OPENMAT (XXII) Entrance Test for Management Programmes 2007

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 back of the Test booklet.
- The Test booklet has the following 4 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 & 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 '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 Programme along with your testimonials and programme fee. Admission forms received without hall ticket in original will be summarily rejected.

TEST IV REASONING

Directions for Questions No. 131 - 135. Read the information given below and answer the questions given below it.

There are five persons A, B, C, D and E. One of them is a doctor, one is an engineer and another an executive. C and E are unmarried ladies and do not work. None of the ladies are engineers or doctors. There is a married couple in which D is the husband. B is neither an engineer nor an executive and is a male friend of A.

131.	Who is a doctor?		
	(1) A	(2)	D
	(3) B	(4)	\mathbf{C}
132.	Who is an executive?		
	(1) B	(2)	Α
	(3) D	(4)	C
133.	Who is an engineer?		
	(1) D	(2)	A
	(3) B	(4)	C
134.	Who is the wife of D?		
	(1) C	(2)	A
	(3) E	(4)	В
135.	The three ladies are		
	(1) A, B and E		

(2)

(3)

(4)

C, D and B

B, A and C

A, C and E

		ns for Questions No. 136 – 138. mbinations of three. Choose the se			contains six statements followed by four statements are logically related.
190.		All factorized are fruits.			
		All fruits are sweet.			
	C.	All apples are sweet.			
	D.	All apples are priced.			
	Ε.	All apples are red.			
	F.	All fruits are available.			
	(1)	ABC	(2)	BCD	
	(3)		(4)	DEF	
	(0)		(-)		
137.	Α.	All snakes are reptiles.			
2011		All reptiles are not snakes.			
		All reptiles are cold-blooded.			
		All snakes lay eggs.			
	E.	All reptiles lay eggs.		• •	
	F.	Snakes are cold-blooded.	•		
	(1)	ADE	(2)	BED	
	(3)	ABE	(4)	ACF	
138.	A.	Some men are bald.			
	В.	Bald men are intelligent.	4		
	C.	Raman is a man.			
	D.				
	E.	Raman is intelligent.			
	F.	All men are intelligent.			
	(1)	ABF	. (2)	BDE	
	(3)	CDB	(4)	EBF	

Directions for Questions No. 139 – 142: Which alternative applies to the following statements and their assumptions?

139. Statement:

A good system of education in a country is the flower of economic development; it is also its seed.

Assumptions:

- I. Economic development leads to educational development in a country.
- II. Educational development leads to economic development in a country.
- (1) Only I is implicit

- (2) Only II is implicit
- (3) Both I and II are implicit
- (4) Neither I nor II is implicit

140. Statements:

There are many Indians who are honest. Mohan is an Indian.

Assumptions:

- I. Mohan is honest.
- II. Mohan is not honest.
- (1) Only I is implicit

- (2) Only II is implicit
- (3) Both I and II are implicit
- (4) Neither I nor II is implicit

141. Statements:

- I. All birds are dogs.
- II. Some dogs are cats.

Assumptions:

- I. Some cats are not dogs.
- II. All dogs are not birds.
- (1) Only I is implicit

- (2) Only II is implicit
- (3) Both I and II are implicit
- (4) Neither I nor II is implicit

142. Statements:

There is one thing as important as studying. And that is how much is understood. Assumptions:

- I. Studying and understanding go hand in hand.
- II. Understanding is as important as studying.
- (1) Only I is implicit

- (2) Only II is implicit
- (3) Both I and II are implicit
- (4) Neither I nor II is implicit

143.		ving a is Vir							"Sh	e is the	daugh	ter of r	ny gra	ndfath	er's o	nly so	n."
	(1)	Fathe	r					((2)	Son							
	(3)	Broth	er					((4)	Mother							
144.		ducing					said	"He	r fa	ther is	the on	ly son	of m	y fath	er." I	Iow v	vas
	(1)	Broth	er					((2)	Father							
	(3)	Uncle	:					((4)	Son							
145.	In a	certai	n code	e CE	IAIR	is w	vritter	n as l	EGC	HT. Hov	w is A	UDIT	writter	n in th	at co	de ?	
	(1)	CTFH	łV					((2)	CSFHV	•						
	(3)	BTFF	IV					. ((4)	CTEHV	7			:			
146.		certai 6824						is wr	itter	as AQF	JL an	d 2568	3 is wri	tten a	s DM	PN. H	Iow
	(1)	QLPN	MJ					((2)	QLPNM	1F						
	(3)	QLPN	MNF					. ((4)	QLPNI	F						
147.		certa nat coo		e 'R	ATIO	ONA]	L'is v	writte	en a	s 'RTAN	IOLA'	. How	would	TRIB	AL b	e writ	ter
	(1)	TRIA	LB					((2)	TIRAL	В						
	(3)	TIRL	BA						(4)	TIRAB	L					** .	
148.	turn	nd B s s righ ting po	t and	valk wall	ing i ks 4	n op km	posite while	e dire B tu	ction rns	ns. A co left and	vers 3 walks	km a 3 km	nd B c . How	overs far is	4 km each	. Thei	n A
	(1)	$\sqrt{50}$	km						(2)	4 km							
	(3)	$\sqrt{100}$	km						(4)	8 km							
Dire	ction	s for (Quest	ions	No.	149	- - 155	: In	thes	se questic	ons, fin	nd the	missinį	g num	bers.		
149.	3	5	8 .	7													
110.	4	6	4	6													
	5	2	2	3													
	58	58	62	?													
	(1)	126							(2)	122							
	(3)	128							(4)	124							
	(0)	120							(x)	1.41							

150.	. 6, 15, 36, 75, ?		•	
	(1) 231	(2)	138	
	(3) 214	(4)	150	
151	5 . 7 9 90			
191.	5:7::?:28 (1) 20	(0)	14	
	(3) 56	(2)	14 65	
		. (4)		
152.	15, 45, ?, 405			
	(1) 90	(2)	75	
	(3) 135	(4)	51	
153.	5, 7, 11, 19,?			
	(1) 38	(2)	32	
	(3) 35	(4)	42	
154	2, 4, 12, 48,?			
101.	(1) 96	(2)	240	
	(3) 200	(4)	480	
		(1)	100	
155.	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{?}{}$			
			1	
	$(1) \frac{1}{64}$	(2)	$\frac{1}{32}$	
	$(3) \frac{1}{30}$	(4)	1	
	30	(4)	$\frac{1}{60}$	
156.	A cube is painted green on all sides.	It has	been cut into 64 cubes	of equal size. How many
	of these smaller cubes are painted on	one s	side only ?	
	(1) 8	(2)	4	
	(3) 16	(4)	24	
157.	In the context of the preceding questi	ion ho	w many smaller aubos	are not neinted at all 2
	(1) 8	(2)	w many smaller cubes	are not painted at all?
	(3) 6			
	(3)	(4)	1	
158.	In the context of the same cube, how painted?	many	of these smaller cube	s would have three sides
	(1) 6	(2)	4	
	(3) 8	(4)	12	
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		(3)	20										
		(4)	24	•									
	160.	In w	hat time v	vill a sum	of mone	y double	its	elf at 5% pe	er annum	n simple	interes	t ?	
-		(1)	10 years										
		(2)	20 years		* * *								
		(3)	15 years										
		(4)	17 years										
	161.							are 50 met n is 45 km			any will	be pass	sed
		(1)	3601										
		(2)	3599										
		(3)	360									•	
		(4)	3600										
	162.							nan Madhul is Madhuba			After 5	years, s	she
		(1)	10 years										
		(2)	5 years										
		(3)	15 years										
		(4)	12 years			*							
	163.	Two	men sta	rt togethe	er to wall	k a certa	in	distance, or	ne at 4 l	km/hour	and th	e other	at
		. 4						hour before	•				
		(1)	5 km										
		(2)	14 km										
		(3)	20 km										
		(4)	12 km					- 					
	164.	the	arrow whi	ch was fir	st showir	ng east is	s no	n an acciden ow showing tion is he ac	south. A	passerb	y went	a way t in a wr	ha ong
		(1)	South			(2	()	North					
		(3)	East			(4	.)	West					
	OPE	NMA	T <i>/</i> 07			(32) A					

159. If

63 + 25 = 1612 + 18 = 1223 + 17 = 13

Then 54 + 22 = ?

(1) 13 (2)

17

165.	How many meaningful words of alphabets are not repeated?	four letters	can be formed with letters EAML when th
	(1) 1	(2) 3	
	(3) 4	(4) 2	
166.	If 834726k is divisible by 8, the	value of k is	
	(1) 6	(2) 8	
	(3) 4	(4) 7	
167.	The value of the least prime nur	nber of four o	ligits is
	(1) 1001	(2) 1	003
	(3) 1007	(4) 1	009
168.	In a year 28 th February is Tues	lay. If the le	ap year is excluded, then 28 th March will be
	(1) Sunday	(2) M	onday
	(3) Tuesday	(4) S	aturday
169.	If $A = 1$, $FAT = 27$, then FAI	TH = ?	
	(1) 42	(2) 44	
	(3) 41	(4) 40	
170.	A glass full of milk weighs one ki What is the weight of the glass?	ogram and tl	ne glass half full of milk weighs $\frac{3}{4}$ kilogram
	$(1) \frac{1}{4} \text{ kg}$	$(2) \frac{1}{2}$	kg
	(3) $\frac{1}{8}$ kg	$(4) \frac{1}{3}$	kg
171.	If $a * b = a + b - ab$, the value	of 1 * 2 is	
	(1) 0	(2) 2	
	(3) 1	(4) 5	
172.	At what angle, are the hands inc	ined, when t	he time is 30 minutes past 4 o'clock?
	(1) 60°	(2) 45	
	(3) $42\frac{1}{2}^{\circ}$	(4) 50	
173.	Through what degree does any he	our hand shif	t in half an hour ?
	(1) 30°		
	(2) 99°		
	(3) 180°		
	(4) 15°		

174.	The sum upto 50 terms of the following	lowing series	
	3 + 2 - 5 + 3 + 2 - 5 + 3 + 2 -		
	(1) 5		
	(2) 3		
	(3) 2		
	(4) 250		
175.	What is the minimum number of Two ducks are in front of one; two ducks.	ducks which can swim	n in the following manner: duck and one duck is between two
	(1) 11		
	(2) 9		
	(3) 7		
	(4) 3		
176.	What is the value of $\frac{P+Q}{P-Q}$ if	$\frac{P}{Q} = 7?$	
	$(1) \frac{4}{3}$	(2) $\frac{2}{3}$	
	(3) $\frac{5}{6}$	$(4) \frac{7}{8}$	
	ections for Questions No. 177 - the odd man out.	178 : Unscramble the	letters in the following words and
177.	, (1) AYM	(2) UEJN	
	(3) UYLJ	(4) UNYASD	
178.	. (1) SERO	(2) RNEOAG	
	(3) AONMG	(4) ERPA	
179.	. The greatest number of seven di	gits 5, 4, 0, 3, 2, 8, 6 ı	used only once is
	(1) 5403286	(2) 8654302	
	(3) 8654320	(4) 8654230	
180	. The least number of seven digits	s by using the digits 5,	4, 0, 3, 2, 8, 6 only once is
	(1) 0234568	(2) 2034568	

181. The difference between the greatest number and the least number of five digits by using the digits 0, 1, 2, 3, 4 only once is

(4)

(1) 41076

(3)

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(2) 32976

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(3) 40976

(4) 33976

(34)

2345680

Directions for Questions No. 182 - 188. In each of the following questions a certain relationship exists between the two words on the LHS. Determine the suitable word from the given options for RHS. 182. Doctor: Nurse::?: Follower (1)Worker (2)Leader (3)**Employer** (4) Union 183. Sorrow: Death:: Happiness:? (1) Cry Birth **(2)** (3)Love (4)Dance **184.** Bird : Fish : : Aeroplane : ? Submarine (1)(2)Ship (3)Boat (4)Crocodile 185. Sculptor: Statue:: Poet:? (1) Chisel (2)Pen (3)Verse (4) Lane 186. Medicine: Sickness:: Book:? (1)Ignorance (2)Knowledge Author (3)(4)Teacher **187.** Cunning : Fox : : Timid : ? (1)Elephant (2)Rabbit (3)Leopard (4) Ass

(1)

(3)

188. Annihilation: Fire:: Cataclysm:?

Earthquake

Emergency

(2)

(4)

Steam

Flooding

Directions for Questions No. 189 – 193: In each of the following questions four pairs of words are given out of which the words in three pairs have a common relationship. Choose the pair in which the words are differently related.

189.	(1)	Beautician	:	Parlour										
	(2)	Chemist		Medicine								÷		
	(3)	Lawyer	:	Court										
	(4)	Painter	:	Gallery										
190.	(1)	Time	:	Seconds										
	(2)	Resistance	:	Ohm										
	(3)	Pressure	:	Baromete	r									
	(4)	Length	:	Metre										
191.	(1)	Gnu	:	Antelope										
	(2)	Pelican	:	Reptile										
	(3)	Elk	:	Deer										
	(4)	Shark	:	Fish				•						
192.	(1)	Waist	:	Belt										
	(2)	Neck	:	Tie										
	(3)	Wrist	:	Band										
	(4)	Shoe	:	Laces										
193.	(1)	Avesta	:	Parsi					-					
	(2)	Torah	:	Jew						-	•			
	(3)	Tripitaka	:	Buddhist										
	(4)	Temple	:	Hindu	•									
194.		a certain cod		ABILIZE'	is w	ritten	as UV	CDKNE	KUG.	How	would	CRIC	CKET	be
	(1)	DSJDLFS				(2)	KTMEV	VGV						
	(3)	ETKEMGV				(4)	EKTMI	EGV						
195.		a certain code v is CANDID.						HP and	d LA	rur i	s writte	en as	RULA	T
	(1)	ETCANDID	A			(2)	ETADI	DNAC						
	(3)	CANDIETA	D			(4)	TECAN	IDIDA						

196.	If GODAVARI is coded as KSHEZEVM, how can NARMADA be coded?
	(1) REQUHE
	(2) REVQEHE
	(3) RDVQEHE
	(4) REUPEHE
197.	Five boys took part in a race. Ram finished before Mohan but behind Gopal. Abbas finished before Sailesh but behind Mohan. Who won the race?
	(1) Ram
	(2) Gopal
	(3) Mohan
	(4) Abbas
198.	In a row of girls, if Seeta who is 10 th from the left and Lina who is 7 th from the right, interchange their seats, Seeta becomes 15 th from the left. How many girls are there in the row?
	(1) 17
	(2) 20
	(3) 22
	(4) 21
199.	Ashok started walking towards north. After walking 30 metres he turned left and walked 40 metres. He then turned left and walked 30 metres. He again turned left and walked 50 metres. How far was he from his original position?
	(1) 12 m
	(2) 15 m
	(3) 10 m
	(4) 20 m
200.	A police inspector drove 30 km towards west and then 40 km towards south. From this place, he drove 60 km towards east and then 40 km towards north. At what distance is he from the starting point?
	(1) 30 km
	(2) 50 km
	(3) 60 km
	(4) 130 km

SPACE FOR ROUGH WORK