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Quantitative Aptitude

This section contains 20 questions

- 1. $p \propto q, q \propto \frac{1}{s}, s \propto \frac{1}{r}$.
 - p = 1, when q = 2, q = 3; when s = 4, s = 4; when r = 5. Find r, when p = 6. (a) 35 (b) 30 (c) 20 (d) 16 ero bus large
- 2. If $\frac{a^2 ab + b^2}{a^2 + ab + b^2} = \frac{1}{3}$, then find $\frac{a}{b}$. (a) 16 feet (a)
- 15. Five persons entered by he lift cabin on the gree (5) floor of an seven stories (d) iding. Suppose that ear (a) the independently and with equal probability, can teave the expin at any floor beginning with the first. What will be t
- **3.** Coordinates of the points X, Y and Z are $X \equiv (6, 4)$, $Y \equiv (-3, 5)$ and $Z \equiv (2, -4)$. Find the coordinates of a point which divides the medians from all the three vertices in the ratio 2 : 1.
 - (a) $\left(\frac{5}{3}, \frac{5}{3}\right)$ (b) $\left(\frac{5}{3}, \frac{5}{2}\right)$ (c) $\left(\frac{7}{4}, \frac{3}{2}\right)$ (d) Data insufficient
- 4. In $\triangle LMN$, LO is the median. Also, LO is the bisector of $\angle MLN$. If LO = 3 cm and LM = 5 cm, then find the area of $\triangle LMN$.
 - (a) 12 sq cm (b) 10 sq cm (c) 4 sq cm (d) 6 sq cm
- 5. What is the remainder when $7^{74} 5^{74}$ is divided by 4?
 - (a) 0 (b) 1 (c) 2 (d) None of these

6. A shopkeeper gives two successive discounts of 10% and 20% on a marked price of Rs 5000 of a bicycle. He had to give a further discount equal to 20% of his cost price on his new selling price, as a result of which he made neither a profit nor a loss. Find his cost price for the bicycle.

(a) Rs 2000(b) Rs 3000(c) Rs 3600(d) Rs 45007. Find the remainder when $a^3 - 5a^2 + 7a - 9$ is divided by $a^2 + a - 6$.(a) 19a - 31(b) 19a - 38(c) 19a - 49(d) 19a - 45

8	. Where roost of the quadrati	t www.educationobserve c equation $y^2 + My + N$ are	er.com equal to N and M , then find	the possible number of pairs of
	(11, 11).			the possible number of pairs of
	(a) 0 and 1	(b) 1 mile to have two		(d) 3
9	A garland is to be made from ways can the garland be m	om six different flowers and a ade?	a large pendant which has tw	vo different faces. In how many
	(a) 240	(b) 600	(c) 720	(d) None of these
10.	between their speeds is 5 k	and in their the speed of faster	travel a distance of 350 km i car is	is 2 h 20 min. If the difference
	(a) 30 km/h		(c) 40 km/h	
11.	What is the present worth 10%?	of a house which would be v	worth Rs 50000 after 3 years	, if it depreciates at the rate of
	(a) Rs 35765.74	(b) Rs 67560.74	(c) Rs 67655.74	(d) Rs 68587.10
12.	If x , y , and z are in harmon	nic progression, which of the	following statement(s) is/ar	e true?
	I. $x = \frac{y(x+z)}{2z}$	II. $x = \frac{z(x-y)}{y-z}$	III. $x = \frac{y - z}{x - z}$	politik doc' a ciset of polyches
	(a) I only (c) II only		(b) I and II (d) II and III	
19		ive Aptitude	ISTRICT SHO	
13.	Saturday were 10% of the to	otal production. The overall re uction of Friday to production	ejection rate for the two days	duction and rejected pieces on combined works out to 8.33%.
	(a) 1:2	(b) 2:1	(c) 1:3	(d) 1:1.75
14.		iral helps it to cover 4 feet in		e pole such that its motion is a ct reaches the top, what is the
	(a) 16 feet	(b) 18 feet	(c) 20 feet	(d) 25 feet
	independently and with equ	ft cabin on the ground floor al probability, can leave the ersons leaving at different floor	cabin at any floor beginning	g. Suppose that each of them with the first. What will be the
	(a) 0.02	(b) 0.15	(c) 0.37	(d) 0.38
16.	came back, she had as many	he took nearly Rs 15 with her y one rupee notes as she origi otes. The total amount was al	inally had 20 paise coins and	s and 20 paise coins. When she as many 20 paise coins as she w much did she spend?
	(a) Rs 4.28	(b) Rs 9.30	(c) Rs 9.60	(d) Rs 10.20
17.	A calculator has two memo sequence of steps is carried			mory locations. The following
	(i) Add 1 to Q(iii) Store the result in P	(c) 2	(ii) Multiply P and Q	af 0
	What is the value stored in	memory location P after this	procedure?	give a further discount o
	(a) 120	(b) 450	(c) 600 and and 200 a	(d) 720
18	A manager is not used to wo	ork in the decimal system. She	e says that there are 100 empl	loyees in the office of which 24
10.	are males and 32 are femal	es. Which number system do	es the manager use? (c) 8	DIA TONUCUIS ALL MANY
· ,	(a) 4 - ce - oet (b)	(b) 6 (b) - bet (b)	10 · 20 - 2021 [4]	(d) 16

19. N, the set of hatural humbers, VIS divided unto subseces	$A_1 \in (1), A_2 = (2,$	3), $A_3 = (4, $	$(5, 6), A_4 = (7, 8, 9, 10)$ and so	
on. What is the sum of the elements of the subset A_{50}	?		rupees of export in 2008.	
(a) 42455 (b) 61250	(c) 62525	aszeetd)s le	(d) 65525	

20. Suppose that an equal number of persons are born on each day. What will be the percentage of persons whose birthday will fall on 29th February?

(d) None of these (c) 0.068 (a) 0.741 (b) 0.273

Section II

Data Interpretation & Critical Reasoning

This section contains 20 questions

Direction (Q. 21-22) : Study the table carefully and answer the following questions. Number of washing machines and refrigerator manufactured by a company

Contraction of the second	2005	2006	2007	2008	2009
Washing machine	14400	20500	12800	16400	18600
Refrigerator	12800	24700	19200	20200	14900

21. Approximately what was the percentage decrease in number of refrigerators manufactured in 2007 from 2006? (a) 22 (b) 26 (c) 28 (d) 30

22. What was the difference in the total number of washing machines and refrigerators manufactured in 2006 to the total number of washing machines and refrigerators manufacured in 2008? (a) 6800 (b) 5600 (c) 8600 (d) 8200

Direction (Q. 23-27) : Study the graph carefully and answer the following questions.

				the field
	nisey devia add tot India's Tea (b)			32. The impor (a) 125
in lobelled (I) and (III)	Sa anestion and two Stateme	he following probably of 90	(Q. 33-36) : Each of t	Direction
	00	Qty in Lakn p	ackets an manader slabs rores (b) anon noniqo a	
is not.			ment I alono is suffic ement II alone is suffi	
	tion and damage and for point	gather are sufficient to war	Statements Land U to	(c) If both
bebeen state beauted.	2005 2006 2007		ements I and II togethe	
23. In which year th	e value per packet was minim	ram PORS in which the dimu		
(a) 2005	(b) 2006	(c) 2007	(d) 2008	Statemen Statemen
24. What was the di	fference between the packets	exported in 2007 and 2008?		ALCHE MERE
(a) 10	(b) 1000	(c) 100000	(d) 1000000	A PACING THE REPORT OF THE PACE OF THE PACE
25. What was the ap	proximate percent increase ir	export value from 2005-2009	t I Therate of interese	Statemen
(a) 350	(b) 330 (b) (b)	(c) 43 1210 EE (c)	(d) None of	these
26. What was the pe	rcentagte drop in export quar	ntity from 2005-2006?	are non-negative muni	35. If a and b
(a) 75	(b) 25	(c) 50	(d) None of	these

27.	rupees of export in 200	08?	ments of the subset Asa?	
T^{T}	(a) 65525 004 (a)			
				tions. In the first second of the
	(d) None of these (e)	Data regard	ing import of Auto Spare parts	
			7016	
			5832	
		in the station of	4203	· · · · · · · · · · · · · · · · · · ·
		3465	2500	or and a depression of the second
		2413	2000	" "A section contains 20 question
	(a) (b) (b) (c) (c)	1811	and the stand light and start of	
		unionin et elle Conte en la	an water and the set	
	2005	2002 2003 2004	2005 2006 2007 2008 2009	
28.	In which year did the i	mport register highest i	ncrease over its preeceding year	Washing machine
	(a) 2004	(b) 2005	(c) 2006	(d) 2009
20	The import in 2007 w	as approximately how m	any times that of the year 2003?	Approximately what was the
	(a) 0.31	(b) 1.68	(c) 2.41	(d) 3.22
30		e vears which have aboy	e average import to those which	have below average imports?
	(a) 5:3	(b) 8:3	(c) 3:8	(d) None of these
21	(4) 82.00	in 2009 was what per	cent of the import in 2008?	Whe die pole sain in DOUG incl.
51.	(a) 25	(b) 5	(c) 125	(d) 80 (d) 100 (d)
20	Table and the second second second	and the second	cent of the average import for th	a given vearc?
32.	(a) 125	(b) 115	(c) 190	(d) 85
		The stands of our literation		i two Statements labelled (I) and (II).
	You must decide whethe	er the data given in the sto	atements are sufficient to answer t llowing guidelines. Mark your an	the question. Using the data, mark the
			er the question asked, but State	
			er the question aksed, but State	
	(c) If both Statements sufficient.	s I and II together are su	incient to answer the question a	sked, but neither statement alone is
		d II together are not suffi	cient to answer the question ask	ed and additional data is needed.
33.	What is the area of the	e parallelogram PQRS in	which the diagonal QS is 12 cm	2.4 (o which year the value per per
	Statement I The perp	endiculars from R and S	to PQ are equal.	
	Statement II The per	pendicular from P on QS	is of length 8 cm.	
34.		rtain amount at compo s the amount borrowed?		amount with interest in two equa
	Statement II Each ins	stallment was Rs 1210.	P (3)	
		ative numbers, is $(a + b)$	greater than ab?	
	Statement I $a = b$.			

Statement I a = b.

36. Is the average of the largest and the smallest of four given numbers greater than the average of the four numbers? Statement I The difference between the largest and the second largest numbers is greater than the difference between the second smallest and the smallest numbers.

Statement II The difference between the largest and the second largest numbers is less than the difference between the second largest and the second smallest numbers.

Direction (Q. 37-40) : Answer the questions on the basis of the information given below.

Ten persons namely, Litesh, Pawan, Nitu, Parul, Dinesh, Sheema, Anil, Dharam, Dolly and Sheela go for a magic show and they all sit on a single row of seats numbered 1 to 10. There are three couples in the group. Each couple has only one child, the child always sits next to its mother. A family (father, mother and child) always sit together. Sheela, Dolly, Parul, and Sheema are females whereas Litesh, Pawan, Nitu, Dinesh and Dharam are males.

- (1) Dinesh sits on seat number 6 which is immediately next to Nitu's mother's seat.
- (2) Sheela sits on a seat whose number is both a perfect square and a perfect cube.
- (3) Dharam is Dolly's father and they both sit on prime numbered seats.
- (4) Litesh, the bachelor sits next to Pawan.
- (5) The children are Nitu, Dolly and Dinesh.
- 37. Who is Dinesh's mother, if the person sitting two places away from the person sitting immediately next to Nitu is Parul?
 - (a) Sheema (b) Sheela
- 38. Who is sitting five places to the left of the person who is sitting two places to the left of Dharam's wife?
 (a) Litesh
 (b) Pawan
 (c) Nitu
 (d) Can't be determined
- 39. What is Anil's seat number?
 - (a) 4 (b) 5 (c) (b) 5 (c)
- 40. Who is sitting to the immediate right of Litesh? (Use data from pervious questions, if necessary) (a) Dolly
 (b) Dharam

(c) Pawan

(c) 9 10 20 million and 10 data (d) 10 44

(c) Parul

(d) No body

(d) Can't be determined

Section III

Verbal Ability & Reading Comprehension

This section contains 20 questions

Direction (Q. 41–42) : In each question, there are five sentences. Each sentence has a pair of words that are italicized and highlighted. From the italicized and highlighted words, select the most appropriate words (A or B) to form correct sentences. The sentences are followed by options that indicate the words, which may be selected to correctly complete the set of sentences. From the options given, choose the most appropriate one.

- 41. Heena wore a beautiful broach (A)/brooch(B) on the lapel of her jacket. The last scene provided a climactic(A)/climatic(B) ending to the play. In case I see you engaging in such exceptional(A)/exceptionable(B) behaviour, I will be forced to punish you. I give my consent(A)/assent(B) to the surgical treatment. He does not seem to be adverse(A)/averse(B) to helping me out.
 (a) BABAA
 (b) BABAB
 (c) BAAAB
 (d) ABABA
- 42. The ice cream served at the wedding had lots of currents(A)/currants(B) and nuts in it.If you want to know more about the career option, please meet your councillor(A)/counselor(B).I would like to advice(A)/advise(B) you about your insurance policy.

erez	The minister is obl His analysis of the	iged(A)/competied(B) to rep situation is far too sanguine	(A)/genuine(B).	ry board. I am to easily a sub all be experience of the sub-top of top o
	(a) BBABA	(b) BBAAA	(c) BBBBA	(d) ABBAB
	sentence(s) or part(s and logical consister	 (45) : In each of the following (5) of sentence(s) that is/are concey). Then, choose the most ap 	rrect in terms of grammar and u propriate option.	that form a paragraph. Identify the sage (including spelling, punctuation
	(B) Slowly her effc(C) What she learn(D) preceded action(a) C only	orts bore fruits and things sta at from this is that it is ideal n and precision of thought f (b) B and C	arted improving. for humans if reflection. acilitated precision of behavio (c) A and B	ing and one child, the child ing the Sheels, Dolly, Parol mates
44.	(B) the financial at(C) out of the slow(D) they know how	uthority can, principally, mo down-assuming w to use a fiscal instrument i	ove the economy in its most effective manner. (c) A and B	ar Litesh, the bachelor sits ce A the obli dren are Nith, Dol
45.	(C) a coup. And a	act in an impassioned manne llso, one must manage to bit	er and must refrain te back the ironic retort damage one's chance for succ (c) A and B	36. Who is string five places to the
	five pairs of words.	Choose the pair that best com	pletes the sentence.	blanks. Given below each question are
	assigned to exercise disease or demention (a) innovative; con (c) controlled; ran	e or not, and are then follow a. mmunally ndomly	ed for the development of chro (b) exigent; exploite (d) disingenuous; vi	iciously 95
	the world, planners are force (a) scrutinizing; b (c) observers; agr	thinking about what to d d to assume that the U.S. mu pelieving eeing	o next, and U.S. point st suffer the first blow in any fu (b) observers; conce (d) crippling; strait	jacketing
the	Direction (Q. 48– option correspondi	49): In each of the questions ng to the sentence in which the	s a word has been used in senter e usage of the word is incorrect of	nces in four different ways. Choose the or inappropriate.
48	(b) She earned th	ng earned our confidence. The reputation as a hard work	di selle (il) site allo (il) sudine il	41. Seens word a beautiful broach of The last scene provided a dima of curch see you engaging in and of either my consential) (or themts)

(d) He earned a mention in the news.

49. Round

- (a) A round of tear gas shells was fired to disperse the crowd.
- (b) I met her round the corner.
- (c) The doctor is on a hospital round.
 - (d) I shall not come round to admitting it.

Direction (Q. 50–52): Each of the following questions has a paragraph from which a question is being asked. From the given options, choose the option that answers the question in the most appropriate way.

50. Lycopene, glutathione, and glutamine are powerful antioxidants that neutralize the free radicals that are produced in the body as a result of routine bodily processes. An excess of these free radicals in your system causes rapid aging because they accelerate the rate of cellular damage. Aging is simply the result of this damage. Thus, to slow down aging it is necessary to supplement your diet with these antioxidants on a daily basis.

Which of the following, if true, most seriously undermines the author's contention?

- (a) Most persons aren't concerned with the effects of aging until it is too late to do anything.
- (b) Exercise associated with normal daily activities effectively neutralizes and dissipates the free radicals that are produced as a result of routine bodily processes.
- (c) The cost of antioxidants is exorbitantly high and well beyond the budget of most consumers.
- (d) Only overweight people who do not exercise on a daily basis are likely to have an excess of free radicals in their systems.
- 51. Is it wrong for doctors to lie about their patients' illnesses? Aren't doctors just like any other people we hire to do a job for us? Surely, we would not tolerate not being told the truth about the condition of our automobile from the mechanic we hired to fix it, or the condition of our roof from the carpenter we employed to repair it. Just as these workers would be guilty of violating their good faith contracts with us if they were to do this, doctors who lie to their patients about their illnesses violate these contracts as well, and this is clearly wrong.

The conclusion of the argument is best expressed by which of the following?

- (a) Doctors who lie to their patients about their illnesses violate their good faith contracts with their patients.
- (b) Doctors often lie to their patients about their illnesses.
- (c) Doctors are just hired workers like mechanics and carpenters.
- (d) It is wrong for doctors to lie about their patients' illnesses.
- **52.** The Japanese economic model created strong domestic industries through subsidies from its Ministry of Trade and by closing off competitive foreign firms to its domestic market. This strategy promised to help economic growth by incubating domestic industries. New Japanese industries could count on a known local demand and would be protected from competition by tariffs and other barriers. The program could reduce the amount of imports and therefore improve the nation's balance of trade.

Which of the following, based on the passage above, is a weakness in this economic strategy?

- (a) A protectionist policy will create animosity among other nations.
- (b) Fast growth of small industries will create a class of millionaires and increase the inequality of income.
- (c) Subsidies and import constraints keep domestic prices high and impose a burden on consumers.
- (d) Quotas are more regressive than tariffs.

Questions (53-55) are based on the following passage: which but but but but but be builted and to pointed buswase and

In an unfinished but highly suggestive series of essays, the late Sarah Eisentein has focused attention on the evolution of working women's values from the turn of the century to the First World War. Eisenstein argues that turn-of-the-century women neither wholly accepted nor rejected what she calls the dominant "ideology of domesticity," but rather took this and other available ideologies-feminism, socialism, trade unionism-and modified or adapted them in light of their won experiences and needs. In thus maintaining that wages-work helped to produce a new "consciousness" among women, Eisenstein to some extent challenges the recent, controversial proposal by Leslie Tentler that for women the work experience only served to reinforce the attractiveness of the dominant ideology. According to the Tentler, the degrading conditions under which many female wage earners worked made them view the family as a source of power and esteem available nowhere else in their social worl(D) In contrast, Eisenstein's study insists that wage-work had other implications for women's identities and consciousness. Most importantly, her work aims to demonstrate that wage-work enabled women to become aware of themselves as a distinct social group capable of defining their collective circumstance. Eisenstein insists that as a group working-class women were not able to come to collective consciousness of their

user created content at www.educationobserver.com situation until they began entering the labor force, because domestic work tended to isolate them from one

unfortunately, Eisenstein's unfinished study does not develop these ideas in sufficient depth or detail, offering tantalizing hints rather than an exhaustive analysis. Whatever Eisenstein's overall plan may have been, in its current form her study suffers from the limited nature of the sources she depended on. She use the speeches and writings of reformers and labor organizers, who she acknowledges were far from representative, as the voice of the typical woman worker. And there is less than adequate attention given to the differing values of immigrant groups that made up a significant proportion of the population under investigation. While raising important questions, Eisenstein's essays do not provide definitive answer, and it remains for others to take up the challenges they offer.

- 53. It can be inferred from the passage that, in Eisenstein's view, working women at the turn of the century had which of the following attitudes toward the dominant ideology of their time?
 - (a) They resented the dominant ideology as degrading.
 - (b) They preferred the dominant idology to other available ideologies.
 - (c) They began to view the dominant idology to other availbale ideologies.
 - (d) They accepted some but not all aspects of the dominant ideology.
- 54. Which of the following best describes the organization of the first paragraph of the passage?
 - (a) A chronological acount of a historical development is presented, and then furture developments are predicted.
 - (b) A term is defined according to several different schools of thought, and then a new definition is formulated.
 - (c) A theory is presented, an alternative viewpoint is introduced, and then the reasoning behind the initial theory is summarized.
 - (d) A tentative proposal is made, reasons for and against it are weighed, and then a modified version of the proposal is offered.
- **55.** Which of the following would the author of the passage be most likely to approve as a continuation of Eisenstein's study?
 - (a) An oral history of promotion women labor organizers
 - (b) An analysis of letters and diaries written by typical female wage earners at the turn of the century
 - (c) An assessment of what different social and political groups defined as the dominant ideology in the early twentieth century
 - (d) A theoretical study of how socialism and feminism influenced one another at the turn of the century

Questions (56-57) are based on the following passage:

Neotropical coastal mangrove forests are usually "zonal," with certain mangrove species found predominantly in the seaward portion of the habitat and other mangrove species on the more landward portions of the coast. The earliest research on mangrove forests produced descriptions of species distribution from shore to land, without exploring the causes of the distributions.

The idea that zonation is caused by plant succession was first expressed by J. H. Davis in a study of Florida mangrove forests. According to Davis' scheme, the shoreline is being extended in a seaward direction because of the "land-building" role of mangroves, which, by trapping sediments over time, extend the shore. As a habitat gradually becomes more inland as the shore extends, the "land-building" species are replaced. This continuous process of accretion and succession would be interrupted only by hurricanes or storm flushings.

Recently the universal application of Davis's succession paradigm has been challenged. It appears that in areas where weak currents and weak tidal energies allow the accumulation of sediments, mangroves will follow land formation and accelerate the rate of soil accretion; succession will proceed according to Davis's scheme. But on stable coastlines, the distribution of mangrove species results in other patterns of zonation; "land building" does not occur.

To find a principle that explains the various distribution patterns, several researchers have looked to salinity and its effects on mangrove. While mangroves can develop in fresh water, they can also thrive in salinities as high as 2.5 times that of seawater. However, those mangrove species found in freshwater habitats do well only in the absence of competition, thus suggesting that salinity tolerance is a critical factor in competitive success among mangrove species. Research suggests that mangroves will normally dominate highly saline regions, although not because they require salt. Rather, they are metabolically efficient (and hence grow well) in portions of an environment whose high salinity excludes plants adapted to lower salinities. Tides create different degrees of salinity along a coastline. The characteristic mangrove species of each zone should exhibit a higher metabolic efficiency at that salinity than will any potential invader, including other species of mangrove.

56. According to the passage, the earliest research on mangrove forest produced which of the following?

- (a) Data that implied random patterns of mangrove species distribution
- (b) Descriptions of species distributions suggesting zonation and her beinger en effective table of the bold of
- (c) Descriptions of the development of mangrove forests over time
- (d) Reclassification of species formerly thought to be identical

57. It can be inferred from the passage that Davis' paradigm does NOT apply to which of the following?

- (a) The shoreline of Florida mangrove forests first studies by Davis
- (b) A shoreline in an area with weak currents
- (c) A shoreline in an area with weak idal energy
- (d) A shoreline in which few sediments can accumulate.

Questions (58-60) are based on the following passage:

Modern manufacturers, who need reliable sources of materials and technologically advanced components to operate profitably, face an increasingly difficult choice between owning the producers of these items (a practice known as backward integration) and buying from independent producers. Manufacturers who integrate may reap short-term rewards, but they often restrict their future capacity for innovative product development.

Backward integration removes the need for some purchasing and marketing functions, centralizers overhead, and permits manufacturers to eliminate duplicated efforts in research and development. Where components are commodities (ferrous metals or petroleum, for example), backward integration almost certainly boosts profits. Nevertheless, because product innovation means adopting the most technologically advanced and cost-effective ways of making components, backward integration may entail a serious risk for a technologically active company-for example, a producer of sophisticated consumer electronics.

A company that decides to make rather than buy important parts can lock itself into an outdated technology. Independent suppliers may be unwilling to share innovations with assemblers with whom they are competing. Moreover, when an assembler sets out to master the technology of producing advanced components, the resulting demands on its resources may compromise its ability to assemble these components successfully into end products. Long-term contracts with suppliers can achieve many of the same cost benefits as backward integration without compromising a company's ability to innovate.

However, moving away from backward integration is not a complete solution either. Developing innovative technologies requires independent suppliers of components to invest huge sums in research and development. The resulting low profit margins on the sale of components threaten the long-term financial stability of these firms. Because the ability of end-product assemblers to respond to market opportunities depends heavily on suppliers of components, assemblers are often forced to integrate by purchasing the suppliers of components just to keep their suppliers in business.

58. According to passage, when an assembler buys a firm that makes some important component of the end product that the assembler produces, independent suppliers of the same component may

- (a) withhold technological innovations from the assembler.
- (b) experience improved profit margins of on sales of their products
- (c) lower their prices to protect themselves from competition
- (d) suffer finanical difficluties and go out of business.

- 59. Which of the following best describes the way the last paragraph functions in the context of the passage?
 (a) The last in a series of arguments supporting the central argument of the passage is presented.
 (b) A viewpoint is presented which qualifies one presented earlier in the passage.
 (c) Evidence is presented in support of the argument developed in the preceding paragrap.
 (d) Questions arising from the earlier discussion are identified as points of departure for further study of the index topic.
- 60. According to the passage, which of the following relationships between profits and investments in research and development holds true for producers of technologically advanced components?
 - (a) Modest investments are required and the profit margins on component sales are lowl. and to the sales are lowl.
 - (b) Modest investments are required but the profit margins on component sales are quite high.
 - (c) Despite the huge investments that are required, the profit margins on components sales are high.
 - (d) Because huge investments are required, the profit margins on component sales are low.