



Section I - Language Skills

Directions for questions 1 to 4: Answer the following questions based on the passage given below.

At 26,000 feet (7,900 m), over Red Lake, Ontario, the aircraft's cockpit warning system sounded, indicating a fuel pressure problem on the aircraft's left side. Assuming a fuel pump had failed, the pilots turned it off, since gravity would still feed fuel to the aircraft's two engines. The aircraft's computer indicated that there was still sufficient fuel for the flight, but, as the pilots subsequently realized, the calculation was based on incorrect settings. A few moments later, a second fuel pressure alarm sounded, prompting the pilots to divert to Winnipeg. Within seconds, the left engine failed and they began preparing for a single-engine landing. As they communicated their intentions to controllers in Winnipeg and tried to restart the left engine, the cockpit warning system sounded again, this time with a long "bong" that no one present could recall having heard before. This was the "all engines out" sound, an event that had never been simulated during training. Seconds later, most of the instrument panels in the cockpit went blank as the right-side engine also stopped and the 767 lost all power.

In line with their planned diversion to Winnipeg, the pilots were already descending through 28,000 feet (8,500 m) when the second engine shut down. They immediately searched their emergency checklist for the section on flying the aircraft with both engines out, only to find that no such section existed. Captain Pearson, however, was an experienced glider pilot, which gave him familiarity with some flying techniques almost never used by commercial pilots. In order to have the maximum range and therefore the largest choice of possible landing sites, he needed to fly the 767 at the "best glide ratio speed". Making his best guess as to this speed for the 767, he flew the aircraft at 220 knots (410 km/h; 250 mph). First Officer Maurice Quintal began making calculations to see if they could reach Winnipeg. The aircraft had lost 5,000 feet (1,500 m) in 10 nautical miles (19 km; 12 mi), giving a glide ratio of approximately 12:1. The controllers and Quintal both calculated that Flight 143 would not make it to Winnipeg.

At this point, Quintal proposed landing at the former RCAF Station Gimli, a closed air force base where he had once served as a Canadian Air Force pilot. Unknown to him, however, part of the facility had been converted to a race track complex, now known as Gimli Motor sports Park. It included a road race course, a go kart track, and a drag strip. Furthermore, a CASC amateur sports car race was underway that day and the area around the decommissioned runway was full of cars and campers. Part of the decommissioned runway itself was being used to stage the race. As the runway drew nearer, it became apparent that the aircraft was too high and fast, raising the danger of running off the runway before the aircraft could be stopped. The pilots briefly considered executing a 360 degree turn to reduce speed and altitude, but came to the conclusion they did not have enough altitude for the manoeuvre. Pearson decided to execute a sideslip to increase drag and lose altitude. This manoeuvre is commonly used with gliders and light aircraft to descend more quickly without gaining forward speed. As soon as the wheels touched the runway, Pearson "stood on the brakes", blowing out two of the aircraft's tires. The unlocked nose wheel collapsed and was forced back into its well, causing the aircraft's nose to scrape along the ground. The plane also slammed into the guard rail now separating the strip, which helped slow it down.

- 1. According to the passage, what started the whole trouble with the aircraft, eventually resulting in a crash landing?
- a) The failure of both engines of the aircraft due to no fuel was what started all the trouble.
- b) The pump failed on the right side, thus causing the right side engine to shut down.
- c) The failure of left side due to fuel pressure problem, which resulted in the shutting down of left engine.
- d) The Boeing 767 lost all its controls, which led to them not being able to give commands accurately.





- 2. With regard to the intended landing at Winnipeg, which of the following is true?
- a) It was a bird hit that made visibility so poor that the 767 could not attempt reaching and landing at Winnipeg.
- b) Trouble started when in the middle of a smooth flight, all the instrumental panels in the cockpit warning system gave the "all engines out" sound.
- c) The first officer and the controllers, both estimated that they would not be able to reach Winnipeg.
- d) A 360 degrees manoeuvre is commonly used by all types of aircrafts to display manoeuvrability to other aircrafts.
- 3. What, according to the last part of the passage, was the main concern of the pilots when the aircraft was near the final intended landing area?
- a) The pilots had wrongly taken a 360 degrees turn to reduce speed, which had put them off track.
- b) The pilots did not know how to execute a sideslip, which was essential at this point to increase drag as soon as they would hit the land.
- c) The aircraft too high and moving too fast, that there was a real risk that it would not stop on the runway, but would go off it.
- d) The plane must not slam in to the guard rail, as there were buildings and commercial complexes as soon as the rail ended.
- **4.** According to the passage, what was Captain Pearson's advantage over the other pilot in the time of distress?
- a) He knew how to stand on the brakes to get the plane into control.
- b) He knew how to slow down the speed of the plane, to ensure a safe landing.
- c) He knew how to execute a drag and sideslip to control forward speed.
- d) He knew how to maintain the glide ratio speed as he was an experienced glider, something most commercial pilots did not have the skill for.





Directions for questions 5 to 8: The sentences labeled A, B, C, D form a coherent paragraph when arranged properly. Choose the best sequence form the options.

arranged properly. Cho	oose the best sequence f	orm the options.					
5. A. Body mistakes that protein in the food act as a dangerous invader and fights it by producing antibodies to neutralize the allergen.							
	an abnormal reaction be digestive system caus		system to an ingredient in the				
C. Food allergy is an particular food ingredie		ne body's immune syste	em to a protein molecule in a				
	en if the person is unab e in the body, which cau		food completely or there is a				
a) CABD	b) BADC	c) DACB	d) ABDC				
	s begins to harden and t		o focus on an object sets in by				
	d external factors affect l ons and age, the health o		d these include the size of the				
	uals require stronger liq ollowing good everyday e		the same clarity as younger matters.				
	ty of the lens increases, pear faded or washed ou		e and color vision gets altered, e disability.				
a) DACB	b) BADC	c) CBAD	d) ABDC				
7. A. Excess intake of sug	gar can cause serious he	ealth complications, besid	des obesity and diabetes.				
	ar and refined foods ac risk for diabetes, obesity		reas' ability to produce insulin,				
C. Sugar addiction is a	common problem but ur	nfortunately, most don't r	ecognize it.				
	kin troubles, impaired i e other health problems		s, nutritional deficiencies and eat excess sugar.				
a) ADBC	b) BDAC	c) DBAC	d) CADB				





8.A. Quite the contrary; it was considered fashionable and in vogue by many.								
B. Although true, this is a rather simplistic explanation for instance, forty years ago, cigarette smoking rarely produced feelings of guilt.								
C. Yet today, that same not noticed a change.	C. Yet today, that same smoker is likely to be filled with guilt, indicating that the moral code has still not noticed a change.							
D. Most dictionaries diviolation of one's moral		ative feeling of self-con	demnation, resulting from a					
a) ABDC	b) CDBA	c) DBAC	d) BDAC					
Directions for question	ns 9 to 12: Choose the v	word that best completes	the sentence.					
	ute mile Bannister broke rcome seemingly		and inspired thousands of					
a) insurmountable	b) inane	c) trivial	d) traumatic					
10. All good comic write behaviour.	ers use humour to	, not to side-step	the problems of human					
a) amuse	b) juxtapose	c) confront	d) solve					
	is an example of aers move them according		em: the pieces sit inertly on					
a) interactive	b) passive	c) cybernetic	d) disruptive					
12. After an initially ward thinkers, Bloom's work of		ewers and continued	by conservative					
a) criticism	b) endorsement	c) denigration	d) counterattack					
Directions for questions 13 and 14: Choose the option closest in meaning to the underlined word.								
13. For some people, pr	rocrastination can be per	sistent and tremendousl	y <u>disruptive</u> to everyday life.					
a) troublesome	b) inappropriate	c) complacent	d) agnostic					
14. lodized salt is a salt	which has been fortified	with the essential traces	s of mineral iodine.					
a) enfeebled	b) strengthened	c) protracted	d) permeated					





Directions for questions 15 to 17: Complete the paragraph with the most suitable word from the options. The new systematic nomenclature was so ____(15)____ that many chemists preferred to ____(16)___ the older trivial names that were at least shorter. At least, that is the ostensible reason. Actually, tradition seems to carry more weight than (17) with some scientists. b) cumbersome d) manageable 15. a) succinct c) irrational d) espouse 16. a) revert to b) adopt c) suspend 17. a) chronology b) longevity c) system d) synergy.

Directions for questions 18 to 21: Answer the following questions based on the passage given below.

The term mythology can refer to either the study of myths, or to a body of myths. For example, comparative mythology is the study of connections between myths from different cultures, whereas Greek mythology is the body of myths from ancient Greece. In the study of folklore, a myth is a sacred narrative explaining how the world and humankind came to be in their present form. Many scholars in other fields use the term "myth" in somewhat different ways. In a very broad sense, the word can refer to any traditional story. The main characters in myths are usually gods, supernatural heroes, and men. As sacred stories, myths are often endorsed by rulers and priests and closely linked to religion. In the society in which it is told, a myth is usually regarded as a true account of the remote past. In fact, many societies have two categories of traditional narrative, "true stories" or myths, and "false stories" or fables. Myths generally take place in a primordial age, when the world had not yet achieved its current form, and explain how the world gained its current form and how customs, institutions and taboos were established.

Closely related to myth are legend and folktale. Myths, legends, and folktales are different types of traditional stories. Unlike myths, folktales can take place at any time and any place, and they are not considered true or sacred by the societies that tell them. Like myths, legends are stories that are traditionally considered true, but are set in a more recent time, when the world was much as it is today. Legends generally feature humans as their main characters, whereas myths generally focus on superhuman characters. The distinction between myth, legend, and folktale is meant simply as a useful tool for grouping traditional stories. In many cultures, it is hard to draw a sharp line between myths and legends. Instead of dividing their traditional stories into myths, legends, and folktales, some cultures divide them into two categories, one that roughly corresponds to folktales, and one that combines myths and legends. Even myths and folktales are not completely distinct. A story may be considered true (and therefore a myth) in one society, but considered fictional (and therefore a folktale) in another society. In fact, when a myth loses its status as part of a religious system, it often takes on traits more typical of folktales, with its formerly divine characters reinterpreted as human heroes, giants, or fairies.

Myth, legend, saga, fable, folktale, or marchens are only a few of the categories of traditional stories. Other categories include anecdotes and some kinds of jokes. Traditional stories, in turn, are only one category within folklore, which also includes items such as gestures, costumes, and music. Mircea Eliade argued that one of the foremost functions of myth is to establish models for behaviour and that myth may also provide a religious experience. By telling or re-enacting myths, members of traditional societies detach themselves from the present and return to the mythical age, thereby bringing themselves closer to the divine.





			CPLC				
18. According to the pa	assage, which of the	ne following statements abo	ut 'myths' is NOT true?				
a) The central characters in myths are usually gods and mythical creatures.							
b) Myths are a type of traditional stories							
c) Myth is usually cons	idered a true acco	ount of the past					
d) Myths are generally	located in the cur	rent world setting					
19. The central theme	of the passage ca	n be best described as whic	h of the following?				
a) Ancient Folklore							
b) The Saga of Differen	nt Stories						
c) The Myth about Myth	hology						
d) Legends and their L	egacy						
20. Which of the follow	ing is NOT a cate	gory in traditional stories?					
a) Fables	b) Folklore	c) Marchens	d) None of the above				
21. What subject is the	passage likely to	be based on?					
a) Black magic and sor	rcery						
b) Culture and humanit	ties						
c) Psychology and the	human mind						
d) Art, media and enter	rtainment						
Directions for questic error in it. The error, if a	ons 22 to 26: Rea any, will be in one	d each sentence to find out part of the sentence. The le	whether there is any grammatical etter of that part is the answer.				
a) The language used	should be as read	y and as efficient					
b) a conductor from the	e mind of the write	r					
c) to the mind of the re	ader						
d) as is the electric spa	ark which passes f	rom battery to battery.					
23. a) The higher your skill	ls in speaking and	writing.					

- b) the greater are your chances of success
- c) in many aspects of your life,
- d) from friendships to business dealings.





24.

a)	Professional	writers	realize	that	thev	cannot	hope	to
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- b) affect their readers remotely as they wish
- c) without care and practice
- d) in the proper use of words.

25.

- a) The atmosphere has
- b) no definite upper limit
- c) but gradually thins unless
- d) it becomes imperceptible

26.

- a) In December 1941
- b) Japan did an unprovoked attack
- c) on the United States
- d) at Pearl Harbor.

Directions for questions 27 and 28: Choose the option which is the antonym of the underlined word.

27. Social activity is measured based on a questionnaire and cognitive function is assessed using a battery of 19 tests for <u>various</u> types of memory.

a) many

b) few

c) numerous

d) humongous

28. The onset of guilt is more often related to the <u>transgression</u> of one's powerful sense of right and wrong.

a) judgement

b) ambivalence

c) acrimony

d) obedience

Directions for questions 29 to 32: Answer the questions based on the brief statements or passages.

29. Only those who keep their diet in check, are able to sustain a healthy body weight.

Which of the following statements must be true based on the statement given above?

- a) If a person does not a keep a check on his/ her diet they tend to turn fat.
- b) To maintain a healthy body weight one should keep a routine check on their diet.
- c) No other person can have a healthy body except those who keep a check on their diet.
- d) A person who is fat must not be keeping a check on his/her diet.





30. One of the ways to keep our body fit and active is the Sun Salutation (Surya namaskaar). It is a set of 12 yoga poses that helps one to stay in shape, reduce fat and overall help in better movement of joints and limbs. Clearly, all those who wish to be fit and active, must practice the Sun Salutation.

The argument above depends upon which of the following assumptions?

- a) There is no other way to stay fit and active, other than performing the Sun Salutation.
- b) Sun Salutation helps in keeping a body fit and active.
- c) If a person wishes to be fit and active, Sun Salutation is one of the ways to keep a body fit and active.
- d) No individual is found to be as fit and active as they are after practicing the Sun Salutation.
- 31. All ballet dancers, except Paulina, have dainty feet.

From which of the following can the statement above be most properly inferred?

- a) Paulina is a brilliant dancer, specializing in ballet.
- b) Except for Paulina, if someone has dainty feet then he or she is a ballet dancer.
- c) If a person is a dancer and does have dainty feet then it cannot be Paulina.
- d) Aside from the dancer Paulina, if someone is a ballet dancer then he or she has dainty feet.
- **32.** Investing in the stock market is one of the good ways to invest one's surplus funds and savings. Suman and her husband managed to triple their investments in a short span of time after investing in the stock market.

The argument above depends upon which of the following assumptions?

- a) Investing in the stock market is necessary to increase the value of one's funds and savings.
- b) There is no other good way to invest other than in the stock market.
- c) Suman and her husband had their huge funds and savings tripled in a short span of time.
- d) The performance and returns of Suman and her husband's investments is representative of that of other investments made by everyone in the stock market.





Section II - Quantitative Skills

Direction for Questions 33 to 37: Answer the following questions independently.

33. What is the number of zeroes in $1^{11} \times 2^{21} \times 3^{31} \times \dots \times 10^{101}$?

- a) 120
- b) $5! + 2 \times 10!$
- c) $5! \times 10!$
- d) 5! + 10!

34. The volume of a rectangular block of stone is 10368 dm³. Its dimensions are in the ratio of 3:2: 1. If its entire surface is polished at 2 paise per dm², then the total cost will be

- a) Rs. 31.50
- b) Rs. 17.28
- c) Rs. 63
- d) Rs. 63.36

35. Sparkle left her house at 8 a.m. to reach a certain place by car. After travelling a certain distance, she took rest for 30 mins. In this span of time her car got stolen, due to which she came back to her house walking all the way. She reached home at 2 p.m. If the speed of her car is 50 km per hour and her walking speed is 2 km per hour, then how much distance did she cover by car?

- a) $\frac{275}{26}$ kms

- b) $\frac{265}{26}$ kms c) $\frac{275}{27}$ kms d) $\frac{285}{26}$ kms

36. Find the number of ways one can arrange the letters of the word 'IMPLICATION' such that vowels always come together.

- a) 120800
- b) 100900
- c) 101800
- d) 100800

37. Arvind spent 25% of his money on buying books, 15% of the remaining money on food and remaining Rs.750 on maintenance of the house. Find the ratio of money spent on food to the total money that Arvind had initially.

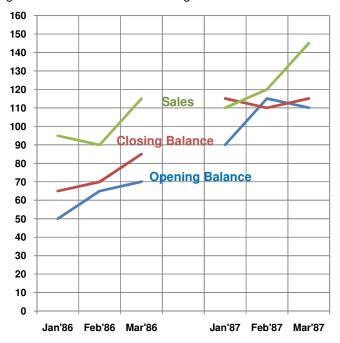
- b) $\frac{12585}{115697}$ c) $\frac{13235}{117647}$ d) $\frac{12145}{117213}$





Directions for questions 38 to 40: The graph given below denotes the performance of an industrial unit in the first quarter of two successive years. Study the graph carefully and answer the questions given below.

Note: Sales = Opening balance + Production - Closing balance



- **38.** What is the difference between the average monthly sales in the first quarter of 1986 and the corresponding period of 1987?
- a) 30
- b) 25
- c) 20
- d) 15
- 39. By how much per-centage have sales increased from March 1986 to March 1987?
- a) 20
- b) 22
- c) 24
- d) 26
- **40.** If the factory produces 75 units in April 87 and the closing balance at the end of April 87 is 40 units, what was the sale during the month?
- a) 140
- b) 150
- c) 160
- d) 170

Directions for Questions 41 and 42: Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and give answer as

- a) If the data in statement I alone is sufficient to answer the questions, while the data in statement II alone is not sufficient to answer the question.
- b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- c) If the data in both statements together are sufficient to answer the question.
- d) If the data given in both statements I and II together are not sufficient to answer the question.





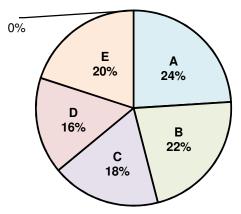
41. What is the original	number?						
I. Sum of two digits of a	number is 10. The ratio	between the two digits is	1:4.				
II. Product of two digits	of a number is 16. Quotion	ent of the two digits is 4.					
42. In what time does a	sum of money become f	our times on simple inter	rest?				
I. Rs. 4000 amounts to	Rs. 4800 in two years on	ı SI.					
II. The difference betwe	en compound interest ar	nd simple interest at the e	end of two years is Rs. 40.				
Direction for Question	s 43 to 47: Answer the f	following questions indep	pendently.				
	43. Average age of 9 members of the family is 40 years. The age of smallest member in the family is 6 years, find the average age of the family at the birth of smallest member.						
a) 37.00 years	b) 36.50 years	c) 37.75 years	d) 38.25 years				
participated in throw ba	ll and 5% of the students	participated in races, 40 participated in both. If o ticipated in one of the co	ne student is selected at				
a) $\frac{8}{10}$	b) $\frac{7}{15}$	c) $\frac{7}{10}$	d) $\frac{7}{9}$				
45. State true or false: I p, q, r, s are all positive	· ·	$en w + \frac{wr}{y} + \frac{y}{p} = x + \frac{x}{z}$	$\frac{r}{z} + \frac{z}{p}$, given that w, x, y, z,				
a) Always true c) Depends on relative v	values of w and z only	b) Always false d) Depends on relative	values of y and z				
	a day can finish a work d to finish the work in 6 d	in 10 days. Working at a lays is?	rate of 10 h a day, the				
a) 30	b) 32	c) 34	d) 36				
47. If the number of fact	tors of 320 × N is 14, wha	at is the value of N?					
a) 1	b) 2	c) 5	d) 6				





Directions for questions 48 to 51: Answer the question on the basis of the information given below.

The following Pie Chart shows the expenditure of each of the companies A, B, C, D and E in year 2005.



Total Expenditure = 9600 million

The following table shows the expenditure of each of the companies in its three items (Item I, Item II and Items III) and corresponding profit % in year 2005.

Name of the	Ratio of Expenditure	Corresponding Profit %			
Company	Item I : II : III	Item I	Item II	Item III	
Α	4:3:5	42%	48%	36%	
В	3:4:4	44%	33%	27.5%	
С	4:3:2	45%	36%	40.5%	
D	5:7:4	48%	32%	40%	
E	2:1:2	45%	35%	40%	

48. Which company has the minimum profit in Item III?

a) A

b) B

c) C

d) D

49. Which company has the minimum overall profit percentage?

a) A

- b) B
- c) C

d) D

50. What is the income of company 'E'?

- a) 2707.2 million
- b) 705.6 million
- c) 1770.2 million
- d) 2770.2 million





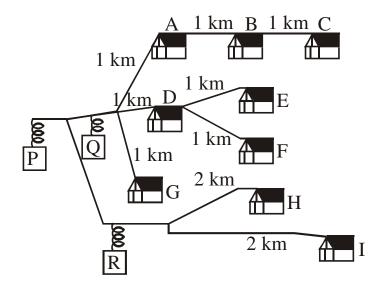
51. Which company has the maximum overall profit in all the three items together?								
a) E	b) B	c) C	d) A					
Directions for questions 52 to 55: Answer the following questions independently.								
52. What is the remaine	52. What is the remainder when $3^{24} \times 4^{22}$ is divided by 5?							
a) 1	b) 2	c) 3	d) 4					
	ius 3.5 cm are placed in enclosed by the circles i		cle touches the other two.					
a) 1.967 cm ²	b) 1.5 cm ²	c) 3.67 cm ²	d) 2.121 cm ²					
			rest. If he had agreed to pay I he have paid at the end of 3					
a) Rs. 3337 less	b) Data insufficient	c)Rs. 3225 more	d)Rs. 3725 less					
55. Find the number of	integers between 101 ar	nd 200 which are not divi	sible either by 2, 3 or 5?					
a) 72	b) 28	c) 65	d) 35					
numbered I and II giver		ecide whether the data p	question and two statements provided in the statements is swer as					
a) If the data in statement alone is not sufficient to		answer the questions, w	hile the data in statement II					
b) If the data in statem alone is not sufficient to		o answer the question, w	while the data in statement I					
c) If the data in both sta	atements together are su	fficient to answer the que	estion.					
d) If the data even in bo	oth statements I and II to	gether are not sufficient	to answer the question.					
56. Ram works for 5 days and leaves the job. Then in how many days will the remaining work be done by Vikas and Sarfraz together?								
I. Ram alone can do the	e entire work in 30 days	and Sarfraz is twice as e	fficient as Vikas.					
II. $33\frac{1}{3}\%$ of the work is work in 2 days.	done by Ram in 10 day	vs whereas Vikas and Sa	arfraz together can do $33\frac{1}{3}\%$					





Directions for questions 57 to 61: Answer the following questions based on information given below.

Power plant P produces certain amount of electricity, which it distributes equally to substations Q and R. They further distribute the obtained electricity equally to the different mini stations A, B, C, D, E, F, G, H and I. It is assumed that after the sub-stations, the wire loses 10% of the original electricity it is carrying for every kilometre, i.e. if 10 A is sent through a wire, after 1 km it will have 9 A and after 2 km it will have 8 A and so on.



Power Distribution from a Power Plant

Further it is known that every mini-station retains 50% of the electricity that it receives (after the losses) and passes on the remainder 50% of the electricity that it receive to the stations down the line.

57. If mini-station I is receiving 10 A, then how much is mini-station 'A' receiving?

- a) 7.5 A
- b) 11.25 A
- c) 10.5 A
- d) None of these

58. Approximately how much should P produce so that C can get 364.5 A of current?

- a) 2300 A
- b) 4000 A
- c) 3300 A
- d) 3600 A

59. Mini-station H is using a device which decreases the current losses on the transmission route directly connected to it to 75%. If H is receiving 34 A, then how much is G receiving?

- a) 80 A
- b) 26.66 A
- c) 24 A
- d) None of these

60. If F is receiving 9 A then how much is G receiving?

- a) 40 A
- b) 45 A
- c) 20 A
- d) 25 A

61. What percentage of the current produced by P, reaches F?

- a) 3.375%
- b) 13.5%
- c) 15%
- d) None of these



a) 2189



d) 21845

Directions for questions 62 to 65: Answer the questions independently.

b) 10925

62. Find the value of smallest number which when divided by 12, 13, 14 and 15 gives the remainder 5, but when divided by 19 gives remainder 0.

c) 4378

63. The price of a 1 litre bottle of Pepsi is Rs. 27. If 25% of the contents are emptied out and replaced with a black liquid, which costs Rs. 3 per litre, what is the cost price of the contents of this 1 litre bottle?								
a) Rs. 21	b) Rs. 25	c)Rs. 23	d)Rs. 22					
into a cylindrical vessel	64. A hemispherical bowl is filled to the brim with a beverage. The contents of the bowl are transferred into a cylindrical vessel whose radius is 50% more than its height. If the diameter is same for both the bowl and the cylinder, the volume of the beverage in the cylindrical vessel is what percent of that of the bowl?							
a) $66\frac{2}{3}\%$	b) $78\frac{1}{2}\%$	c) 100%	d) More than 100%					
65. In a survey of brand preference for tooth-pastes, 72% of the population (number of people covered for the survey) liked at least one of the brands: I, II and III. 40% of those asked liked brand I, 25% liked brand II and 35% liked brand III. If 10% liked all the three brands, then what percentage of those asked liked exactly two of the three brands?								
a) 13	b) 10	c) 8	d) 5					
statements numbered I	and II given below it. Yo		sists of a question and two or the data provided in the es and give answer as					
a) If the data in stateme alone is not sufficient to		answer the questions, w	hile the data in statement II					
b) If the data in statement alone is not sufficient to		o answer the question, w	hile the data in statement I					
c) If the data in both sta	tements together are su	fficient to answer the que	estion.					
d) If the data even in bo	oth statements I and II to	gether are not sufficient t	to answer the question.					
66. A train crosses a sig	gnal post in 20 seconds.	What is the length of the	train?					
I. The train crosses a pl	atform of 100 meters in	30 seconds.						
II. The train crosses and	other train 50 m long con	ning in opposite direction	in 10 seconds.					

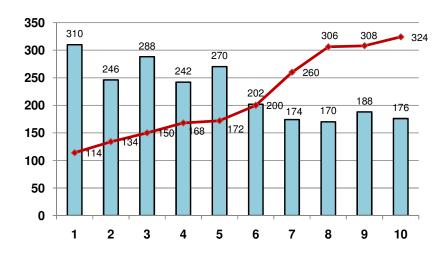




- **67.** Ram's efficiency is 50% more than Shyam's. In how many days can Shyam alone do the whole work?
- I. Ram worked for certain number of days and left after completing half the work. The remaining work was done by Shyam in 50% extra time than that taken by Ram.
- II. Ram and Shyam together can do the whole work in 12 days.

Directions for questions 68 to 70: Answer the questions based on directions given below.

The Bar chart represents revenue while the Line chart represents expenditure for a firm in the past 10 years. Analyse and answer the following questions.



Revenue and Expenditure of a firm in the last 10 years

- **68.** By what percentage is the total expenditure greater/smaller than the total revenue for the given period?
- a) 9.05% less
- b) 8.65% less
- c) 9.35% more
- d) 5.7% less
- **69.** What is the percentage point difference in the maximum percent increase in revenue and the minimum percentage decrease in revenue?
- a) 27.7%
- b) 14.7%
- c) 7.67%
- d) None of these

- **70.** Which of the following is true?
- I. The revenue and expenditure both follow the same trend for the given period.
- II. The revenue and expenditure for both follow the opposite (increase / decrease) trend for the given period.
- III. The percentage increase in expenditure is the highest in the seventh year.
- IV. The number of years in which the revenue has fallen as compared to the immediately preceding year is seven.
- a) Only II
- b) II and III
- c) Only III
- d) None of these





Directions for questio	Directions for questions 71 to 75: Answer the following questions independently							
71. All different Arithmetic series (i.e. A.P.) are written, having the first term 1 and last term 100. How many different integer values of common differences are possible?								
a) 4	b) 5	c) 6	d) 7					
72. A vessel contains pure milk. 8 litres of this solution is removed and replaced by water. This process is repeated 3 times in all. Finally, the ratio of milk and water in the vessel is 27 :37. Find the amount of milk contained in the vessel initially.								
a) 32 litres	b) 36 litres	c) 40 litres	d) 45 litres					

73. A mother says, "I was thrice as old as my daughter was, when I was as old my daughter is". If it is known the sum of the present ages of the mother and the daughter is 32, what was the age of the daughter when her mother was as old as she is now?

74. The roots of the quadratic equation $2x^2 + 5x + 3 = 0$ are 'a' and 'b'. Find that equation, whose roots are '3a + 2' and '3b + 2'.

a)
$$2x^2 - 7x + 10 = 0$$
 b) $2x^2 + 7x + 10 = 0$ c) $2x^2 + 7x - 69 = 0$ d) $2x^2 - 7x - 69 = 0$

75. The ratio between the 103rd term and the 107th term of a G.P. is 81. If the 10th term of this GP is 2, find the 7th term of this G.P.

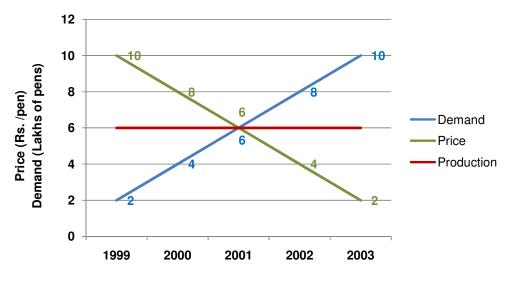
a)
$$\frac{2}{27}$$
 b) $-\frac{2}{27}$ c) 54 d) Cannot be determined





Directions for questions 76 to 80: Answer the following questions based on the information given below.

The graph below shows the demand curve for pens for Reynolds Inc. Assume that the company has no stock and any unsold production is waste. Also, assume that if the company is unable to satisfy the demand through its current year's production, the demand goes to its competitors.



Demand for pens for Reynolds Inc.

76. The graph

- a) shows a direct proportion between demand and price
- b) shows an inverse proportion between demand and price
- c) shows an inverse proportion between demand and price at constant production levels
- d) None of these
- 77. Percentage increase in sales between 1999 and 2003 was
- a) 90%
- b) 80%
- c) 66.66%
- d) No change

- 78. The maximum value of sales is in the year
- a) 1999
- b) 2000
- c) 2001
- d) Cannot be determined
- 79. In 1999, sales (no. of pens sold) were what percentage of demand?
- a) 0%
- b) Infinite
- c) 50%
- d) 60%
- 80. The percentage increase in price over the whole period was
- a) 500%
- b) 300%
- c) 400%
- d) 800%





Section III - Logical Reasoning

Directions for questions 81 to 85: Answer these questions independent of each other.

81. What should come in place of the question mark (?) in the following Letter series?

HHE, IGH, JFK, ?, LDQ

- a) KEL b) KEM c) KNE
- 82. A forest has as many sandal trees as it has Ashoka trees. Three-fourths of the trees are old. Onehalf of the trees are at the flowering stage. Which of the following statements is definitely true?
- a) All Ashoka trees are at the flowering stage
- b) All Sandal trees are at the flowering stage

d) KEN

- c) At least one-half of the Ashoka trees are old. d) None of these
- 83. Pointing to a boy, a woman said, "His father is the only son of a person who is the father-in-law of my mother." How was that boy related to the woman?
- a) Nephew
- b) Brother
- c) Son
- d) Brother-in-law
- 84.'A' is the brother of 'B' and 'C', 'D' is the mother of 'B', 'E' is the father of 'A'. Which of the following statements is definitely not true?
- a) 'D' is the wife of 'E'
- b) 'A' is the daughter of 'B'
- c) 'B' is the brother of 'C'
- d) 'E' is the father of 'C'
- 85. Find the code for the given word from the table given below.

BRAIN

	1	2	3	4	5
1	М	Η	R	0	В
2	Α	S	Е	O	G
3	D	В	J	М	Р
4	Q	K	N	1	Т
5	R	М	L	U	F

	5	6	7	8	9
5	Q	I	٧	K	Χ
6	N	F	D	R	Z
7	В	Р	Α	L	М
8	J	Е	0	N	G
9	Т	С	Н	S	I

- a) 32 13 78 44 88
- b)15682144 45
- c) 75132199 65
- d) 32517656 43





86. In the question below are given four statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Give answer:

- a) if only Conclusion I follows.
- b) if only Conclusion II follows.
- c) if neither Conclusion I nor II follows.
- d) if both Conclusions I and II follow.

Statements:

Some shops are markets. Some markets are huts. Some huts are rooms. Some rooms are buildings.

Conclusions:

- I. Some buildings are huts.
- II. Some rooms are markets.

87. In the question below is given a statement followed by two courses of actions numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, assume everything in the statement to be true and then decide which of the suggested courses of action logically follow for pursuing. Give answer:

- a) if only I follows
- b) if only II follows
- c) if neither I nor II follows
- d) if both I and II follow

There have been two blasts at railway station Z during the last fortnight.

- I. All the activities of the railway station should be covered with CCTV cameras.
- II. Entry points to station should have x-ray machines and manual frisking arrangements.

Direction for questions 88 to 91: Answer the questions based on information given below.

There was a recruitment process going on in the bank for the post of a typewriter. As it offered a handsome pay, many people applied for the job. Since it was impossible to interview so many people, the bank decided to conduct a typing test for all the candidates. Groups of 6 candidates were made and the test was conducted in groups. The test involved typing of 400 given words. The one from each group completing it fastest would be shortlisted.

In one such group following pattern was observed. Let us denote the candidates as C1, C2, C3, C4, C5 and C6 for convenience.

- (i) C1 was not as fast as C5, but required lesser time than C4
- (ii) C6 was the only one who required more time than C4
- (iii) The difference between the timings of C1 and C4 was more as compared to that of C3 and C4
- (iv) C2 was shortlisted from this group.





88. Who typed faster than C3?

a) C5		b) C1		c) C4		d) both	1 and 2		
89. How ma	ıny people r	equired more tim	e than (C1?					
a) 2		b) 3		c) 1		d) can't	say		
90. Who co between C2		een shortlisted if	the diff	erence in	timing of C5	and C6 w	as greate	r than	tha
a) C1		b) C5		c) C4		d) C3			
		ould not be shortl not be shortlisted					3		
The reasor notshortliste		ed in which of	the ab	oove two	statements	justify the	fact that	C5	was
a) only 1 c) both 1 an	d 2			b) only 2d) neither of the 2 statements justify that fact					
	it following	ons 92 to 94: A a particular rule.							
Input:	you do thin	ngs to help others	s in diffic	culty					
Step I:	do you oth	ers to help things	s difficul	ty in					
Step II:	do others y	ou help to difficu	ılty thing	gs in					
Step III:	do others h	nelp you difficulty	to thing	s in					
Step IV:	others do h	nelp you difficulty	to in th	ings					
And so on g the question		chine again repe v.	eating th	e logic of	the first 4 ste	os. Study t	the logic a	nd an	swei
92. If step II input?	I of a given	input be 'why ar	e you n	ot in conta	act with me', v	what is the	seventh s	step c	of the
a) why in yo	u with are n	ot contact me							
b) why you i	in are with n	ot contact me							
c) why in co	ntact are wi	th you not me							
d) you why in with are not contact me									





93. If step VI of an inpu	ut is 'above is the messa	ge to you from me', what	is the step III of that input?				
a) above from the message to you is me							
b) above the from to m	iessage is you me						
c) above the message from to you is me							
d) the above from mes	sage you to is me						
94. Given the following	ı Input: I am talking abou	t you, Digvijay Pranav A	shok				
What step will be the fo	ollowing arrangement?						
Arrangement: about ar	m I talking Digvijay Asho	k Pranav you					
a) VI	b) VII	c) VIII	d) V				
assumption is somethi	ing supposed or taken fo		nptions numbered I and II. An onsider the statement and the cit in the statement.				
Give answer:							
a) if only I is implicit							
b) if only II is implicit							
c) if either I or II is impl	licit						
d) if neither I nor II is in	nplicit						
In elections cash, crim	e, caste and small regior	nal issues have become t	he deciding factors.				
Assumptions:							
	oliticians contested the el er the spell of criminals.	ection with stress on ethi	cs, character and moral values.				
96. In the question below is given a statement followed by two Inferences numbered I and II. You have to consider the statement and decide which of the inference/s is/are supported by the main statements.							
Give answer:							
a) if only Inference I fo	llows						
b) if only Inference II fo	ollows.						
c) if neither Inference r	nor Inference II follows.						
d) if both the Inferences follow.							





Statement: The government has decided to provide monetary relief to the farmers in the drought-hit areas.

Inferences:

- I. The farmers are still living in the drought hit areas.
- II. Only farmers in the drought hit areas will be eligible for the monetary relief.

Directions for questions 97 to 99: In each of the following number series, two terms have been put within brackets. Mark your answer as

- a) If both the bracketed terms are right
- b) If the first bracketed term is right and second is wrong
- c) If the first bracketed term is wrong and second is right
- d) If both the bracketed terms are wrong
- **97.** 2, (5), 10, 15, (24), 35, 50
- **98.** 2, 3, (6) 11, 18, (30), 38
- **99.** 4, 7, (9), 13, (16), 19, 22
- **100.** Find the code for the given word from the table given below.

PAWN

	1	2	3	4	5
1	В	Z	K	Ø	Р
2	W	R	R	М	Е
3	ı	Р	G	Α	Ε
4	С	U	N	Χ	W
5	Α	Т	D	G	0

	5	6	7	8	9
5	Р	J	Υ	Q	Н
6	S	D	Α	С	N
7	Ν	Т	Z	K	F
8	F	L	В	Р	В
9	М	W	٧	J	S

- a) 15672186
- b) 55 517869
- c) 32 67 45 24
- d) 88 34 96 43



a) daughter–motherbrother–sister



Directions for questions 101 and 102: Determine the correctness or otherwise of the following Assertion [A] and the Reason [R] and choose

Assertion [A] and the Re	eason [R] and choose		
Answer:			
a) If both [A] and [R] are	e true and [R] is the corr	ect reason for [A]	
b) If both [A] and [R] are	e true but [R] is not the c	orrect reason for [A]	
c) If both [A] and [R] are	e false		
d) If [A] is true but [R] is	false		
101. Assertion [A]: Modern dominant language in the		scribed as the first globa	I lingua franca, is the most
		al language of communic tainment, radio and diplo	cations, science, information omacy.
102. Assertion [A]: Global voceans and its related e		ng average temperature	of Earth's atmosphere and
		re increased owing to in s such as deforestation	creasing concentrations of and burning fossil fuel.
Directions for questio below.	ns 103 to 106: Answer	the following questions b	pased on the information given
	vould earn them 3 mark		olved family tree of a particular would not earn them any mark
		he mother of C and C is lost his/her father in chil	the sister of D. F is the father dhood.
103. The students scor option should the stude		oting the question, 'How	are G and H related?'. What
a) Brothers	b) Sisters	c) Uncle-Nephew	d) Cousin
		ering this question, 'Amo	ngst the given members, how !?
a) 1	b) 2	c) can't say	d) 3
	d to score any mark which option must they have		question, 'What is the relation

b) grandchild-grandmother d) son-in-law-mother-in-law





106.	Students	scored :	3 marks	after	attempting	this	question,	'How	many	couples	are	there	in	the
famil	y?'. What	option sh	nould the	stude	ents have se	elect	ed?							

a) 3

b) 4

c) 2

d) can't say

107. In the question below is given a statement followed by two courses of actions numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, assume everything in the statement to be true and then decide which of the suggested courses of action logically follow for pursuing. Give answer:

- a) if only I follows
- b) if only II follows
- c) if neither I nor II follows
- d) if both I and II follow

Death in police custody in area X has caused violent public agitation.

- I. All the employees, responsible for the death should be suspended immediately.
- II. Leaders of public agitation should be arrested.

108. In the question below is given a statement followed by two Inferences numbered I and II. You have to consider the statement and decide which of the inference/s is/are supported by the main statements.

Give answer:

- a) if only Inference I follows.
- b) if only Inference II follows.
- c) if neither Inference nor Inference II follows.
- d) if both the Inferences follow.

Statement:All the students of a school were instructed by the Principal to reach school at least 15 minutes before the stipulated time for the coming month.

Inferences:

- I. The students usually reach the school later than the stipulated time.
- II. The coming month is important for the students.

Direction for Questions 109 to 113: Answer the following questions independently

109. If in a certain code, the word MARGINAL is coded as JOBMLZQF, then what would be the word for which SPRINTER will be the code?

- a) OUFRSOQH
- b) OUFSROQH
- c) OUFSHQOR
- d) OUFHSQOR





110.	Find the	odd word	Out	amongst the	aiven	set of	words:
	i iiiu tiic	oud word	υuι	arrioridat tire	GIVCII	301 01	wolus.

- a) Neptune
- b) Uranus
- c) Moon
- d) Pluto

111. A person leaves his home for his office about an hour before noon and takes a left after walking straight for 10 kms. After walking another 20 kms.he takes a right and then immediately turns left. After walking for about 15 kms. he takes one final turn and realises that he is facing his office and that he has walked for about two hours.But, immediately a strange observation dawns upon him. When he had started his shadow was in front of him, but now his shadow is behind him. Which of the following statements is true about his journey?

- a) He covered the 20 kms. journey facing the North, and the last turn he took was a left turn.
- b) He covered the 20 kms. journey facing the South, and the last turn he took was a left turn.
- c) He covered the 20 kms. journey facing the North, and the last turn he took was a right turn.
- d) He covered the 20 kms. journey facing the South, and the last turn he took was a right turn.
- **112.** In the sequence given below, which character is seventh to the right of the third character to the left of the ninth character to the right of the fifth character from the left end?

#U97QB%OZ@1HC©KW5\$8A

a) 5

b) \$

c) 8

d) A

113. If 13: 170, 17: 290, then 19:?

a) 230

b) 310

c) 362

d) 370

- **114.** In the question below are given four statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Give answer:
- a) if only Conclusion I follows.
- b) if only Conclusion II follows.
- c) if neither Conclusion I nor II follows.
- d) if both Conclusions I and II follow.

Statements: All cakes are breads. Some breads are fruits. Some fruits are biscuits. All biscuits are snacks.

Conclusions:

- I. Some snacks are fruits.
- II. Some cakes are fruits.





115. In the question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and then decide which of the assumption is implicit in the statement.

Give answer:

- a) if only I is implicit
- b) if only II is implicit
- c) if either I or II is implicit
- d) if neither I nor II is implicit

Many blood-donors collected in the hospital to save the life of a 14-year old boy.

Assumptions:

- I. The boy met with an accident and lost sufficient amount of blood.
- II. He suffers from some other disease and the blood pumped into his body will save his life.

Direction for Questions 116 to 118: Answer the following questions based on the information given below.

A Sea-food restaurant serves three types of fishes every day, out of a total of five fishes - Rawas, Surmai, Bombil, Bangda, and Pomfret.

Further, it is known that it serves no more than one fish that it served on the previous day.

Also, If Bombilis served on any given day, thenPomfrethas to be served on the same day.

116. Which of following is not the correct list of fishes that could be served on two consecutive days?

a) Day 1: Bombil, Pomfret, Bangda Day 2: Bangda, Rawas, Surmai

b) Day 1: Surmai, Bangda, Rawas Day 2: Surmai, Bombil, Pomfret

c) Day 1: Pomfret, Surmai, Rawas Day 2: Pomfret, Bombil, Bangda

d) Day 1: Bombil, Pomfret, Bangda Day 2: Bombil, Surmai, Rawas

117. Which of the following fishes cannot be repeated on two consecutive days?

- a) Surmai b) Pomfret
- c) Bombil
- d) Bangda

118. If Pomfret and Bombilare served on any given day, and Pomfret is repeated on the next day, which of the following is necessarily true about the fishes that are served in the restaurant?

- a) Pomfret will be served every day in the restaurant.
- b) Surmai will be served on the third day
- c) Bangda will be served on the third day
- d) Pomfret will not be served on the third day.





Directions for questions 119 and 120: These questions are based on the reasoning in the brief statements or passages:

The popular outrage over the official definition of poverty at abysmally low levels of daily income, of Rs 26 in rural areas and Rs 32 in urban areas, <u>assumes the state will deny basic services to a household whose income is above the figure.</u> This is totally erroneous. There is no mechanism in the hands of the government to ascertain income or expenditure to identify the 'poor' on the ground.

- 119. The highlighted part of the above argument is
- a) A fact upon which the writer bases his argument.
- b) An assumption that helps the conclusion "this is totally erroneous."
- c) An inference used by the writer to contradict a fact.
- d) An opinion of the writer that explains a fact.
- 120. "This is totally erroneous" in the above paragraph is
- a) A fact
- b) A reasoned judgment
- c) A false opinion
- d) A supporting conclusion.