OPENMAT - XXVII : Entrance Test for Management Programmes 2010

February, 2010

14452

Total No. of Questions: 200 Time: 180 Minutes

- All questions are Compulsory.
- Use of calculator is not allowed. Rough work may be done in the space provided at the end of the Test Booklet.
- The Test Booklet has the following *four* tests :

Test - I General Awareness No. of Questions 30

Test - II English Language No. of Questions 50

Test - III Quantitative Aptitude No. of Questions 50

Test - IV Reasoning No. of Questions 70

Read the instructions given on the OMR Response Sheet carefully before you start.

How to fill up the information on the OMR Response Sheet (Examination Answer Sheet)

- 1. Write your complete enrolment no. in 9 digits. This should correspond to the enrolment number indicated by you on the OMR Response Sheet. Also write your correct name, address with pin code in the space provided. Put your signatures on the OMR Response Sheet with date. Ensure that the Invigilator in your examination hall also puts his signatures with date on the OMR Response Sheet at the space provided.
- 2. On the OMR Response Sheet student's particulars are to be filled in by pen. However use HB pencil for writing the Enrolment No. and Examination Centre Code as well as for blackening the circle bearing the correct answer number against the serial number of the question.
- 3. Do not make any stray remarks on this sheet.
- 4. Write correct information in numerical digit in Enrolment No. and Examination Centre Code Columns. The corresponding circle should be dark enough and should be filled in completely.
- 5. Each question is followed by four probable answers which are numbered 1, 2, 3 and 4. You should select and show only one answer to each question considered by you as the most appropriate or the correct answer. Select the most appropriate answer. Then by using HB pencil, blacken the circle bearing the correct answer number against the serial number of the question. If you find that answer to any question is none of the four alternatives given under the question, you should darken the circle with '0'.
- 6. If you wish to change your answer, ERASE completely the already darkened circle by using a good quality eraser and then blacken the circle bearing your revised answer number. If incorrect answer is not erased completely, smudges will be left on the erased circle and the question will be read as having two answers and will be ignored for giving any credit.
- 7. No credit will be given if more than one answer is given for one question. Therefore, you should select the most appropriate answer.
- 8. You should not spend too much time on any one question. If you find any particular question difficult, leave it and go to the next. If you have time left after answering all the questions, you may go back to the unanswered ones. There is no negative marking for wrong answers.

GENERAL INSTRUCTIONS

- 1. No cell Phones, calculators, books, slide-rules, note-books or written notes, etc. will be allowed inside the examination hall.
- 2. You should follow the instructions given by the Centre Superintendent and by the Invigilator at the examination venue. If you violate the instructions, you will be disqualified.
- 3. Any candidate found copying or receiving or giving assistance in the examination will be disqualified.
- 4. The Test Booklet and the OMR Response Sheet (Answer Sheet) would be supplied to you by the Invigilators. After the examination is over, you should hand over the OMR Response Sheet to the Invigilator before leaving the examination hall. Any candidate who does not return the OMR Response Sheet will be disqualified and the University may take further action against him/her.
- 5. All rough work is to be done on the test booklet itself and not on any other paper. Scrap paper is not permitted. For arriving at answers you may work in the margins, make some markings or underline in the test booklet itself.
- 6. The University reserves the right to cancel scores of any candidate who impersonates or uses/adopts other malpractices or uses any unfair means. The examination is conducted under uniform conditions. The University would also follow a procedure to verify the validity of scores of all examinees uniformly. If there is substantial indication that your performance is not genuine, the University may cancel your score.
- 7. In the event of your qualifying the Entrance Test, the hall ticket should be enclosed with your admission form while submitting it to the University for seeking admission in Management programmes along with your testimonials and programme fee. Admission forms received without hall ticket in original will be summarily rejected.

TEST - I GENERAL AWARENESS

1.	What (1) (2) (3) (4)	Associated Char Associated Char Associated Char Association of C	mbers mbers Chemi	of Comme of Chemic sts and Met	rce ar als an tallurg	nd Ind d Met gists	ustry	[etallurg	gists		
2.	Who (1)	is the author of Bill Clinton	the bo	ook "Romar Kapil Dev	_	with L (3)		(4)	Shashi Tharoor		
	,		,	•		, ,		(-)			
3.		it does the letters		and for in t	-						
	(1) (3)	Extended produ Experience	act		(2) (4)		a Pampering y level product				
4.	Pabl	o Picasso, the far	nous 1	oainter was	:						
	(1)	French	(2)	Italian		(3)	Flemish	(4)	Spanish		
5.	Which Mughal Emperor prohibited the use of tobacco ?										
	(1)	Baber			(2)	Jaha	ngir				
	(3)	Aurangzeb			(4)	Muł	nammed Shah				
6.	Which of the following does <i>not</i> have an Oil Refinery ?										
	(1)	Tarapore	(2)	Digboi		(3)	Barauni	(4)	Mangalore		
7.	The Nobel Prize for literature in the year 2009 was won by :										
	(1)	Ada Yonath			(2)		a Mueller				
	(3)	Carol Greider			(4)	Jean	-Marie Gustave	e le Clez	zio		
8.	The	year in which the	e first	man landed	d on t	he Mo	on was :				
	(1)	1962	(2)	1965		(3)	1969	(4)	1970		
9.		country rated hig	ghest	on the Hun	nan D	evelop	oment Index as	per the	UNDP, HDI-2009		
	(1)	Sweden	(2)	Norway		(3)	Australia	(4)	U.S.A.		
10.	The	first Indian sport	s won	nan to win	a med	al in V	World Athletics	is:			
	(1)	P.T. Usha	(2)	Shiny Wil	son	(3)	Anjali Bhagw	at (4)	Anju B. George		

11.	Dura	Durand Line is the line dividing :										
	(1)	Poland and Ger	many		(2)	Pakis	stan and Afghar	nistan				
	(3)	India and Tibet			(4)	Fran	ce and Germany	7				
12.	A so	uth Rajasthani tri	be ea	rning its livi	ing by	song	and dance:					
	(1)	Moors	(2)	Khasis		(3)	Garasia	(4)	Mayas			
13.	Duri	ng Cardiac failure	e, wh	ich of the fo	llowii	ng is a	dvised as a first	aid ?				
	(1)	Mouth to mouth	n resu	scitation	(2)	Givi	ng external cardi	iac ma	ssage			
	(3)	Giving cool water	er to (drink	(4)	Givi	ng complete bod	y mass	sage			
14.	The	video games Xbo	x is a	product of :								
	(1)	Sega	(2)	Sony		(3)	Intel	(4)	Microsoft			
15.	The			ce present ii	t in the bones and teeth of animals is:							
	(1)	Sodium chloride			(2)	Suga						
	(3)	Calcium phosph	nate		(4)	Calc	ium sulphate					
16.	Why	is it easier to swi	im in	sea than in	a rive	r ?						
	(1)	Density of sea w	vater	is lower tha	n the	densit	y of the river wa	ater				
	(2)	Density of sea w	vater	is higher tha	an the	densi	ty of the river w	ater				
	(3)	Waves in the sea	a help	us to float								
	(4)	River is less dee	per th	nan sea								
17.	Hyd	rogen was discov	ered l	oy:								
	(1)	Priestley	(2)	Boyle		(3)	Charles	(4)	Cavendish			
18.	Eudi	iometer is used fo	r mea	suring :								
	(1)	Volume changes	s in cl	nemical read	ctions	betwe	een gases					
	(2)	Electric current	of sm	all magnitu	de							
	(3)	Distance covered	d by v	wheeled veh	nicles							
	(4)	Measuring option	cal act	tivity								
19.	The	biggest Delta in tl	he wo	orld is the :								
	(1)	Sicily Delta	(2)	Ganges De	elta	(3)	Caspian Delta	(4)	Nippon Delta			

20.	D. Which part of the body is affected by "Meningitis" ?									
	(1)	Lungs			(2)	Inte	stines			
	(3)	Lining of the ch	est wa	all	(4)	Spin	al cord and Brain	n		
21.	Whi	ch is the world's	tallest	structure ?						
	(1)	KVLY-TV mast	(2)	Burj Khali	fa	(3)	Taipei Towers	(4)	CN Tower	
22.	Whi	ch company's fan	nously	advertised	visio	n state	ement is 'The Net	work	is the Computer'?	
	(1)	Cisco Systems			(2)	Luce	ent Technologies			
	(3)	Sun Microsyster	ns		(4)	Nor	tel Networks			
23.	The	Essar group of co	mpan	nies has beer	n pror	noted	by:			
	(1)	Ruias	(2)	Ambanis		(3)	Goenkas	(4)	Kanorias	
24.	The	acronym USB sta	nds fo	or:						
	(1) Universal System Board					Universal Synchronized Bus				
	(3) Universal Serial Bus				(4)	Uni	versal System Bus	6		
25.	'Mal	ke Believe' is the	tag lir	ne of which	comp	any ?				
	(1)	Philips	(2)	Motorola		(3)	Sony Ericsson	(4)	Nokia	
26.	Whi	ch is the third hig	ghest j	peak in Indi	ia ?					
	(1)	Kanchenjunga			(2)	Nanga Parbat				
	(3)	Gasher Brum			(4)	Dur	nagiri			
27.	The	country that acco	unts f	for nearly o	ne-thi	rd of	the total teak pro	ductio	on of the world is :	
	(1)	Bangladesh	(2)	Zambia		(3)	Myanmar	(4)	India	
28.	The	city that is the big	ggest	centre for m	nanufa	acture	of automobiles i	n the v	world ?	
	(1)	Gurgaon	(2)	Tokyo		(3)	Detroit	(4)	Berlin	
29.	Wor	ld Literacy day is	celeb	orated on :						
	(1)	8 th August			nber	(3)	8 th October	(4)	8 th July	
30.	The	place that is know	wn ac	the roof of	the w	orld :				
30.	(1)	Cuba	(2)	Japan	me w	(3)	Tibet	(4)	Romania	
	(*/	Subu	(-)	Jupun		(0)	11001	(-)		

TEST - II ENGLISH LANGUAGE

Directions for Questions 31 to 45:

This section consists of two passages followed by questions based on the contents of the passages. Answer the questions following each passage based on what is stated or implied in the passage.

Passage 1

Weathering refers to all the ways in which rocks can be broken down. It takes place because minerals formed in a particular way (say at higher temperatures, in the case of igneous rocks) are often unstable when exposed to various conditions. Weathering involves the interaction of the lithosphere (the Earth's crust) with the atmosphere and the hydrosphere (air and water). It occurs at different rates and in different ways, depending upon the climactic and environmental conditions. But all kinds of weathering ultimately produce broken minerals and rock fragments and other products of the decomposition of stone.

Soil is the most obvious and, from the human point of view, the most important result of the weathering process. Soil is the better part of the Earth's crust that is capable of sustaining plant life. Its character depends upon the nature of the rock from which it is formed. It also depends on the climate and on the relative "age" of the soil. Immature soils are little more than broken rock fragments. Over time, immature soil develops into mature soil, which contains quantities of humus, formed from decayed plant matter. Mature soil is darker, richer in microscopic life, and more conducive to plant growth.

- 31. The first paragraph primarily describes :
 - (1) a biological process
 - (2) the process by which rocks are broken down
 - (3) the weathering of igneous rocks
 - (4) gradual changes in the Earth's weather patterns
- **32.** The first paragraph suggests that :
 - (1) rocks are formed in a particular way
 - (2) minerals formed in some ways are unstable
 - (3) all minerals are unstable
 - (4) all rocks are unstable
- **33.** The main topic of the second paragraph is:
 - (1) the evolution of soil
 - (2) the growth of plants
 - (3) a description of immature soil
 - (4) a description of mature soil

- 34. The main idea of entire passage is that :
 - (1) weathering breaks down rocks and leads to the development of soil
 - (2) soils may be classified as mature or immature
 - (3) the process of soil development is more important to humans than is that of weathering
 - (4) the Earth's crust is constantly changing
- **35.** Weathering is primarily an interaction between:
 - (1) air and water
 - (2) the earth's crust and water
 - (3) the earth's crust and hydrosphere
 - (4) the climactic and environmental conditions

Passage 2

A recently issued report reveals in facts and figures what should have been known in principle, that quite a lot of business companies are going to go under during the coming decade, as tariff walls are progressively dismantled. Labour and capital valued at \$ 12 billion are to be made idle through the impact of duty free imports. As a result, 35,000 workers will be displaced. Some will move to other jobs and other departments within the same firm. Around 15,000 will have to leave the firms now employing them and work elsewhere.

The report is measuring exclusively the influence of free trade with Europe. The authors do not take into account the expected expansion of production over the coming years. On the other hand, they are not sure that even the export predictions they make will be achieved. For this presupposes that a suitable business climate allows the pressure to increase productivity materialise.

There are two reasons why this scenario may not happen. The first one is that industry on the whole is not taking the initiatives necessary to adapt fully for the new price situation it will be facing as time goes by.

This is another way of saying that the manufacturers do not realise what lies ahead? The government is to blame for not making the position absolutely clear. It should be saying that in ten years' time tariffs for all industrial goods imported from Europe will be eliminated. There will be no adjustment assistance for manufacturers who cannot adapt to this situation.

The second obstacle to adjustment is not stressed in the same way in the report; it is the attitude of the service sector. Not only are service industries unaware that the Common Market treaty concerns them too, they are artificially insulated from physical pressures of international competition. The manufacturing sector has been forced to apply its nose to the grindstone for some time now, by the increasingly stringent import liberalisation programme.

The ancillary services on which the factories depend show a growing indifference to their work obligations. These seem unaware that overmanned ships, underutilised ports, and repeated work stoppages slow the country's attempts to narrow the trade gap. The remedy is to cut the fees charged by these services so as to reduce their earnings—in exactly the same way that earnings of industrial undertakings are reduced by the tariff reduction programme embodied in the treaty with the European Community.

There is no point now in dismissing 15000 industrial workers from their present jobs during the coming decade, if all the gain in productivity is wasted by costly harbour, transport, financial, administrative and other services. The free trade treaty is their concern as well. Surplus staff should be removed, if need be, from all workplaces, not just from the factories. Efficiency is everybody's business.

36.	The	attitude of the report, as described	in the	e passage, may be best expressed as :								
	(1)	Harshly condemning, because inc	dustry	is not more responsive to the business climate								
	(2)	Optimistic, the government will o	compe	el the industry to make the required change								
	(3)	Objective, in assessing the influer	nce of	trade on employment								
	(4)	Pessimistic, that anything can be	done	to reduce the trade gap								
37.	Wha	at is the meaning of the term free tr	nde as	given in the passage ?								
	(1)	Unlimited sale of goods in Europ	e									
	(2)	Trade on a barter basis										
	(3)	The elimination of tariffs										
	(4)	Sale of price discounted goods to	Euro	pean countries								
38.		It can be inferred that the term adjustment assistance used in the paragraph, four mainly refers to:										
	(1)											
	(2)	some sort of financial assistance to manufacturers hurt by free trade										
	(3)											
	(4)	subsidy payments to increase exp	oorts									
39.	The	author's central recommendation s	seems	to be that:								
	(1)	redundant labour should be removed in all sectors										
	(2)	unemployment should be avoided at all costs										
	(3)	governments should control the service sector										
	(4)	4) tariffs should not be lowered										
40.	Which of the following will occur because of duty free imports?											
	(i)	12 billion dollars of capital will be										
	(ii)	Thirty five thousand workers wil		nemployed.								
	(iii)	15,000 firms will face bankruptcy	У									
	(1)	(i) only (2) (ii) only		(3) (i) and (ii) only (4) (ii) and (iii) only								
41.	Acc	ording to the passage, the governm	nent is	responsible for :								
	(1)	increasing tariffs	(2)	subsidising exports								
	(3)	not explaining its position	(4)	adjustment assistance								
42.	Tari	iffs will be reduced on :										
	(1)	all manufactured goods	(2) manufactured and agricultural goods									
	(3)	industrial and consumer goods	(4)	industrial goods								
OP		AT /F 1 40	6									

43.	Which industries will be affected by tariff reductions?											
	(i)	Services										
	(ii)	Manufacturing										
	(iii)	Extracting										
	(1)	(i) only	(2)	(ii) only	(3)	(i) and (ii) only	(4)	(i), (ii) and (iii)				
44.	The	ancillary services	have	been criticised in	the p	assage on accoun	t of :					
	(1)	failure to narrov	w the	trade gap								
	(2)	charging high fe	ee									
	(3)	not being respon	nsive t	to their work obli	gatior	ns						
	(4)	repeated work s	stoppa	iges								
45.	Whi	ch of the followin	ıg title	s describes the co	ntent	s of the passage ?						
	(1)	The prospects for	or free	e trade								
	(2)	The governmen	t inter	vention in world	trade							
	(3)	(3) Trade with the common market										
	(4)	What lies ahead	l ?									
	Dire	ctions for Questi	ons 46	6 to 50 :								
	Each phra	of these questions	consi the al	sts of a word in co ternatives, choose	•	,	-	alternative words or r in meaning to the				
46.	ABE	ET:										
	(1)	Conceive	(2)	Encourage	(3)	Evade	(4)	Protect				
47.	BAN	JAL :										
	(1)	Trite	(2)	Dramatic	(3)	Philosophical	(4)	Heedless				
48.	BUC	COLIC :										
	(1)	Diseased	(2)	Rustic	(3)	Repulsive	(4)	Cold				
40	CAI	I OTAL .										
49.		LLOW:	(0)	N (*) 1	(2)		(4)	N .1 C 1				
	(1)	Holy	(2)	Mild	(3)	Coloured	(4)	Youthful				
50.	FON	MENT:										
	(1)	Spoil	(2)	Instigate	(3)	Interrogate	(4)	Spray				

-	Each phra word	ctions for Questions of these questions ses. From among in capital letters in	·consi the al	sts of a word ternatives, cl		,	,	-		
51.		ANDIOSE : Docile Uncommunicati	ve		(2) (4)		nposing kely to occur			
52.	FNT	RENCH :								
o = .		Defy	(2)	Squander		(3)	Extinguish	(4)	Oust	
53.	IND (1)	USTRY : Pragmatism	(2)	Sloth		(3)	Abasement	(4)	Promptness	
54.		MONITION : Commendation	(2)	Premonition	on	(3)	Hallucination	(4)	Trepidation	
55.		ASSAUGED : Presumed	(2)	Deceptive		(3)	Faulty	(4)	Soothed	
	Each word	ections for Questions of these questions of set of words. This of the sentence	consist In eac	es of a sentend It case, choos						
56.		ic acid gives lemo								
	(1)	temperate	(2)	toxic		(3)	tart	(4)	bitter	
57.	Alfr	ed Hitchcock dire were <i>Psy</i>						drama	s; among the mo	st
	(1) (3)						ling ex ving bo	_		
58.	If a	ruby is	it _	t	tempo	orarily	lose its colour.			
	. ,	droppedscratched			. ,					
59.	То а	answer	_ is r	nore impor	tant t	han _				
	(1)	•		-		, ,	right	-		
	(3)	first fir	nishir	ig quickly		(4)	correct	you	r tınıshıng quick	y
60.	In t	he desert, dry cree	eks m	ay turn into	o ragi	ing	after he	eavy ra	ainstorms.	

(1) trickles

(2) streams (3) torrents (4) pools

	Each of these questions consists of a sentence with some portions underlined. Identify in each case, the underlined part that is not correct as per standard written English. Mark 0 if the sentence contains no error.
61.	The value of the rupee declines as the rate of inflation raises. (1) (2) (3) (4)
62.	The duties of the secretary <u>are to take</u> the minutes, <u>mailing</u> the correspondence and calling (1) (2) (3) the members <u>before meetings</u> . (4)
63.	Before she died, Mike Pereira's daughter who lives in the family mansion, used to take tourists (1) (2) (3) (4) to a tour of her house.
64.	The new model $\underline{\text{costs}}$ twice $\underline{\text{more than}}$ the $\underline{\text{last year's}}$ model. (1) (2) (3) (4)
65.	Although we <u>are concerned</u> about the problem of energy source we <u>must not fail recognising</u> (1) (2) (3) the need for <u>environmental protection</u> .
66.	Those of us who smoke should have their lungs x-rayed regularly. (1) (2) (3) (4)
67.	The more the relative <u>humidity rises</u> , the worst the heat <u>affects</u> <u>us</u> . (1) (2) (3) (4)
68.	Despite of many attempts to introduce a universal language, the effort has met with (1) (2) (3) very little success. (4)
69.	If Robert Kennedy <u>would have lived</u> a <u>little longer</u> he <u>probably would</u> have <u>won</u> the election. (1) (2) (3) (4)
7 0.	According to the programme prospectus, student housing is more cheaper than housing off

Directions for Questions 61 to 70:

campus.

(1)

(2)

(3)

(4)

Directions for Questions 71 to 75:

Each of these questions consists of a related pair of words in capital letters, followed by four alternative pairs of words. Select the pair that best expresses a relationship similar to that expressed by the pair in the capitalized letters.

- **71.** CITADEL:: DEFENSE:
 - (1) chapel::refreshment
 - (3) warehouse:: storage
- (2) marina:: refuge
- 4) pillar : : supervision
- **72.** APOSTATE:: RELIGION:
 - (1) traitor : : country
- (2) bureaucrat : : government

(3) jailor:: law

- (4) teacher:: education
- **73.** CAMOUFLAGE:: DISCERN:
 - (1) encode : : decipher
- (2) adorn::admire
- (3) renovate:: construct
- (4) magnify:: observe
- **74.** RUFFLE : : COMPOSURE :
 - (1) flounce : : turmoil
- (2) provoke : : discussion
- (3) upset : : equilibrium
- (4) adjust : : balance
- **75.** QUALIFY:: PARTICULAR:
 - (1) restrain:: effusive
- (2) mollify:: agreeable
- (3) acknowledge::specific
- (4) flout:: arbitrary

Directions for Questions 76 to 80:

Each of these questions consists of an Idiom followed by four alternatives. Select, in each case the alternative that gives the most appropriate meaning of the idiom.

- **76.** Get under way:
 - (1) Begin or start

(2) Take the under pass

(3) Interfere

(4) Get in the path of

- **77.** Off the cuff:
 - (1) Out of one's hands
- (2) Become free of responsibility

(3) Spontaneous

(4) Hands on

- **78.** Run of the mill:
 - (1) Extraordinary

(2) Manage the business

(3) Ordinary

- (4) Stock from the factory
- **79.** Give somebody the cold shoulder:
 - (1) Act unfriendly

(2) Become familiar

(3) Go too far

(4) Decline

- **80.** On pins and needles:
 - (1) On a very tight budget
- (2) In uncomfortable discussion
- (3) Nervous and anxious
- (4) Fine tuned for

TEST - III QUANTITATIVE APTITUDE

81.	If on	e-seventh of a nu	ımber	exceeds its elever	nth pa	rt by 100 then the	e num	ıber is :
	(1)	770	(2)		•	1825	(4)	1925
82.	betw	reen G and H. Th	iey we	ere climbing up ir	n a col	umn. Who was s	secono	_
	(1)	K	(2)	Н	(3)	G	(4)	J
83.	The	place value of 6 is	n the		s:			
	(1)	6	(2)	6304	(3)	6000	(4)	186
84.	. A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides ?							
	(1)	56	(2)	52	(3)	44	(4)	60
85.	were	2 2	lt the	quantity of rice h				day some students 6 : 5. How many
	(1)	24	(2)	20	(3)	15	(4)	25
86.	Expr	ess Rs. 25 as perc	entag	e of Rs. 75 :				
	(1)	3%	(2)	30%	(3)	0.3%	(4)	33.3%
87.		wker purchased oges in a rupee. H			orang	es in a rupee, bu	t he se	ells at the rate of 5
	(1)	20%	(2)	25%	(3)	50%	(4)	100%
88.	The	numbers which d	ivide	80 in such a way	that t	he sum of their re	ecipro	cals is $\frac{4}{75}$ are :
	(1)	40, 40	(2)	35, 45	(3)	30, 50	(4)	60, 20
89.	than		atural					ral number is less ghest value of the
	(1)	5	(2)	6	(3)	7	(4)	8
90.		e are 7 points in ed by using these	-		nem b	eing collinear. T	The nu	umber of triangles
	(1)	7	(2)	21	(3)	10	(4)	35

- **91.** In the international place value system we write one million for :
 - (1) 1 lakh
- (2) 10 lakhs
- (3) 100 lakhs
- (4) 1 crore

- **92.** The smallest natural number is :
 - (1) 0

(2) 1

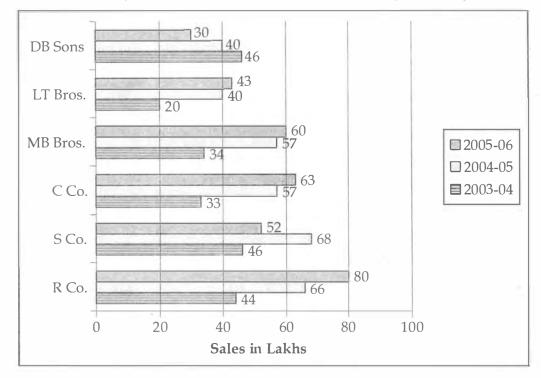
(3) 2

(4) - 1

- 93. How many four digit numbers are there?
 - (1) 99
- (2) 8999
- (3) 9999
- (4) 9000

- **94.** The value of $8967 \times 637 + 8967 \times 363$ is :
 - (1) 363000
- (2) 8967000
- (3) 2497680
- (4) 7967000

Study the following bar-graph and answer the questions (95-99) given below. (The diagram shows the sale of six shoe companies in three successive financial years.)



- 95. Which of the following shoe companies has a fluctuating sales figure over the given period?
 - (1) LT Brothers
- (2) DB Sons
- (3) C Company
- (4) S Company
- **96.** What is the total percentage increase in the sale of shoes in 2005–2006 with respect to 2004–2005?
 - (1) 4% fall
- (2) 4% rise
- (3) No change
- (4) 7% increase

97.	For the total 3-year period under consideration, the nearest competitor of R Company is :							
	(1)	C Company	(2)	MB Brothers	(3)	S Company	(4)	DB Sons
98.		the years 2003–20 ales?	004 ar	ad 2004–2005, wh	ich co	ompany has the r	ninim	um rate of change
	(1)	DB Sons	(2)	LT Brothers	(3)	R Company	(4)	C Company
99.		the years 2004–20 ales ?)05 an	d 2005–2006, wh	ich co	mpany has the n	naxim	um rate of change
	(1)	DB Sons	(2)	R Company	(3)	S Company	(4)	LT Brothers
100.	Rs. 6	640 is divided am	ong A	, B, C in the ratio	2:3	: 5 then B's share	is:	
	(1)	128	(2)	192	(3)	320	(4)	180
101.		numbers are in smaller number is		tio 3 : 4. On sub	tractir	ng 10 from each,	the ra	tio becomes 7 : 10.
	(1)	54	(2)	42	(3)	35	(4)	45
102.	A st	udent divided a	numb	her by $\frac{2}{3}$ when h	e is re	equired to multip	oly by	$\frac{3}{2}$. Calculate the
		entage of error in						
	(1)	0%	(2)	2%	(3)	5 %	(4)	6%
103.	If 2	: 9 : : <i>x</i> : 27 , then t	he va	lue of x is ·				
				140 01 11 15 .				
	(1)	6			(3)	10	(4)	12
	Ave	rage age of studer	(2)	8 an adult school is ol. As a result the	s 40 ye e avera	ears. 120 new stud age age is decreas	dents sed by	12 whose average age 4 years. Find the
	Ave	rage age of studer 2 years joined the	(2)	8 an adult school is ol. As a result the	s 40 ye e avera	ears. 120 new stud age age is decreas	dents sed by	whose average age
104.	Ave is 32 num (1)	rage age of studer 2 years joined the aber of students o	(2) this of school fithe second (2)	8 an adult school is bl. As a result the school after joinin 120	s 40 ye e avera g of th	ears. 120 new studage age is decreas he new students :	dents sed by	whose average age v 4 years. Find the
104.	Ave is 32 num (1)	rage age of studer 2 years joined the aber of students o 1200	(2) nts of school f the s (2)	8 an adult school is bl. As a result the school after joinin 120 nber which:	s 40 yes averag of the (3)	ears. 120 new studage age is decreas he new students :	dents sed by	whose average age v 4 years. Find the

106.	6. What least value should be given to * so that the number 6342*1 is divisible by 3?								
	(1)	0	(2)	1	(3)	2	(4)	3	
107.	The	smallest number v	which	when divided by	4, 6,	10, 15 gives the s	ame r	remainder 3 ?	
	(1)	57	(2)	123	(3)	63	(4)	39 .	
108.	,	273 = ?							
	(1)	-1	(2)	1	(3)	0	(4)	Not defined	
109.	The	maximum numbe	r of p	oints of intersection	on of	three lines in a pl	ane is	:	
	(1)	0	(2)	1	(3)	2	(4)	3	
110.	If A,	B, C are in propo	ortion	then:					
	(1)	$A^2 = BC$	(2)	$B^2 = AC$	(3)	$C^2 = AB$	(4)	ABC = 1	
111.	Sum	of two numbers p	orime	to each other is 20	and t	their L.C.M. is 99.	What	are the numbers?	
	(1)	8 and 12	(2)	14 and 6	(3)	19 and 1	(4)	11 and 9	
112.		_		-		my son's age. Matere 1240 years old	-	er is 40 years more fow old is Nepo?	
	(1)	80 years	(2)	120 years	(3)	240 years	(4)	360 years	
113.	One	of the base angles	s of ar	n isosceles triangle	e is 68	3. The vertical an	gle is	•	
	(1)	34	(2)	44	(3)	22	(4)	51	
114.	A ve	endor bought lemo	ons a t	6 for a rupee. He	ow ma	any for a rupee m	ust h	e sell to gain 20% ?	
	(1)	4	(2)	5	(3)	3	(4)	2	
115.	A ve	endor bought lemo	ons at	6 for a rupee and	sold 1	them at 4 a rupee.	His	gain percentage is :	
	(1)	50	(2)	40	(3)	33.33	(4)	None of these	
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116.	6. If the diameter of a wire is increased by 10%, by how much percent approximately, will its length be decreased, if the volume remains the same ?								
	(1)	15	(2)	16	(3)	17		(4)	19
117.	How	many circles can	be d	rawn to pass thro	ough t	hree non coll	inea	r poin	ts?
	(1)	1	(2)	2	(3)	3 (4)	As m	any as we please
118.	0.2 ×	$0.2 \times 0.2 = ?$							
	(1)	0.8	(2)	0.08	(3)	0.008		(4)	None of these
119.	The j	product of two ra	tional	numbers is $\frac{-8}{9}$.	If on	e of them is	$\frac{-4}{15}$ t	he oth	ner one is :
	(1)	10/3	(2)	-10 3	(3)	$\frac{-3}{10}$		(4)	$\frac{3}{10}$
120.	Two	complimentary a	ngles	differ by 6. The	meası	are of the sma	aller	angle	is:
	(1)	48	(2)	42	(3)	36		(4)	54
121.		ages of A and B a present age of B i		he ratio 7 : 5. Ter	ı years	s hence, the ra	atio c	of thei	r ages will be 9 : 7.
	(1)	25	(2)	35	(3)	45		(4)	20
122.	A su	m amounts to Rs	. 3584	in 219 days at 45	% per	annum simpl	le int	terest.	The sum is :
	(1)	3250	(2)	3500	(3)	3260		(4)	3400
123.	The	supplement of an	angle	e of 45 is :					

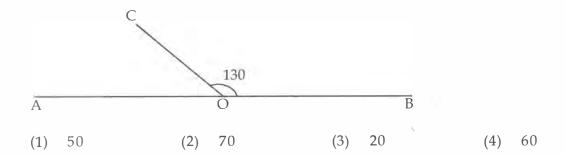
(1) 45

(3) 155

(4) 75

(2) 135

124. In the given figure AOB is a straight line and the ray OC stands on it. If angle BOC = 130 then angle AOC = ?



125. The length of a rectangle is 12 m and the length of its diagonal is 15 m. The area of the rectangle is :

- (1) 180
- (2) 90
- (3) 108
- (4) 120

126. The third proportional to 8 and 12 is:

- (1) 16
- (2) 18
- (3) 10
- (4) 48

127. A number when added to its two-thirds gives 65. The number is:

- (1) 39
- (2) 43
- (3) 37
- (4) 26

128. After 8 years Raj will be 3 times as old as he was 2 years ago. His present age is:

(1) 6

(2) 7

- (3) 9
- (4) 11

129. A number consists of two digits whose sum is 7. On subtracting 9 from the number its digits are interchanged. The number is :

- (1) 34
- (2) 43
- (3) 53
- (4) 35

130. The mean proportional between 6 and 24 is:

- (1) 96
- (2) 48
- (3) 12
- (4) 8

TEST - IV REASONING

Answer the Questions (131 to 134) after studying the following information:

	(i)	(i) There are six people in a family A, B, C, D, E and F. (ii) C is the wife of B and mother of F.								
	(iii)	F is the grandda			Γ.					
	(iv)	D is the grandn	0		nother	of B				
	(v)	There are two r								
131.	` /	t is C to A?		a couples in		arring				
	(1)	Mother	(2)	Grandmot	her	(3)	Daughter	(4)	None of these	
132.	How	w many male members are there in the family ?								
	(1)	2	(2)	3		(3)	4	(4)	None of these	
133.	Whic	ch of the following	ng is tı	ue ?						
	(1)	A is the sister o	f F		(2)	A is	the brother of F			
	(3)	B has two daug	ters		(4)	Non	e of these			
134.	Who	among the follo	wing i	s one of the	coup	oles ?				
	(1)	C and D	(2)	E and B		(3)	D and E	(4)	None of these	
	Read	l the following i	nform	ation to an	swer	the Q	uestions (135–13	8):		
	(i)	A, B, C, D, E and group.	d F are	e six membe	ers in	the far	nily. There are t	wo pai	rs of couples in the	
	(ii)	There are two en	_	rs, one teacl	ner, or	ne soci	ologist and two	artists.	Both the engineers	
	(iii)	A and C are the	e same	profession						
	(iv)	The teacher is n	narrie	d to the eng	ineer	and a	n artist is marrie	ed to th	ne lady sociologist.	
	(v)	A is an Artist.	E is a	male engine	eer. B	Both of	them are unma	rried.		
	(vi)	F is B's husband	d.							
135.	Who	is married with	the te	acher ?						
	(1)	F	(2)	С		(3)	A	(4)	В	
136.	Who	is sociologist by	profes	ssion ?						
	(1)	В	(2)	F		(3)	С	(4)	D	
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137.	Whic	ch of the following	g are	the pair of couple	es?			
	(1)	FD and BD	(2)	CD and FB	(3)	CD and FD	(4)	FC and AD
138.	What	t is the profession	of B	?				
	(1)	Engineer	(2)	Sociologist	(3)	Teacher	(4)	Artist
139.	Sudh	a's rank from bot	ttom i	n a class of 31 stu	ıdents	is 11th. What is	her ra	ank from the top ?
	(1)	21st	(2)	22nd	(3)	20th	(4)	19th
140.	From		morn	ing till 12 noon, l	now n	nany times will th	he pei	ndulum of a clock
	(1)	78	(2)	87	(3)	68	(4)	86
		nch of the follow ls, find out the su	_	-			ip is e	expressed in three
141.	India	: New Delhi : : I	Pakista	an : ?				
	(1)	Lahore	(2)	Islamabad	(3)	Peshawar	(4)	Hyderabad
142.	Taria	ntan : Muslin : : Po	oplin	: ?				
	(1)	Jute	(2)	Wool	(3)	Cotton	(4)	Rayon
143.	Flyin	ıg : Bird : : Creepi	ng : ?					
	(1)	Aeroplane	(2)	Snail	(3)	Ground	(4)	Flower
144.	Culp	rit : Crime : : Judg	ge : ?					
	(1)	Court	(2)	Case	(3)	Law	(4)	Verdict
145.	Luke	warm : Hot : : Pa	t:?					
	(1)	Fondle	(2)	Step	(3)	Worship	(4)	Scold

the question: **146.** Flower is to Bud as Fruit is to: (3) Flower (4) Twig (1) Taste (2) Seed **147.** Dam is to Mad as Drab is to: (2)Brab (3) Bard (4)Badr (1) Barb 148. 'Hour' is related to Second in the same way as 'Tertiary' is related to: (2) Secondary (3) Primary Intermediary (1)Ordinary (4)149. 'Dogs' bark so also 'Goats': (3) Grunt (1) Bleat (2) Crow (4)Howl **150.** 'Cuboid' is related to square in the same way as 'Square' is related to: (1) Plane (2) Triangle (3) Line Point (4)151. 'Horse' is related to Neigh in the same way as 'Jackal' is related to: (1) Bray (2) Howl (3) Chatter (4) Squeak 152. 'Water' is related to Ocean in the same way as 'Snow' related to: (1) Glacier (2) Ice (3) Hail Mountain (4)153. 'Breeze' is related to Cyclone in the same way as 'Drizzle' is related to: (1) Decay (2)Flood Heavy rain Spray

In the following Questions (146-150), decipher the relationship using given relationship in

154.	wha	t is related to D	etama	tion in the same	e way a	is Honour is	related to	Award ?	
	(1)	Punishment	(2)	Charge	(3)	Fault	(4)	Crime	
155.	Wha	t is related to 'St	udent	' in the same wa	y as 'V	enus' is relate	ed to Solar	System ?	
	(1)	Teacher	(2)	Class	(3)	Friend	(4)	Book	
156.	Wha	t is related to 'Ri	ver' in	n the same way a	as 'Sum	nmer' is relate	d to Winte	er?	
	(1)	Agriculture	(2)	Tree	(3)	Barren	(4)	Coast	
		ne following Qu tionship given in			l the n	nissing group	of letter	after studyin	g the
157.	TAL	K : YFHG : : MIN	ND : ?						
	(1)	RNJZ	(2)	RMNQ	(3)	QMRH	(4)	QMHR	
158.	ACE	EG : DFHJ : : ? : Z	ZXVT						
	(1)	WUSQ	(2)	SQOM	(3)	USQO	(4)	YWUS	
159.	CDE	: ZXY : : EDC :	?						
	(1)	ZXY	(2)	ZYX	(3)	XZY	(4)	YXZ	
160.	ACE	G : ZXVT : : HJL	N:?						
	(1)	TRPN	(2)	SQOM	(3)	OQSU	(4)	RPNL	
161.	LAK	E : PEOI : : MEA	AT: ?						
	(1)	PILO	(2)	REXO	(3)	QIEX	(4)	QEIX	
162.	LOS	E : MQVI : : GAI	N:?						
- ·	(1)	HCLR	(2)	GCLR	(3)	HCLS	(4)	HLCR	
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	in Q	uestions (163–168	8):							
163.	Cells	s : Cytology								
	(1)	Diseases : Physic	ology		(2)	Wor	ms : Ornithol	logy		
	(3)	Insects: Entomo	ology		(4)	Tiss	ues : Morphol	logy		
164.	Goos	se : Gander								
	(1)	Duck : Drake			(2)	Hen	: Chicken			
	(3)	Horse : Bridle			(4)	Don	ıkey : Bray			
165.	Inhe	rit : Acquire								
	(1)	Loss : Gain			(2)	Lear	rn : Discover			
	(3)	Instinct : Habit			(4)	Hie	rarchial : Succ	cession		
166.	Sum	mer : Raining								
	(1)	Monday : Sunda	ay		(2)	Sun	nmer : Winter			
	(3)	December : Janu	ıary		(4)	Lice	ence : Driving			
167.	Scal	p : Hair								
	(1)	Home : Cattle			(2)	Nai	l : Nailpolish			
	(3)	Green : Earth			(4)	Fur	: Cap			
168.	Mou	ıntain : Height								
	(1)	River : Water			(2)	Vall	ey : Depth			
	(3)	Moon : Shadow			(4)	Cav	e : Depth			
169.		ny year on 28th Fo	ebrua	ry is Tuesd	ay. If	the le	eap year is ex	cluded, th	en the day o	n 28th
	(1)	Sunday	(2)	Monday		(3)	Tuesday	(4)	Saturday	
170.	next	fic light at one par crossing changes t time they will a	after	every 30 se	econds	s. At	•			

Choose the pair of words that shows the same relationship as given at the top of every pair

(1) 120 seconds (2) 180 seconds (3) 90 seconds (4) 150 seconds

171.	In the Olympic Games, the flags of 6 nations were flown on the masts in the following way. The flag of America was found to the left of India Tricolour and to the right of the flag of France. The flag of Australia was on the right of the Indian flag but was to the left of the flag of Japan which was to the left of the flag of China. Find the two flags which are in the centre?								
	(1)	America and Inc	dia		(2)	Japai	n and Australia		
	(3)	America and Au	ıstrali	a	(4)	India	and Australia		
172.		be is painted on a ler cubes are pain				nto 64	cubes of equal si	ze. H	low many of these
	(1)	8	(2)	4		(3)	16	(4)	24
173.	In th	e context of prece	eding	question, ho	ow ma	any sn	naller cubes are n	ot pai	inted at all ?
	(1)	8	(2)	4		(3)	6	(4)	1
174.	In th		same	cube, how	man	y of t	hese smaller cub	es wo	ould have 3 sides
	(1)	6	(2)	4		(3)	8	(4)	12
175.		s are in front of							ing manner : two ck is between two
	(1)	11	(2)	9		(3)	7	(4)	3
176.		quantity of water y minutes will it b			les eve	ery mi	nute. It gets filled	d in 60	O minutes. In how
	(1)	20	(2)	30		(3)	40	(4)	59

177.	the n		e sam	e number of	f matcl				nimum number of traight line close to
	(1)	36 cm	(2)	32 cm		(3)	28 cm	(4)	24 cm
178.		ani's mother was e as old as Shivan						After 5	years, she will be
	(1)	10 years	(2)	5 years		(3)	15 years	(4)	12 years
179.	the a	•	first s	howing eas	t is no	w sh	owing south. A	A passe	in such a way that rby went in wrong now ?
	(1)	South	(2)	North		(3)	East	(4)	West
180.	A is	B's sister, C is B's	moth	er, D is C's f	ather,	E is I	O's mother. The	n how	is 'A' related to D ?
	(1)	Grand-father			(2)	Dau	ghter		
	(3)	Grand mother			(4)	Grar	nd Daughter		
181.	while	e others have yello	ow co the re	vers. ADB a st are old m	are nev	v voli	umes while the	rest are	have green covers old volumes. ACB nes are old medical
	(1)	ВС	(2)	CD		(3)	CE	(4)	EF

Study the trend in the following questions (182-190) and insert the missing number:

182.

28	60	48
5	6	7
14	39	27
7	?	16

- (1) 23
- (2) 24
- 27 (3)
- (4)18

1

83.	42	44	38
	23	55	28
	37	?	39

- (1) 77
- (2) 66
- (3) 22
- 33 (4)

184. 9, 11, 20, 31, ?, 82

- (1) 71
- (2) 51
- 60 (3)
- (4)41

185. 8, 13, 23, 43, 83, ?

- (1) 173
- (2) 183
- (3) 163
- 193 (4)

186. 225, 336, 447, ?, 669, 780

- (1) 114
- 338 (2)
- (3) 991
- 558 (4)

187.



(2) 2856

- (3) 5832
- 6464 (4)

(1) 4268

188.



(1) 6

- (2) 4
- (3) 7
- (4) 8

189.

2 B	3 C	5 B
5 C	8 B	17 A
13 A	15 A	?

- (1) 10 C
- (2) 13 B
- (3) 16 C
- (4) 20 A

190.

AZ	DW	GT
BY	EV	?
CX	FU	IR

- (1) KT
- (2) HS
- (3) JI
- (4) AD

Answer the Questions (191-195) based on the information given below:

A case is cut into two equal parts along a place parallel to one of its faces. One piece is then coloured red on the two larger faces and green on the remaining, while the other is coloured green on the two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of the same size. The 64 resultant cases are all mixed up.

- 191. How many cases have no coloured face at all?
 - (1) 8
- (2) 0

- (3) 16
- (4) 12

- 192. How many cases have only one coloured face each?
 - (1) 0
- (2) 8
- (3) 16
- (4) 32
- 193. How many cases have two red and one green face each?
 - (1) 0

 $(2) \quad 4$

(3) 8

- (4) 16
- 194. How many cases have each one red and another green face?
 - (1) 0

(2) 8

- (3) 16
- (4) 24
- 195. What is the number of cases with at least one green face each?
 - (1) 32
- (2) 36
- (3) 38
- (4) 40

Answer the Questions (196-199) based on the information given below:										
(i)	A, B, C or W ma	ıy cau	se D.							
(ii)	B, C or W may o	ause	E.							
(iii)	W and X may ca	use F								
(iv)	D or E may caus if D and E are ca			and I	E are	caused by B or	C; D or 1	E may cause I only		
(v)	Only E and F to	gether	may cause	M or	N.					
(vi)	F may cause H c	nly if	it is caused	by W	or X.					
Whic	h can result from	the la	argest numl	er of	imme	diately preced	ing even	its?		
(1)	D	(2)	E		(3)	F	(4)	M		
follow (1) How (1)	w immediately ar A many different e 5	(2) events	se that follo B or combina 6	ow afte	(3) of even (3)	other event ? C nts may cause I	(4) H? (4)	8		
Whic	th may be a resul	t of th	e smallest r	iumbe	r of d	ifferent combir	nations o	of events?		
(1)	G	(2)	Н		(3)	I	(4)	M		
Then to his		etres t	towards eas		v far a 7 km		rection i	res towards south. s he with reference		

- o O o -

196.

197.

198.

199.

200.

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK