.5 (b) 269.5	(c) 462	(d) 462.5	CO1,L3
Q(7) It was Sunday on Jan 1, 2006. What was the day (a) Sunday (b) Saturday	(y)	(d) Wednesday	CO5,L3
Q(8) What was the day of the week on 28th May, 200 (a) Thursday (b) Friday	(0) 001	(d) Sunday	CO5,L3
(a) Thursday (b) Friday	What time	will it show at 7 pm on	the same day?
Q(9) A watch gains 6 minutes in one hour and was se (a) 8: 06 pm (b) 7: 07 pm	(c) 8.30 pm	(d) 7: 30 pm	CO5,L3
Q(10) Statement: M≥R C=M Conclusions: I A > R II C≥H	(b) If only conclus	on II is true	
(a) If only conclusion I is true (c) If either conclusion I or II is true	(d) If neither conc	usion I nor II is true	CO1,L3
Q(11) Eight people of which A, B, C, and D are wome	in and P. Q. R. and S are	men sit around a circu	ular table facing
towards the centre.	of facing P. O. who is in	mediate neighbour of	C, faces P. K IS
None of the women sit as immediate neighbour A is immediate neighbour of D but not of C. D does not sit R.	second to the right C. Al	least one person sits	between A and
Who sit to the immediate right of S?	100	(4) (2)	
(a) C (b) A	(c) P	(d) Q	CO1,L3

Over the second	Registration No.:			1
sits between A and R. Who sits in front of B?	ch A, B, C, and D are women of the women sit as immediate late neighbour of D but not of C	and P. O. R. and S are me neighbour. A is not facing D does not sit second to	n sit around a circular B. Q, who is immedia the right C. At least o	table facilities to the neighborhold neighbo
(a) D	(b) C	(c) S	(d) Q	
Q(13) Statements: W & Conclusions: I. W @ Y (a) if only conclusion I is (c) if either conclusion I of	II.Z # C	(b) if only conclusion (c) if neither conclusion	l is true	CO1,L3
left of H who sits second	C. D. E. F. G and H are sitting of C. F is second to the right of E to the left of G. Four of the followed so form a group. Which is or	who is not an immediate r wing five are alike in a cert to that does not belong to t	neighbor of B. D sits se ain way based on the	right of A econd to the ir position in
	(b) HG	(c) EF		CO5,L3
Q(15) A clock is set right	nt at 8 a.m. The clock gains 10 n	ninutes in 24 hours will be t	he true time when the	clock
indicates 1 p.m. on the f (a) 48 min. past 12	ollowing day?	(e) 45 min. past 12.	(d) 47 min. past 12	
	(b) 45 min. past 12			CO1,L3
of 8. Which of the follow (a) E is the immediate ri	ght of D	(b) D is 2nd to the righ		nmediate left
(c) A is 3rd to the right of	of C	(d) None is false		CO5,L3
Q(17) The last day of a	century cannot be			000,20
(a) Tuesday	(b) Monday	(c) Wednesday	(d) Friday	
	and the state of a start of mate	anale in a day?		CO1,L3
Q(18) How many times a. 22	are the hands of a clock at right b. 33	c 66	d. None	
			athi/ini	
Q(19) Chirag's birthday	is on Thursday 1st June. On w	hat day of the week will be i	Reyansh's Birthday in	the same
year if Reyarish was bo	(b) Sunday	(c) Friday	(d) Saturday	
(a) Wednesday			(5)	CO1,L3
Q(20) Today is Friday.	After 62 days, what day will it be	?	141 6	
(a) Thursday	(b) Saturday	(c) Friday	(d) Sunday	CO1,L3
Orași) II foday is Monda	ay, which day of the week will it i	be after one year?		501,63
(a) Tuesday	(b) Wednesday	(c) Monday	(d) Either (a) or (t	
	2 - 6 V V V V V V V	to the second second second	the section of	CO1,L3
	ock is 6 hours 45 minutes, then (b) 4 hrs. 15 min.	(c) 7 hrs. 45 min.	(d) 5 hrs. 15 min	
(a) 5 hrs. 45 min			72.51	CO1,L3
O(23) An accurate cloc	k shows 8 O'clock in the mornin	g. Through how many deg	rees will the hour-hand	rotate when
the clock shows 2 O'clo	ck in the afternoon?			
(a) 30°	(b) 180°	(c) 90°	(d) 150°	CO1,L3
Study the ple-chart and t	chart shown the percentage dis	tribution of the expenditure to it. Various Expenditure	e incurred in publishing es (in percentage)	
Promotors Cost.	Transportation			
	VZCONU SZGE			
A STATE OF THE PARTY OF THE PAR				
	THE PARTY NAMED IN			
tindry.	State of			



Incurred in publishing a Book
What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

(b) 24*
(c) 54*

CO6,L1 Page 2 of 9

Registration No.:

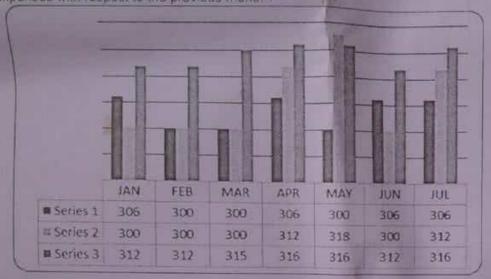
question. How much was the total sale of the company ?

scompany sold 8000 units of product A each costing Rs 25 nis company has no other product line.

- (a) I alone is sufficient while II alone is not sufficient
- (c) Neither I nor II is sufficient.

- (b) Il alone is sufficient while I alone is not sufficient.
- (d) Both I and II are sufficient

Q(26) Refer to the following bar graph and solve the questions based on it. The following bar chart shows the monthly expenditure of a family over a period of seven months during three different years 1998(series1). 1999(senes2)2000(series3). In any of the given years, which month sees the maximum percentage increase in expenses with respect to the previous month?



(a) February

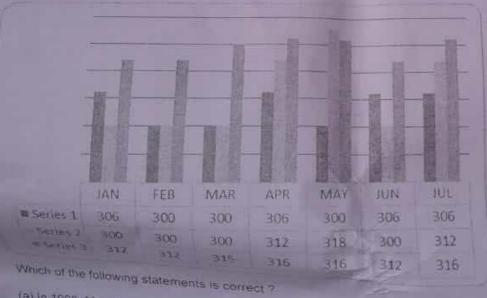
(b) March

(c) April

(d) June

CO6.L1

Q(27) Refer to the following bar graph and solve the questions based on it. The following bar chart showns the monthly expenditure of a family over a period of seven months during three different years 1998(series1) 1999(seriees2), 2000(series3)



(a) In 1998, May-June were the two consecutive months during which the expenditure was the maximum for the expenditure was the maximum for the (a) in 1998, May-June were the two consecutive months which the epoch (b) During May-June 1999, the expenditure was the maximum for the year (b) During May-June 1999, the expenditure was the maximum for the year (c) Expenditure during January-February was the same in 1999 as well as in 2000.

Q(56) Lonevals and Khan	Registration No.:			
Khandala at the rate of 25 from Lonavala will they will (a) 250 km	dala are two stations 600 km km/h. After two hours, anothe cross each other? (b) 300 km	apart. A train starts from Kha	n Lonavala and moves to ndala at the rate of 35 km	owards n/h. How
average speed of cyclist (a (a) 314 m/minute	a circular track of radius 100 pprox)? (b) 20 m/minute	meters completes one	revolution in 2 minutes. V	Vhat is the
Q(58) A motorhoat wont d		(c) 300 m/minute	(d) 900 m/minute	
return trip. If the speed of the Find the speed of the boat (a) 9 km/h, 3 km/h	ownstream for 28 km and implemental formula in the river flow were twice as high in still water and the speed of (b) 9 km/h, 6 km/h	the river flow		minutes.
	N. A. S. W.	(c) 8 km/h, 2 km/h	(d) 12 km/h, 3 km/	/h CO2,L5
The faster train crosses a r (a) 200 meters	ing on parallel lines in the san tran in the second train in 36 s (b) 185 meters	ne direction at speeds of seconds. The length of (c) 225 meters	f 40 kmph and 20 kmph the faster train is (d) 210 meters	recpectively.
Q(60) In a 100 m race. Sh	yam runs at 1.66 m/s. If Shaya	A TOTAL CONTRACTOR OF THE PARTY		CO2,L5
seconds, what is Sujit's spe (a) 1.11 m/s	reur			by 12
	(b) 0.75 m/s	(c) 1.33 m/s	(d) 1 km/h	CO2,L5
not take the examination an (a) 32	he 11th rank and she was 31s d one failed. What is the total	Stifflight of the oldss!	e list of girls passed. Th	ree girls did
(4) 52	(b) 42	(c) 46	(d) 45	220011110
Q(62) Sudesh is 7 ranks at Sudesh's rank from the start			rank is 17th from the las	CO1,L3 st, what is
a) 16	(b) 23	(c) 24	(d) 15	
(63) In a row of children, R avi is 16th from the left. Who) 16 th	avi 10th from the left and Vin at is the new position of vimla (b) 17 th	nla is 12th from the rig a from the right? (c) 18 th	ht. When they exchange	CO1,L3 their places
(64) Statements: Il tubes are cubes. To cube is sky. To bird is sky. Conclusions:	thue.com)	Seluravi	(4) 2011	OS CO1,L3
. No tube is bird. If All birds being cubes is a p	ossibility.			
(a) If only conclusion I follow (c) If neither conclusion I nor	conclusion II follows	(b) If only conclusion (d) If both the conclu	II follow sions follow	CO1,L3
Q(65) Statements: All marks are grades. No grad Conclusions:	le is a score. All scores are le	(5/2)		
I Some scores are character II. All marks being letters is a III. All characters are grades i	S,	1		
(a) Only II follows		1	The state of the s	ollows
Q(66) Solve for x, if (log 400	(b) Only II and III follows /log20) = log x (b) 10	(c) All follows	(d) Only I nor III f	CO3,L3
Q(67) 5 = $(logP)/(log3)$, find	P (b) 81	(c) 100	(d) 400	CO3,L3
	18/19/1			

(c) 243

CO3,L3

(d) 729

Registration No.: atements. No cap is a shirt. ousers are caps a are shirts Jusions I. No cap is a trouser All caps being trousers is a possibility (b) If only conclusion II follows (a) If only conclusion I follows (c) If either conclusion I or II follows (d) If neither conclusion I nor II follows Q(69) In a north-facing row of NCC Cadets, Trisha is 9th from the left end and Tina is 12th from the right end. There are 5 cadets between Trisha and Tanya who is equidistant to Tina. Find how many cadets are there in the row. (c) 31 (b) 32 CO1.L3 Q(70) Statements Some milk is curd Some curd is butter milk. All butter milk is butter. No butter is ghee. Conclusions: I. No butter milk is ghee II Some butter is curd III. Some curd is not ghee. (b) If only conclusion II follows (a) If only conclusion I follows (d) If all conclusions I, II, and III follow (c) If either conclusion I or II follows. CO1,L3 Q(71) Ratio of length, breath of a rectangular box is 5:4. Area of box is 2000 square meter. Find diagonal of the box (approximately). d None a. 64 m b 68None c 74 m Q(72) In a triangle ABC, point D is on side AB and point E is on side AC, such that BCED is a trapezium. DE: BC = 3: 5. Calculate ratio of area of triangle ADE and the trapezium BCED? (c) 3:5 (d) 9:25 (b) 9:16 (a) 3.4 Q(73) At the rate of Rs. 2 per sq m, cost of painting a rectangular floor is Rs 5760. If the length of the floor is 80% more than its breadth, then what is the length of the floor? (c) 72m (d) 75m (b) 35m (a) 25m CO4.L3 Q(74)A 5 m long and 4 m wide cistern contains water up to a breadth of 1 m 25 cm. Find the total surface area of the surface immersed in water? (c) 52.5 m2 (d) 64.5 m2 (b) 49.5 m2 (a) 42.5 m2 CO4,L3 Q(75) How many bricks, each measuring 25cm*11.25cm*8cm, will be needed to build a wall 8m*7m*22.5m? (c) 640000 (d) 630000 (b) 560000 (a) 540000 CO4.L3 Q(76) Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the Q(76) Two ships are salling in the sea of the lighthouse is 100 m high, the distance lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is? (c) 273m (d) 300m (b) 200m (a) 173m CO4, Find the cost of carpeting a room 13 m long and 9 m broad with a carpet 75 cm wide at the rate of Rs. 12.40 CO4.L3 per metro?(in Rs) (a) 1934 40 (c) 1374.40 (d) 1300 (b) 1265.43 CO1,L3 Q(78) The length of a rectangle is twice its breadth. If its length is decreased by 5 cm and breadth is increased by 5 cm, the area of the rectangle is increased by 75 sq cm find the length of the rectangle. (b) 20cm (a) 40cm (c) 10cm (d) 5cm Q(79) The angle of elevation of a tower from a distance 50 m from its foot is 30". The height of the tower is CO1,L3 (b) 50 / v3 m (c) 75√3 m (d) 75 / v3 m Q(80) A cone and a hemisphere have equal base diameter and equal volumes. The ratio of their heights is CO1,L3 (d) 1:3 -- End of Question paper--CO4,L3