Number of English M.C. Questions: 45

Questions on Page Numbers 1 to 10

Vocabulary and Grammar

Q 1-5 Fill in the blanks with suitable words given at the right side of the text

This view of the nature of discovery has, I suspect, deep roots in the nature of scientific community. One of the few historical elements recurrent in the textbooks Q1) which the prospect scientist learns his field is the attribution of particular natural phenomena to the historical personages Q2) first discovered them. As a result of this and other aspects of their training, discovery becomes for many scientists an important goal. To make a discovery is to achieve one of the closest approximations to a property right that the scientific career affords. Professional prestige is Q3) closely associated with these acquisitions. Small wonder, then, that acrimonious disputes about priority and independence in discovery have often marred the normally placid tenor of scientific communication. Even less wonder how many historians of science have seen the individual discovery as an appropriate unit with which to measure scientific progress and have devoted time and skill to determining what man made discovery at what point in time. If the study of discovery has a surprise to offer, it is only that, Q4)___the immense energy and ingenuity exceeded upon it, Q5)_ polemic or painstaking, scholarship has often succeeded in pinpointing the time and place at which a given discovery could properly be said to have been made.

Time Allowed: 50 Minutes

Negative Marking: Yes

Q1

- A) between
- B) whom
- C) from
- D) those

Q2

- A) that
- B) who
- C) which
- D) is

Q3

- A) suddenly
- B) surely
- C) rather
- D) often

Q4

- A) despite
- B) in fact
- C) therefore
- D) however

Q5

- A) either
- B) sometimes
- C) neither
- D) although

BY CROSSING THE CORRESPONDING LETTER ENGLISH M.C.Q'S

Q 6-15 Choose the best option (which are given on page 3)

Certain problems in psychological research require the experimenter to Q6) his career and scientific interests against the interest of his Q7) subjects. When such occasions arise the experimenter's stated objective frequently is to choose the best possible job with the least possible harm to his subjects. The experimenter seldom Q8) in more positive terms an indebtedness to the subject for his services, perhaps because the detachment which his functions require prevents appreciation of the subject as an individual.

Yet a debt does exist, even when the subject's reason for volunteering includes course credit or monetary gain. Often a subject participates unwillingly in order to satisfy a course requirement. These requirements are of a Q9)____ merit ethically, and do not alter the experimenter's responsibility to the subject.

Most experimental conditions do not cause the subjects pain or indignity, and are sufficiently interesting or challenging to present no problem of an ethical nature to the experimenter. But where the experimental conditions Q10) the subject to loss of dignity, or offer him nothing of value, then the experimenter is obliged to consider the reasons why the subject volunteered and to reward him accordingly.

The subject's public motives for volunteering include having an enjoyable or stimulating experience, acquiring knowledge, doing the experimenter a favor which may someday be Q11)____, and making a contribution to science. These motives can be taken into account rather easily by the experimenter who is willing to spend a few minutes with the subject afterwards to thank him for his participation, answer his questions, reassure him that he did well, and chat with him a bit. Most volunteers also have less Q12) ____, but equally Q13)____, motives. A subject may be seeking an opportunity to have contact with, be noticed by, and perhaps confide in a person with psychological training. The dependent attitude of most subjects towards the experimenter is an artifact of the experimental situation as well as an expression of some subject's personal need systems at the time they volunteer.

The dependent, obedient attitude assumed by most subjects in the experimental setting is Q14)____, to that situation. The "game" is defined by the experimenter and he makes the rules. By volunteering, the subject agrees Q15)____ to assume a posture of trust and obedience. While the experimental conditions leave him exposed, the subject has the right to assume that his security and self-esteem will be protected.

		. /	
Q6			
	A) organize		The state of the s
	B) regulate	1	
	C) balance	Q11	
	D) develop		
			A) revoked
Q7		12 1	B) reciprocated
	A) current		C) assured
	Attended		D) assumed
	B) prospective	-010	
	C) reliable D) natural	Q12	
	D) natural	100	A) substantiate
Q8		Marie Control	B) signify
100			C) manifest
	A) studies		D) argue
	B) concludes		
	C) perceives	Q13	
	D) considers		N
00		. Me	A) pertinent
Q9			B) sequential
1	A) questionable		C) established
	B) logical		D) legitimate
	C) affordable	Q14	
	D) reasonable		
			A) appropriate
Q10			B) justified
	A) relate	1	C) associated
	B) deter		D) concluded
	C) subject	015	
	D) expose	Q15	
	D) expose		A) enthusiastically
			B) explicitly
		900	C) subtly

Q 16-25 Select the best option

- Q16 In August my parents will be married for twenty-five years.
 - A) will be married for twenty-five years
 - B) shall have been married for twenty-five years
 - C) will have been married for twenty-five years
 - D) will be married for twenty five years
- Q17 The Diary of Anne Frank showed a young girl's courage during two years of hiding.
 - A) showed a young girl's courage
 - B) shows a young girl's courage
 - C) did show a young girls courage
 - D) has shown a young girl's courage
- Q18 The fact that boxing is known to cause head injuries and brain damage should lead us to inform the public and push for a ban on boxing.
 - A) should lead us to inform
 - B) could lead us to inform
 - C) should of led us to inform
 - D) will lead us to inform
- Q19 Still, the fact that a planet exists outside our solar system encourages hope that other solar systems exist, and in them, perhaps, a planet that does support life.
 - A) that a planet exists outside our solar system encourages hope that other solar systems exist, and
 - B) that a Planet exists out side our solar system encourages hope that other solar systems exist and
 - C) could be that a planet exists outside our solar system encourages hope that other solar systems exist, and
 - D) that a planet exist outside our solar systems encourage hope that other solar systems exist, and
- Q20 If he would have read "The White Birds," he might have liked William Butler Yeats's poetry.
 - A) would have read
 - B) could have read
 - C) would of read
 - D) had read

- Q21 The circus <u>audience received a well-deserved</u> round of applause for the perfectly timed acrobatic stunt.
- A) audience received a well-deserved
- B) audience gave a well deserved
- C) audience did receive a well deserved
- D) audience gave a well-deserved
- Q22 Looking directly at me, my Mother said, "These are your options: the choice is yours."
- A) Mother said, "These are your options: the
- B) Mother said- these are your options, the
- C) Mother had said, These are your options; the
- D) Mother said, "These are your options; the
- Q23 As a result of his method for early music education, Shinichi Suzuki has been known as one of the world's great violin teachers.
- A) has been known as one
- B) had been known as one
- C) is seen as one
- D) is being seen as one
- Q24 Neither of the Smith brothers expect to be drafted by a major league team this year.
- A) expects to be drafted
- B) has expected to be drafted
- C) is expecting to be drafted
- D) was expecting to be drafted
- Q25 Last night the weather forecaster announced that this is the most rainy season the area has had in the past decade.
- A) this has been the most rainy season the
- B) this was the most rainy season the
- C) this is noted as the most rainy season the
- D) this is the rainiest season the
- Q 26-35 Select the best option.

Q26 infamy

- A) honor
- B) bad reputation
- C) words of praise
- D) opponent

Q27 divestiture

- A) greed
- B) mercy
- C) resemblance
- D) unclothe

Q28 contentious

- A) perfectly clean
- B) objective
- C) courageous
- D) quarrelsome

Q29 depredation

- A) plundering
- B) villain
- C) insincere
- D) self criticism

Q30 impolitic

- A) separate
- B) improper
- C) unwise
- D) disagree

Q31 insularity

- A) island like
- B) harshness
- C) accessories
- D) ornamented

Q32 corpulence

- A) no longer existing
- B) obesity
- C) omission of words
- D) describe

Q33 bigoted

- A) intolerant
- B) selfish
- C) generous
- D) ignorant

Q34 execrate

- A) retort
- B) boredom
- C) something new
- D) curse

Q35 annihilate

- A) causing plague
- B) use of force
- C) destroy
- D) profitable

For Q36 and Q37 consider the following information:

A scientific study compared two matched groups of college women. The women in both groups were presented with information about the benefits of a healthy diet and regular exercise. The women in one group were paired up with one another and encouraged to work as two-person teams to help each other stick with the recommended healthy regimen of smart eating and regular vigorous exercise. The women in the other group were encouraged to use the same recommended regimen, but they were also advised to work at it individually, rather than with a partner or teammate. After 50 days the physical health and the well-being of all the women in both groups were evaluated. On average the women in the first group (with teammates) showed a 26 point improvement in measures of cardiopulmonary capacity, body strength, body fat reduction, and sense of well-being. On average the women in the other group (encouraged to work as individuals) showed a 17 point improvement on those same measures. Using statistical analyses the researchers determined that the probability that a difference of this size had occurred by chance was less than one in 1000.

Q36 If true, these research findings would tend to support which of the following assertions?

- A) A college woman cannot achieve optimal health functioning without a teammate.
- B) Universities should require all students living in campus residence halls to participate in a health regime of smart eating and regular vigorous exercise.
- C) A healthy diet will cause one to have better mental health and physical strength.
- This research study was funded by a corporation that makes exercise apparel.

Q37 Consider the claim, "Working with a teammate or partners on a health regimen is better than working individually." Which of the following additional pieces of information would **not** weaken that claim?

- A) Most of the women in the group that was encouraged to work individually actually worked with friends and partners who were not part of the study.
- B) Most of the pairings and teams created in the first group (with teammates) fell apart after a few days and the women in that group actually worked individually.
- C) There was something about the women in the first group (with teammates) that the researchers overlooked, thus invalidating the intended matching of the two groups.
- D) Men are more likely to work alone, so any recommendation that men find a teammate or partner to support them in sticking with the regimen will be ignored.

Q38 Three graduate school friends, Anna, Barbara, and Carol, graduated successfully. Being in the same program, the three often worked as a team on group assignments. Anna earned the special recognition of "pass with distinction" when she graduated. Carol and Barbara, although

receiving their degrees, did not earn this special honor. A fourth student in the same graduate program, Deirdre, often said that the graduate program was poorly designed and not difficult at all. Deirdre did not graduate, instead she was advised by the faculty to withdraw from the program because her work was below acceptable standards. Given this information only, it follows that

A) Carol and Barbara deserved to receive "pass with distinction" like Anna.

B) Barbara's work in the program was superior to Carol's.

- C) Deirdre's work in the program was below the quality of Carol's work.
- D) Anna, being successful, will decide to enroll in another advanced graduate program

Q39 "I've heard many reasons why our nation should reduce its reliance on petroleum vehicle fuels. One is that relying on imported oil makes our economy dependent on the political whims of foreign rulers. Another is that other energy sources, like the possibility of hydrogen based fuels, are less harmful to the environment. And a third is that petroleum is not a renewable resource so when we've used it all up, it will be gone! But I don't think we're likely to use it all up for at least another fifty years. And by then we'll have invented new and better fuels and more fuel-efficient vehicles too. So that argument doesn't worry me. And I don't really believe the stuff about how foreign leaders can force our nation to change its policies simply by decreasing their oil production. Oil companies like Exxon have made record profits precisely in those times when the supply of foreign oil was reduced. I don't see the big oil companies being very interested in policy change when the money is rolling in. And for another, our nation has demonstrated that it is willing to wage war rather than to permit foreign leaders to push us around. So this whole thing about how we have to reduce our reliance on petroleum based gasoline, diesel, and jet fuel is bogus." The speaker's reasoning is best evaluated as

- A) It shows the arguments for reducing petroleum vehicle fuels are weak
- B) The speaker is very clear about what he believes and why he believes it.
- C) The speaker probably owns stock in Exxon or some other oil company.
- D) The speaker ignored the environmental argument entirely.

Q40 Using the phone at her desk, Sylvia in Corporate Sales consistently generates a very steady \$1500 per hour in gross revenue for her firm. After all of her firm's costs have been subtracted, Sylvia's sales amount to \$100 in bottom line (net) profits every 15 minutes. At 10:00 a.m. one day the desk phone Sylvia uses to make her sales calls breaks. Without the phone Sylvia cannot make any sales. Assume that Sylvia's regular schedule is to begin making sales calls at 8:00 a.m. Assume she works the phone for four hours, takes a one hour lunch exactly at noon, and then returns promptly to her desk for four more hours of afternoon sales. Sylvia loves her work and the broken phone is keeping her from it. If necessary she will try to repair the phone herself. Which of the following options would be in the best interest of Sylvia's firm to remedy the broken phone problem?

- A) Use Ed's Phone Repair Shop down the street. Ed can replace Sylvia's phone by 10:30 a.m. Ed will charge the firm \$500.
- B) Assign Sylvia to a different project until her phone can be replaced with one from the firm's current inventory. Replacing the phone is handled by the night shift.
- C) Authorize Sylvia to buy a new phone during her lunch hour for \$75 knowing she can plug it in and have it working within a few minutes after she gets back to her desk at 1:00 p.m.
- D) Ask Sylvia to try to repair her phone herself. She will probably complete the repair by 2:00 p.m.; or maybe later.

Reading Comprehension

Q 41-45 Carefully read the following passage and answer the accompanying questions

Today, the educational value of appealing to the eye as well as to the ear has been fully recognized, and the lack of suitable materials which has in the past been a handicap to visual education is being made good. The exhibition is one important medium for visual education that has gained greatly in popularity of recent years. Exhibitions may range in subject from the purely practical—such as those sponsored by some authorities for health and housecraft demonstrations-to collections of artistic and historical interest like those circulated by the Victoria and Albert Museum. A natural focus for this particular form of education through the eye is the local museum. Museums and galleries are indeed, playing an increasingly important part in the educational life of their localities; and possibly their greatest contribution can be made in the field of adult education. If they are valuable as a base for the display of material supplied from outside sources, they have a more important function in fostering local distinctions and traditions of all kinds. This they can do by their permanent collections, by special exhibitions shown on their own premises, or by traveling exhibitions circulated to other centers in the locality-for example, to colleges of further education or to community centers. An outstanding value of the exhibition method is that it does not provide instruction only, but by the display of works of craftsmanship and art it gives training in appreciation, a sense of quality and individual character.

Another most important medium for visual education is the cine-film, and at the present time the supply of specially produced educational films is being rapidly increased. The film, like the exhibition, is well adapted for the demonstration of practical activities and skills of all kinds, and to the communication of cultural ideas and values. But it has a further distinctive contribution of particular importance in education. Owing to the exceptionally strong emotional impact of the cinema, films dealing with controversial topics—as, for example, the whole range of modern social questions—can be relied upon to provoke discussion and arouse interest in current problems. There are now a number of sources for educational films. In addition to the well-known commercial film libraries, there is the Central Film Library, where officially sponsored films are available; and the National Film Library run by the British Film Institute, with its large historical collection of films of all kinds and all periods.

Mention should also be made of the <u>humbler</u> filmstrip, which consists of a series of pictures printed on lengths of cine-film and projected like miniature lantern slides. Being cheap and easily handled, they are an ideal means for illustrating informal demonstrations and lectures. These are already obtainable for a wide range of subjects from several <u>commercial producers</u>, and are likely to be supplied in increasing number from <u>public sources</u>. For those who still prefer the ordinary lantern slide, the largest and most accessible public collection is that of the Victoria and Albert Museum.

Q41 Give the meaning of natural focus

- A) artistic landscapes
- B) convenient centers
- C) social gatherings
- D) ordinary surroundings

Q42 Distinguish between "instruction" and "training in appreciation".

- A) "Instruction" refers to the imparting of knowledge, information, facts, while "training in appreciation" denotes teaching a sense of values and an ability to discriminate. Exhibitions provide instruction in that they impart knowledge, convey information, demonstrate facts and activities and skills. They also provide training in appreciation in that they teach the capacity to judge values, to distinguish between what is good and what is bad in art and craft, to appreciate good quality and fine character
- B) "Training in appreciation" refers to the imparting of knowledge, information, facts, while "instruction" denotes teaching a sense of values and an ability to discriminate
- C) "Instruction" refers to the creation of material and documents, while "training in appreciation" overlooking faults and establishing ideas
- D) "Instruction" refers to performance and appreciation, while "training in appreciation" denotes criticism and feedback

Q43 What advantage for educational purposes has the film over the exhibition?

- A) The exhibition is more potent than the film because, it captures and retains the interest in a way that a static picture cannot do
- B) The film is more potent than the exhibition, for its movement and its action endow it with a strong emotional force
- C) The exhibition is more potent than the film because it captures and retains the interest in a way that a static picture cannot do
- D) The film is more potent than the exhibition because it lacks controversy and argument

Q44 Why is the adjective "humbler" applied to the filmstrip?

- A) The filmstrip is humbler than the film because it consists of a series of static pictures whereas the film has continuous movement
- B) The filmstrip in humbler than the film because includes the narrative power and emotional force of the film
- C) The filmstrip is also humbler than the film because it is very expensive and elaborate
- D)The filmstrip is also humbler than the film because consists of movement and emotions

Q45 Explain the difference between "commercial producers" and "public sources" of filmstrip.

- A) "Commercial producers" refers to companies who produce film strips for non-profit, "public sources" refers to private companies who produce film-strips for profit
- B) "Commercial producers" are in the business because they are public bodies and "public sources" do not sponsor or produce films
- C) "Commercial producers" make films for public exhibition free of charge," public sources" make films to charge exorbitant expenses
- D) "Commercial producers" refers to private companies who produce film-strips for profit; "public sources" denotes public bodies who produce films on a non-profitmaking basis

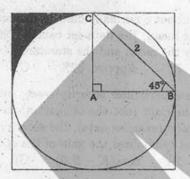
ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET BY CROSSING THE CORRESPONDING LETTER MATHEMATICS M.C.Q's Number of Maths M.C. Questions: 50

Time Allowed: 65 Minutes

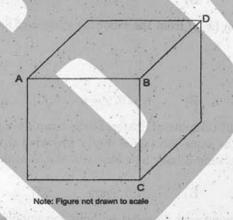
46. Determine x:

		$\frac{3}{5} - \frac{2}{7}$ $\frac{2}{3} \times \frac{3}{5}$	$\frac{\times \frac{1}{3}}{-\frac{1}{2}} \div -\frac{2}{3}$	= x		A	Questio		Numbers 11 to 18 tive Marking; Yes	
	A)	x	$=-\frac{33}{14}$	B)	$x = -\frac{22}{21}$	C)	$x = \frac{53}{7}$	D)	$x = \frac{33}{14}$	
7.	Point	t out th	e flaw in t	he followin	g arithmetic ev	olution:				
			1 = 5		1		(hypothesis	1		(1)
			5 = 5 - 4.	5	-		(L) Position	,		(2)
			5 = 0.5							(3
	-	(-0.5)	$^{2} = (0.5)^{2}$		-			4		(4
			5 = 0.25			(hypoth	nesis proves true			(5
	A) B) C) D)	Evolu	tion from	statement ((1) to statement (2) to statement (3) to statement (4) to statement	(3) is flat (4) is flat	wed. wed.			
8.	Dete	rmine x	in the for	m of a sim	ple fraction.		100			7
4	4	0.3333	$\frac{1}{3} = \frac{1}{3y}$							
	11		$x = \frac{1}{2}$	D)	1	(1)		nı	3	
	A)	1	•	B)	$x = \frac{1}{9}$	C)	$x = \frac{1}{0.33333}$	D)	$x = \frac{3}{0.333333}$	
9.	to th	ree, wh	ile that o	THE RESERVE THE PERSON NAMED IN COLUMN	toads is eight t				salamanders is of	
	A)		119	B)	152	C)	76	D)	171	
	forkli	ifts to d	CONTRACTOR .						io of battery drivicles are bulldoz	
1.	700000	ng an a learest i		times by 25	% results in 50	0. What	was the original	amount w	hen rounded off	to
	A)		300	B)	100	C)	256	D)	205	
2.	of tru	ıncation	is to arr	ange the da	ata-set in order,	and then	to remove 10%	of the ori	The usual meth ginal data-set fr 9, 4, 90, 0, 5, 3, 4, 5.500	on
3.	from ensur per y	now, as re that see con her last	nd at the she meets	end of each the expens semi-annu	semi-annual p ses of her baby's	eriod cons s early sch	secutively for 2 y nooling. Interest	years (from	regining six mon n now), in order at the rate of 1 n now, immediat Rs. 2500.00	6%
4.	What	t amou	nt should	be invested	today at 14%	interest co	ompounded annu	ally in or	der to have it gr	ov
	to Rs		.00 in 2 y	ears? B)	Rs. 7694.67	C)	Rs. 7812.50	D)	Rs. 7500.00	
5.	An or The c the e down organ	rganization of the payment of the payment of Rs. 60	tion has a ation will at next tw at, and the 's bank ac	car financi pay for the o years. The other as in ecount and	ng scheme in pl e car but plans e return plan constallment at th will earn an int	ace for its to earn 1 onsists of the end of the	employees, in c 5% simple inter- two equal yearly he current year.	lose coope est on the payments This will apounded	ration with a base price only once instantane be deposited in annually. If the 290000.53	ou th
100							15	r. Th	Novt Page	

56.	An emperical observation about a normally distributed quantitative data-set is that 68% of 1 standard deviation of the mean. If a data-set contains 200 numerical observations, what them would be larger than the mean and the standard deviation added together? A) Approx. 34% B) Approx. 32% C) Approx. 16% D) Approx.	of it lies within t percentage of oprox. 17%
57.	A call option is drawn on a particular security asset, such that three months from now the call option will have the right (not the obligation) to buy the security for (the strike If at the end of three months (exercise date), the security has the market value (the spot determine which expression symbolizes the gain of the option buyer. A) $\max(S-K,0)$ B) $\max(K-S,0)$ C) $\max(S-K,K)$ D) $\max(S-K,K)$	price) Rs. K. t price) Rs. S,
58.	A particular share is half the price of a forex security. This forex security costs four times a particular real estate bond. It is anticipated that by the year 2015, the price of the share 20% and become Rs. 600.00. Determine the price of the real estate bond. A) Rs. 300.00 B) Rs. 400.00 C) Rs. 350.00 D) F	are will rise by
59.	$\frac{2}{x-3} = \frac{x-3}{2}$	
	x may be: A) -5 B) 1 C) ±2 D)	-1
60.	Determine the solution (x, y) from the following system of linear equations.	
	2x - 3y = 4 $4x - 6y = 7$	
A	A) $x = 2, y = 3$ B) $x = 0, y = 0$ C) $x = 1/2, y = -1$ D)	lo solution
61.	In a particular Beowulf computing cluster, Node-1 can do a job in 3 hours (in isolation), takes 6 hours to do the same job (same way). Provided that all features of the job can in parallel (i.e., at the same time), how long will the job take to conclude if the two nod simultaneously? A) 1.5 hours B) 2.5 hours C) 2.8 hours D)	n be performed
	A passenger train moving over 45 miles an hour -on applications of emergency brakes- minutes before dead stop. Consider two passenger trains heading towards the same crossin courses due to a drawbar malfunction. Train A is 9 miles from the crossing and headin 100 mph, while Train B is just 4 miles off and moving at 50 mph. Due to their lengths/s requires 1 minute and Train B requires 2 minutes to clear off from the crossing completely A railway personnel senses troubles, and intends to ask one of the train drivers to apply en immediately. Is collision possible, if so, can it be averted, and if so, which train should b brakes? A) Collision will not occur, the trains may continue. B) Collision possible, aversion possible, Train A should be asked to stop. C) Collision possible, aversion possible, Train B should be asked to stop. D) Collision possible, aversion only possible, if both trains are asked to stop	g from opposite ag towards it at speeds, Train A upon approach. nergency brakes be told to apply
63.	Azhar has set up a small photostat business. He purchased a used grayscale machine. The paper will get stuck in the machine is one in ten. The chance that the machine will not still render a bad copy is three in ten. What is the chance that a particular photocopy of A $\frac{1}{10}$ B $\frac{1}{5}$ C $\frac{3}{10}$ D	t eat paper, but
64.	A motorbike retailer wants to conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test on his existing stock of motorbikes conduct a road test of the road	passes the test, tes are drawn at
	second a Yamaha? A) $\frac{2}{5}$ B) $\frac{12}{95}$ C) $\frac{3}{25}$ D)	7 10
65.	A 5-letter word has to be made from a pool containing 9 distinct letters. A word has combination of letters appearing without repetition. This 5-letter word may be per ways. If only 3500 of these words make literal sense, find the probability that a given magningless.	muted in many
	meaningless. A) 0.77 B) 0.23 C) 0.50 D)	0.44
66.	. What is the area of the shaded region in the following figure?	des 5

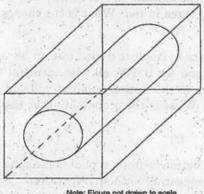


- 1) $\angle ABC = 45^{\circ}$.
 - 2) $\overline{BC} = 2$ cm.
 - Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
 - B) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
 - C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
 - D) EACH statement ALONE is sufficient.
- 67. What is the volume of the following regular cube?

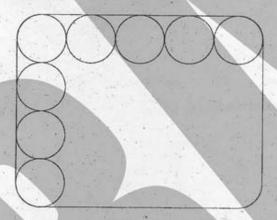


- 1) $\overline{AB} = 4$ cm.
- 2) $\overline{BC} = \overline{BD} = 4$ cm.
- Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
- B) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient. cient.
- D) EACH statement ALONE is sufficient.
- 68. A pen costs 3 times as much as a pencil and half as much as a fancy marker. Determine the cost of the marker if the cost of the pencil is Rs. 5.00.
 - Rs. 20.00
- B)

- Rs. 30.00 C) Rs. 50.00 D) Rs. 40.00
- 69. What is the volume bounded between the cylinder and the rectangular cube?

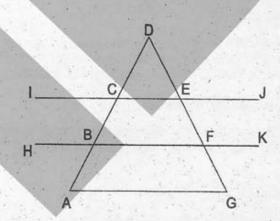


- 1) The diameter of the cylinder is half the breadth of the cube, which is 5 cm.
- 2) The length of the cyclinder is twice the depth.
- A) Statements (1) and (2) TOGETHER are not sufficient.
- B) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
- C) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
- D) EACH statement ALONE is sufficient.
- 70. What is the total area of the rectangular figure with rounded corners?

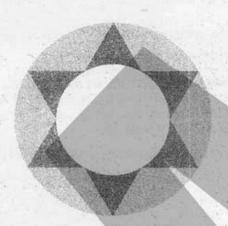


- 1) The length and the breadth of the rectangular figure is 8 and 10 cm respectively.
- 2) The radius of the small circles is 1 cm.
- A) Statements (1) and (2) TOGETHER are not sufficient.
- B) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
- C) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
- D) EACH statement ALONE is sufficient.

71. Is ∠ICD ≅ ∠EFK?

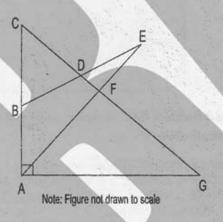


- 1) The straight lines are parallel, and the triangle is isosceles.
- 2) The straight lines are parallel, and the triangle is equilateral.
- A) Statements (1) and (2) TOGETHER are not sufficient.
- B) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
- C) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
- D). EACH statement ALONE is sufficient.
- 72. The diameter of the larger circle is 7cm. This circle is 1.5 times larger than the smaller one. Find the approximate area bounded by the two circles.

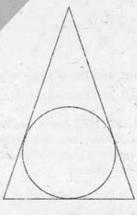


- $10.29\pi \text{ cm}^2$
- B)
 - $15.30\pi \text{ cm}^2$
- $9.5\pi~\mathrm{cm}^2$
- D). $28\pi \text{ cm}^2$

73. What is the measure of the (angle) LAGC?



- 1) $\angle EFG = 90^{\circ}$ and $\overline{AB} = \overline{BC}$
- 2) $\angle EFG = 90^{\circ}$ and $\overline{AF} = \overline{FC}$.
- A) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
 B) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
- BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D) EACH statement ALONE is sufficient.
- 74. What is the area of the triangle given below, provided that the circle is half as tall as the triangle, and the base of the triangle is 2.5 times the radius of the circle which is 2.5cms?



- 30cm^2
- B)
- 31.25cm^2
- C) $10.25 \mathrm{cm}^2$
- D) $35.50 \, \mathrm{cm}^2$
- 75. What is the probability that 3 winning balls (red in color) will be blind selected in a draw game?
 - 1) The draw bag contains 5 red, 4 blue, and 6 yellow balls.
 - 2) The winning balls have half the chance of getting selected, as the other balls.

Both statements TOGETHER are sufficient, but neither statement alone is sufficient.

C)

A) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient. Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.

76. What is the probability of drawing a 10 on a standard deck of well shuffled playing cards?

BOTH statements TOGETHER are NOT sufficient.

B)

C)

D)

 $\frac{1}{13}$

77. Wh	at is the value of:	Sant Sant	1000				the profession is
	$\frac{x^3y^2 + y(x^2 - 1)}{y(x^3 + (x^2 - 1))}$		1	- 1000	and the se	to salis	
1)	x = 5.		M. some				
2)	x > y.		The state of the s		The second		Military a series
A) B) C) D)	Statement (2) AI BOTH statement	ONE is suffice TOGETHE	ient, but Star R are NOT s	tement (1) I ufficient.	ALONE is n	ot sufficient	
78. Is x	positive?		TO DESCRIPTION OF THE PERSON O	Ind , replain			4
1)	$x^3y > 0, y < 0$	Carlo		200 Milator			100 mm
4.4.1.2	$x^2y > 0, y > 0$			India Miles			18721-11 1179
A)	Statement (1) AT	OME is a.m.	100	method (see			1
B) C) D)	Statement (1) AL Statement (2) AL BOTH statements Both statements	ONE is suffici	ent, but Stat R are NOT st	ement (1) A ufficient.	ALONE is no	ot sufficient.	Islanda o Tar
79. Dete	rmine the perimeter						
	The triangle has a	Vancoti mini			a vince bides	ineasurable	m megers:
	The triangle has a	The second second	d the length	of the eide		Cinte pacin	
 CORRESPONDED 	CONTRACTOR OF THE PARTY OF THE	7					n 10 units.
A) B) C) D)	Statement (1) AL Statement (2) AL BOTH statements Both statements 7	ONE is suffici TOGETHER	ent, but Stat are NOT su	ement (1) A	LONE is no	ot sufficient.	cient.
80. An e	mergency fill of a pa	THE RESERVE OF THE PERSON NAMED IN	7-01 THE R. P. LEWIS CO., LANSING, MICH.				
the c	lam was half filled. dy at one sixth of it 100 MGAL	s capacity fro	total capacity	, if the filli lls?	ng started a	at 13h00, wl	nen the dam was
	average of three per		200	MARKET PARTY		D)	400 MGAL
1 1 1 1 1 1		V220	250	or. what ar	e the number	ersí	
THE RESERVE THE PARTY OF THE PA	Adding the number	Control of the Contro		or ten best	from whatball	di salami	
4)	The square roots of	the numbers	are all less th	an 12.	Septiment The	cody, Eleber	Value of
A) B) C) D)	Statement (1) ALC Statement (2) ALC BOTH statements EACH statement	ONE is sufficie TOGETHER	ent, but State are NOT su	ment (1) A	LONE is no LONE is no	t sufficient. t sufficient.	n n nakan: K nga mena Gregoriasia Menakana
chance lives a	ttery manufacturer tion is 10 months. e that the manufacture are normally distrib	urer's claim is	r battery cho	sen at ranc	om lasted o	mly 37 mor	the what is the
A)	2.5%	B) 9	7.5%	C)	4%	D)	5%
A) B) C)	$a = \frac{9}{4}, b = \frac{3}{2}, c = \frac{3}{2}, c = \frac{4}{2}, c = \frac{4}{3}, c = \frac{4}{3}, c = \frac{8}{2}$	1 /9 /9	b is c. Moreo	over, 2(c ² —	1)=c+1.	What are the	ne values of a , b ,
D)	a = 4/9, b = 8/27, c =	10/81		S DECOME.		SK S Signal A	A A
1	A real array matrix	and district of		Land of the second	(Go on	To The N	ext Page)

84.	Rs. 10000.00 is invested in quarterly. If all interest is A) Rs. 10200.00	a savings bank left in the bank B) Rs. 1040	account wh	at will the a	the rate of account balar 0824.32	ice be after	compounded 6 months? 10612.08
85.	A heavy vehicle manufact vehicles among which were of tractors and trucks sold tractors did the company s	5000 trucks and this year compar	1 2000 digge	ers. The per	centage incr	ease in the c	ombined sale
	A) 5000	B) 2000	0 (3)	000	D)	4000
86.	A year is classified as a l A particular year divisible classified as a leap year. Is	both by 4 and	100 must a	sts, if 4 div	ides it comp oletely divisi	letely and 1 ble by 400 is	00 does not.
	1) Year A was found to	be completely d	ivisible by 4	and 100.	au look	NOT SEE	
	2) Year A was found to	The second secon		- Committee of the Comm	1000 20	1017	
	The Carting and Ca		Chroces		NIE is not or	Malant	
	A) Statement (1) ALO: B) Statement (2) ALO: C) BOTH statements T D) EACH statement A	NE is sufficient, TOGETHER are	but Statem NOT suffic	ent (1) ALC			4
87.	A young man walking from department takes strides a embarked on the same ro- man. How far is the depart	/4 of a meter. H	is rate of w de only hal	valking is 2 f a meter lo	meters every ong, but wall	second. A	young woman
	No.			The Paris	De Book	110 11/20	ermanch de
	1) They reach the depar		STATE OF THE PARTY			1	
	2) The woman started h		AND DESCRIPTION OF THE PERSON NAMED IN	1 1000	and the W	I California Tital	
	A) Statement (1) ALO B) Statement (2) ALO C) BOTH statements D) EACH statement A	NE is sufficient, FOGETHER are	but Statem NOT suffi	ent (1) ALC			
88.	The average temperature is temperature for the year	n the Netherland over there, if it i	ls stays at 1 is known th	5°C for 10 m at it is twice	nonths of the e as hot in J	year. What fuly and Au	is the average gust as in the
	other months? A) 17°	B) 17.5	5° (C)	18°	D)	20°
89.	. What is the value of the o	uadratic expres	sion $xy^2 - 3$	$2xy + x^2y -$	$xy(x^2+y^2)$	provided th	at x + y = 3,
100	x, y > 0 and x, y are both	integers?	S TOOL S	and the re-	en collina	AND IN FORM	Managar its
	A) -10	B) -8	3	C)	8	D)	7
90:	for pesky riders who want having a net worth of Rs. over Rs. 119.00 or slightly standard deviation for thi data is saturated within 2 A) 3.5%	to bargain furi 80.00, what is t under Rs. 91.00 s distribution is	ously over he approximately over the approxim	the money. nate chance wn that the Take it for g	If you hire a that you wo fares are no	taxi/Ricksl uld end up p mally distri	haw for a ride baying slightly buted and the
91	. The chance of a financial	institution maki	ng profit th	e first year	of its incepti	on in Pakist	an is 1/5. This
	chance becomes better by chance that a particular	3 percent each	of the nex	t 10 years ofit at all, p	and then sta	ys constant.	What is the
92.	200000.00. Each research as one professor to eight mean salary of Rs. 10000 provided that there are 1	group consists of researchers. H 0.00. What is th 5 secretaries?	of a professor alf of the g ne overall av	or and some groups also verage salar	researchers. have a very y of these th	The groups capable sec ee categorie	are organized retary, with a s of employees
	A) 216666.67%	B) 21052	26.31	C) 25	00,000	D) 2	25000.56
93	3. Prime numbers are positi factors other than 1 and	ve integers greathemselves. What	ter than 1, at is the val	which cam ue of the pr	not be broker ime number	n down into x ?	multiplicative
				(Go on To	The Nex	t Page)

- x is even.
- 2) x is odd.
- A) Statement (1) ALONE is sufficient, but Statement (2) ALONE is not sufficient.
- B) Statement (2) ALONE is sufficient, but Statement (1) ALONE is not sufficient.
- BOTH statements TOGETHER are NOT sufficient.
- EACH statement ALONE is sufficient,
- 94. A particular lump sum is invested at 20% per year compounded annually in a tax-free savings bank account. How long will it take the money to double its value?
 - A) Between 2 and 3 years.
 - B) Between 3 and 4 years.
 - C) Between 4 and 5 years.
 - D) 4 years.
- 95. Consider two linear equations in x and y. When this system is solved algebraically, it results in many solutions. Which of the following geometrical scenarios describes this algebraic situation most closely?
 - A) A common point is shared between the lines represented by the equations.
 - B) There is no common shared points between the lines represented by the equations.
 - C) The lines may be coincident (completely overlapping).
 - D) The lines represented by the equations may be parallel.

(Stop. Do not turn over this page- until you are told to do so)