MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY BATHINDA (Pb) - 151001

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RESEARCH METHODOLOGY/LOGICAL/ANALYTICAL/LANGUAGE APTITUDE (Common to All Disciplines)

3rd PhD ENTRANCE TEST (PET-2018)

	Roll No:	_ Date: 3rd June 2018	Signature of the Candidate		
Q1	Hypothesis cannot be stated i	n:			
	(a) Null and question form to General terms				
Q2	Which of the following is an ex	ample of negative corre	ation:		
	(a) An increase in population (b) Poor intelligence means I (c) Corruption in India is incre (d) Poor working condition re	ow grades in school easing	of food grains		
Q3	A statistical measure based upon the entire population is called parameter while measure based upon a sample is known as:				
	(a) Sample parameter • • Statistic	(b) Inference (d) Any of these			
Q4	Independent variables are not	manipulated in:			
	(a) Normative researches (b) Both of the above	(b) Ex-post fact (d) None of the			
Q5	Seeing a very big rally it was re	eported that Party A will	win the election, the conclusion was based on :		
	(a) Random sampling(c) Systematic sampling	(d) Purposive samp			
Q6	What do you consider as the m	nain aim of inter disciplir	ary research?		
	 (a) To over simplify the prob (b) To bring out holistic appr (c) To create a new trend in (d) To reduce the emphasis 	oach to research research methodology	arch domain		
Q7	The strength (degree) of the variable Y is measured by:	correlation between a se	et of independent variables X and a dependent		
	(a) Coefficient of Correlation(c) Standard error of estimate	` '	of Determination bove		
Q8	The null hypothesis in the chi-	-square test states that:			
	(a) The rows and columns in(b) The rows and columns in(c) Neither of the two(d) Either of the two				
Q9	A process by which we estin independent variables is called		ndent variable on the basis of one or more		
	(a) Correlation (b) Resi	idual (a) Regressio	n (d) Slope		

Q10	The test to be applied when the number of observations are less than 30 and variance is not known, is said to be:				
	(a) Z-test	T-test	(c) F-test	(d) Chi-square test	
Q11	Find the wrong number in the given sequence: 190, 166, 145, 128, 112, 100, 91				
	(a) 100	(b) 166	(c) 145	(d) 128	
Q12	A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:				
	(a) 100 kmph	(b) 110 kmph	(e) 120 kmph	(d) 130 kmph	
Q13	Arrange the wo	ords given below in	a meaningful sequen	ce:	
			4. Rain 5. Flood		
	(a) 2, 4, 3, 1 (c) 2, 5, 4, 1,	, 5 3	(d) 2, 4, 5, 1, 3 (d) 3, 2, 4, 5, 1		
Q14	Choose the wo	ord which is different	from the rest:		
	(a) Eyes	(b) Ears	(c) Hands	(a) Nose	
Q15				ants, the Government has decided not to give eaning of underlined phrase):	
	Yield (b) Accede (c) Oblige (d) Confirm				
Q16	Here are some	e words translated fr	om an artificial langua	age:	
	 hapllesh means cloudburst srenchoch means pinball resbosrench means ninepin 				
	Which word could mean "cloud nine"?				
	(a) leshsrend (a) haplresbo		b) ochhapl d) haploch		
Q17	Marathon is to	race as hibernation	n is to:	•	
	(a) Winter	(b) Bear	(c) Dream	(a) Sleep	
Q18	'Reading' is re	elated to 'Knowledge	' in the same way as	'Work' is related to:	
	(a) Money	(b) Employm	nent (Experience	ce (d) Engagement	
Q19	Read the following paragraph carefully and answer the question given below it.				
	Though the waste of time or the expenditure on fashions is very large, yet fashions have come to stay. They will not go, come what may. However, what is now required is that strong efforts should be made to displace the excessive craze for fashion from the minds of these youngsters.				
	The passage best supports the statement that:				
	(b) The exce The hoad developm	ard for fashion sho nent	nion is detrimental to outline uld be done away	one's personality with so as not to let down the constructive	

Q20	The absence of	f law and order is:		-	
	(a) Rebellion	(b) Anarch	y (c) Mutiny	(d) Revolt	
Instruction	assume eve	erything in the state h of them logically	ement to be true, the	o conclusions numbered I are consider the two conclusions as a consider the two conclusions are the conclu	sions together and
Q21				welcomed the amendment arassment at the work place	
	I Sexual h	arassment of womed countries.	en at work place is i	more prevalent in India as	compared to other
	II Many organizations in India will stop recruiting women to avoid such problems.				
	(a) Only concluded Neither I n		(b) Only conclus (d) Both I and II		
Q22			eves economic equal	ity, political freedom and de	mocracy would be
	meaningless. Conclusions:				
	Political freedom and democracy go hand in hand				
	II Economic	c equality leads to	real political freedom	and democracy	
	(a) Only conclu (c) Either I or		(d) Both I and II		
Q23	A and B togetl amount does A	ner have Rs. 1545 have?	i. If 4/15 of A's amo	unt is equal to 2/5 of B's a	mount, how much
	(a) Rs. 618	(b) Rs. 881	√ (c) Rs. Q 27	(d) Rs. 664	
Q24	In a mixture of 6 of water to be for	30 litres, the ratio ourther added is:	of milk and water is 2	: 1. If this ratio is to be 1 : 2	, then the quantity
	(a) 20 litres	(b) 30 litres	(c) 40 litres	(d) 60 litres	
Q25		are 8 yellow, 7 blu is neither yellow n		One ball is picked up rand	lomly. What is the
	$\sqrt{a} \frac{1}{2}$	(b) $\frac{6}{10}$	(c) $\frac{7}{19}$	(d) ⁸	
Q26	An error 2 % in	10	17	de of a square. The percen	tage of error in the
	(a) 2 %	(b) 2.02 %	(c) 4 %	(d) 4.04 %	
Q27	In a certain stor	re, the profit is 320 ant, approximately v) % of the cost. If the what percentage of the	e cost increases by 25 % but e selling price is the profit?	ut the selling price
	(a) 30 %	(b) 70 %	(c) 100 %	(d) 250 %	
Q28	A and B can do a work in 8 days, B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in :				
	(a) 4 days	(b) 6 days	(e) 8 days	(d) 12 days	
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Which of the following diagrams indicates the best relation between Examination, Questions and Practice?

 \sqrt{a} ∞ (b) 0 (c) 0 (d)

The bar graph (Fig. 1) shows the percentage distribution of total expenditures of a company under various expense heads during 2015.

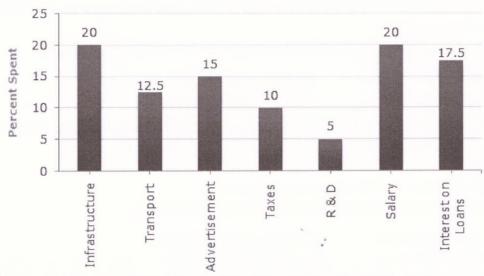


Fig. 1: Distribution of Total Expenditure (%) of a Company

Answer Q 30 to Q32 are based on this

Q30 What is the ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans?

(a) 5:4

(b) 8:7

(c) 9:7

(0) 13:11

Q31 If the interest on loans amounted to Rs. 2.45 crores then the total amount of expenditure on advertisement, taxes and research and development is?

(a) Rs. 7 crores

(b) Rs. 5.4 crores (c) Rs. 4.2 crores (d) Rs. 3 crores

Q32 The expenditure on the interest on loans is by what percent more than the expenditure on transport?

(a) 5%

(b) 10%

(c) 20%

(d) 40%

Read the paragraph carefully and answer the questions based on this in Q 33-Q 37:

Speech is great blessings but it can also be great curse, for while it helps us to make our intentions and desires known to our fellows, it can also, if we use it carelessly, make our attitude completely misunderstood. A slip of the tongue, the use of unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated may strike an uneducated listener as pompous. Unwittingly, we may use a word which bears a different meaning to our listener from what it does to men of our own class. Thus speech is not a gift to use lightly without thought, but one which demands careful handling. Only a fool will express himself alike to all kinds and conditions to men.

Q33	The best way to win a friend is to avoid:				
	(a) Irony in speech	(b) Pomposity in speech	ĺ		
	(c) Verbosity in speech	(d) Ambiguity in speech			
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Q34	While talking to an uneducated person, we should use:				
		b) His vocabulary			
	(c) Simple words (c)	d) Polite language			
Q35	If one used the same style of language with everyone, one would sound:				
	(a) Flat (b) Boring	(Foolish	(d) Undemocratic		
Q36	A 'slip of the tongue' means something said:				
	(a) Wrongly by choice	(b) Unintentiona	ally		
	Without giving proper thought	(d) To hurt and	other person		
Q37	Speech can be curse, because it can:				
	(a) Hurt others	(b) Create enemie	es		
	Create misunderstanding	(d) Reveal our to			
Q38	Change to passive voice.				
QUU	Who is creating this mess?				
	By whom is this mess being created? (b) By whom has this mess been created?				
	(c) By whom this mess is being created?				
	(d) Who has been creating this n				
Q39	Cayaha alwaya the norminaian	of hor fother before as	in a few manufact		
QUU	Saysha always the permission		-		
	(b) Sought	(c) Is seeking	(d) Seeked		
Q40	Choose the option which best expresses the given sentence in Indirect speech.				
	The little girl said to her mother, "Did the sun rise in the East?"				
	(a) The little girl said to her mother that the sun rose in the East				
	The little girl asked her mother if the sun rose in the East (c) The little girl said to her mother if the sun rises in the East				
	(d) The little girl asked her mothe				

