NEEDS ACADEMY CMAT Model Entrance Examination

Instructions

There are multiple-choice questions, each having four choices of which only one choice is correct.

Fill (the most probable one.

Direction: In the following Questions, choose the word which best expresses the

meaning of the capitalized word.

1.	DECISIVE					
	a) Cruel	b) Definite	c) Deliberate	d) Firm		
2.	RACKET					
	a) Trick	b) Approach	c) Fraud	d) Bulge		
3.	PRECEDENT					
	a) Chief	b) Accomplish	c) Proof	d) Example		
4.	HERALD					
	a) Announce	b) Deprive	c) Cultivate	d) Curse		
5.	DWINDLE					
	a) Lesson	b) Lumpen	c) Itch	d) Lessen		
Comp	lete the following sentence	s with the appropri	iate choice form amon	g the options that follow:		
6.	The notice clearly states t	hat trespassers will	lbe			
	a) Persecuted	b) Persuaded	c) Prosecuted	d) Pervadeds		
7.	The police burst tear gas shells to the mob.					
	a) Apprehend	b) Divert	c) Disturb	d) Disperse		
8.	The dose of sleeping pill	s proved and	he died in sheep.			
	a) Disastrous	b) Fatal	c) Effective	d) Efficacious		
9.	The thieves tried to with the lock but they did not succeed in breaking it.					
10	a) Tamper	b) Temper	c) Fiddle	d) Temperature		
10.	A referee should be if	h) Disinterested	e match.	d) Participativo		
Each o	a) Oninterested	an idiom or a phras	c) involved	u) Farticipative		
2	lettered expression that n	nost nearly express	ed the meaning of the	given idiom or phrase.		
11.	To bring to light		Ū.			
	a) To open a window		b) To reve	eal the facts		
	c) To switch on the light		d) To dra	d) To draw the curtains		
12.	To see red					
	a) Stop at the signal		b) Jump t	he red signal		
	c) To be very angry d) To suffer from color blindness					
13.	Roots and branch					
	a) Entirely	b) Step by step	c) Part by part d) I	Bare truth		
14.	In full cry					
	a) To be upset about some	ething	b) Howlin	ng loudly		
	c) At a fast pace	d) At one's best				
15.	Into the bargain	to the bargain buy goods from sales b) An additional benefits				
	a) buy goods from sales					

c) A warranty card d) At no extra charge

The following paragraph has a number of blanks marked 16, 17, 18, 19 and 20 followed by a set of options. Mark the options that best complete the blanks.

The average new born 16..... is about fifty centimeters long in twenty years, this little body more than triples17...... in length. The average height of a man is 1.7 meters. 18.... man does not stop growing; he continues to grow even after the19.... of twenty five and reaches his maximum height at about the age of thirty five. An average person shrinks as much as tem millimeters20... ten years after the age of forty.

16.	a) body	b) infant	c) kid	d) child
17.	a) itself	b) around	c) over	d) last
18.	a)since	b) yet	c) though	d) however
19.	a) ages	b) years	c) age	d) period
20.	a) in	b) after	c) every	d) usually

The passage given below is followed by questions based on its contents. After reading the passage, choose the best answer the question.

It is a process in the human sciences that we must look to undo the evils which have resulted from the knowledge of physical world hastily and superficially acquired by population unconscious of the changes in themselves that the new knowledge has imperative. The road to a happier world than any known in the past lies open before us if atavistic destructive passions can be kept in leash while the necessary adaptations are made.

Fears are inevitable in time, but hopes are equally rational and far more likely to bear good fruit. We must learn to think rather less of the dangers to be avoided than of the good that will lie within our grasps if we can believe in it and let it dominate our thoughts. Science, whatever unpleasant consequences it may have by the way, is in its very nature a liberator, a liberator of bondage to physical nature and in time to come, a liberator from the weight of destructive passions. We are on the threshold of utter disaster or unprecedently glorious achievement. No previous age has been fraught with problems so momentous, and it is to science that we must look to for a happy future.

21. What does science liberates from? It liberates us from

a) Fears and destructive passions.

b) Slavery to physical nature & from passions.

c) Bondage to physical nature.

d) Idealistic hopes of glorious future.

22. Should human sciences be developed because they will

a) Provide more knowledge of the physical word

b) Make us conscious of the changing in ourselves

c) Make us conscious of the changing in ourselves

d) Eliminate the destruction caused by a superficial knowledge of the physical world.

23. If man's bestial yearning is controlled

a) The future will be tolerableb) The present will be brighter than the futurec) The future will be brighter than the presentd) The present will become tolerable

24. Fears and hopes according to the author

a) are closely linked with the life of modern man b) can bear fruit c) can yield good results d) are irrational To crave out the bright future man should 25. a) Analyze dangers that lie ahead b) Try to avoid danger c) Overcome fear & danger d) Cultivate a positive outlook **Ouantitative Ability** 26. Given that 100 milliliters is equal to approximately 0.4 cup, 205 milliliters is equal to approximately how many cups? Which of the following expressions models the solution to the problem above? a) 100-0.4 (205) b) 105 % of 0.4 d) 205 % of 0.4 c) 205-100 (0.4) 18% of the students at a school are in Year 8, and 16% of the students are in Year 9. If the school 27. has 8 students, determine the number of Year 9 students. a) 108 b) 110 c) 112 d) 114 28. The exam scores of all 500 students were recorded and it was determined that these scores were normally distributed. If Jane's score is 0.8 standard deviation above the mean, then how many, to the nearest unit, students scored above Jane? b)250 c) 394 a)106 d)400 29. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs? a) 6.25 b) 6.5 c) 6.75 d)7 In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one 30. bag of the husk? a) 1/40 b) 1 c) 40 d) 80 31. A sum of money at simple interest amounts to Rs 815 in 3 years and to Rs 854 in 4 years. The sum is a) Rs 650 b) Rs 690 c) Rs 698 d) Rs 700 32. The difference between simple interest and compound interest annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum in Rs. is a) 625 b) 630 c) 640 d) 650 $\left(\frac{1}{2}\right)\left(\frac{5}{6}\right)\left(\frac{8}{5}\right) =$ 33. a) $\frac{5}{12}$ d) $\frac{4}{2}$ b) $\frac{1}{2}$ c) $\frac{2}{2}$ 34. If $5^{a} = 3125$, then the value of $5^{(a-3)}$ is a) 25 b) 125 c) 144 d) 150 A homeowner is planning to use carpet tiles to cover the floor of a room measuring 9 feet by 10 35. feet 8 inches. If the carpet tiles are 8 inches wide & 1 foot long and there are no gaps between the tiles as they are placed on the floor, how many carpet tiles will the homeowner need to cover the floor of the room? a) 100 b) 125 c) 144 d) 150 36. Seats for mathematics, Computer and Accounting in a school are in the ratio 5:7:8. There is a proposal to increase these seats by 40 %, 50 % and 75 % respectively. What will be the ratio of increased seats? a) 2:3:4b) 6:7:8 c) 6:8:9d) None of these Look at this series : 7, 10, 8, 11, 9, 12, ... What number should come next? 37. a) 7 b) 10 c)12 d) 13

Look at the series: 58, 52, 46, 40, 34,..... What number should come next? 38. b) 28 c) 30 d) 32 a) 26 39. If 6x + 5 = -x + 40, then b) x = -5a) x = -9c) x = 5d) x = 5The slope of the line determined by the equation 3x + y = 4 is 40. a) -3 b)1/3 c) 3/4d) 3 41. The three solutions of the equation f(x) = 0 are -2, 0 and 3. Therefore, the three solutions of the equation f(x - 2) = 0 are a) -4, -2 & 1 b) -2, 0 & 3 c) 4, 2 & 5 d) 0, 2 & 5 The function is defined by $f(x) = x^5 - 1$, then f^{-1} , the inverse function of f, is defined by $f^{-1}(x) = x^5 - 1$ 42. a) $\frac{1}{\sqrt[5]{x+1}}$ b) $\frac{1}{\sqrt[5]{r+1}}$ c) $\sqrt[5]{x-1}$ d) $\sqrt[5]{x+1}$ The set of all points (e^t , t) where t is a real number, is the graph of y =43. a) $\frac{1}{at}$ b) $e^{\frac{1}{t}}$ c) $te^{\frac{1}{t}}$ d) in t 44. Simplify: (Z⁶) (Z⁻²) d) Z⁻¹² a) Z³ b) Z⁴ c) Z⁸ 45. There are 5 numbers in a data series. First number of the data series is 14 and mean, median and mode are 10, 9 and 6 respectively. Find the 5 numbers. a) 14, 6, 9, 6, 5 b) 14, 9, 9, 9, 9 c) 14, 9, 10, 8, 9 d) 14, 9, 9, 6, 12 46. When a metallic ball bearing is placed inside a cylindrical container of radius 2 cm, the height of the water inside the container increases by 0.6 cm. The radius to the nearest tenth of a centimeter of the ball bearing is a)1 cm b) 1.2 cm c)2 cm d) 0.6 cm 47. The probability that an electronic device produced by a company does not function properly is equal to 0.1. If 10 devices are bought then the probability to the nearest thousandth that 7 devices function properly is b) 0.470 c) 0.001 a) 0.057 d) 0 in a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the 48. probability that it is neither red nor green? a) 1/3 b) 3⁄4 c) 7/9 d) 8/21 Given a sequence 1, 4, 9, 16, 20, 36, 49, find the odd one out 49. a) 29 b) 9 c) 20 d) 49 50. A school committee consists of 2 teachers and 4 students. The number of different committees that can be formed from 5 teachers and 10 students is a) 8 b) 10 c) 15 d) 21 LOGICAL REASONING Drug addicts are hated because they are criminal. 51. a) All who hated are drug addicts b) All criminals are hated c) All hated are criminals d) Some criminals are hated 52. "Make hav while sun shines." a) Sleep when you are tired b) Jump when you are dancing c) Take the flood at its tide d) Entering hope when others help I. I know a professor of the university. II. He has beard 53. Interference: All the professor of the university have beard. a) the interference is definitely true b) the interference is definitely false c) the interference is neither true nor false

d) interference cannot be drawn

a) Only either I or II follows

Statements: Some blankets are beds. Some pillows are blankets. All beds are pillows. 54.

Conclusion: I. Some blankets are pillows. II. Some pillows are bed

III. Some beds are blankets.

b) Only I and either II or III follows

c) Only III & either I or II follows d) All I, II & III follows

Reentry occurs when a person leaves his or her social system for a period of time and then 55. returns. Which situation below the best describes Reentry?

a) When he is offered a better paying position, Yadav leaves the restaurant he manages to manage a new restaurant on the other side of the town.

b) Sita is spending her junior year of college studying abroad in France.

c) Arjun is readjusting to civilian life two years of overseas military service.

d) After several miserable months, Seema decides that she can no longer share an apartment with her roommate Hilary.

"Don't take sugar because you have diabetes." The statement given above is logically similar to 56. which of the following statement?

a) Do not play as you are hurt

b) Do not read as you have weak eye sight.

c) Do not sing as you have hoarse throat.

- d) Do not speak as you are not asked to speak.
- A basket has as many mangoes as it has oranges. Three-fourth of the fruits are yellow. One half 57. of the fruits are ripe. Which of the following statement is definitely true?

a) All fruits are ripe. b) At least one half of the oranges are yellow

c) All mangoes are ripe d) None of these

An informal Gathering occurs when a group of people get together in a casual, relaxed manner. 58. Which situation below is the best example of an Informal Gathering?

a) The book club meets on the first Thursday evening of every month.

b) After finding out about his promotion, Jeremy and a few coworkers decide to go out for a quick drink after work.

c) Mary spends out 25 invitations for the bridal shower she is giving for her sister.

d) Whenever she eats at the Mexican restaurant, Clara seems to run into Peter.

59. A Tiebreaker is an addition contest or period of play designed to establish a winner among tied contestants. Which situation below is the best example of a Tiebreaker?

a) At halftime, the score is tied at 28

b) Mary and Megan have each scored three goals in the game

c) The referee tosses a coin to decide which team will have possession of the ball first.

d) The Sharks and the Bears each finished with 14 points, and they are now battling it out in a fiveminute overtime.

Statements: 60.

I: The police authority has recently caught a group of house breakers.

II: The citizens group in the locality have started night vigil in the area.

a) Statement I is the cause & statement II is its effect.

b) Statement II is the cause & statement I is its effect.

c) Both statement I & II are independent causes

d) Both statement I & II are effects of independent causes

61. Statements:

I: There is sharp decline in the production of oil seeds this year.

II: The Government has decided to increase the import quantum of edible oil.

a) Statement I is the cause & statement II is its effect.

b) Statement II is the cause & statement I is its effect.

c) Both statement I & II are independent causes

d) Both statement I & II are effects of independent causes

Larry has purchased a device that the manufacturer claims will reduce the fuel consumption in his car. After a month has passed Larry determines that his mileage currently rests at 17 miles per gallon. Larry's best friend, Steve, owns the exact same make and model car, and has calculated his mileage at 23 miles per gallon . Steve's car does not have the device that Larry purchased one month ago. Larry then makes the conclusion that the manufacturer of the device's claim is not true.

- Which of the following statements would cause Larry's conclusion to be the weakest? 62.
 - a) Though Larry has the same make and model of car as Steve, Larry's car is 15 years old.
 - b) Larry was driving in the city, whereas Steve drives the highway
 - c) Larry purchases a lower grade of gasoline than Steve
 - d) Steve lied, he actually only gets 15 miles per gallon

Read the following passage and answer the following (Ouestion no. 63-66)

A petrochemical plant manufactures a range of hazardous chemical products and must therefore follow strict guidelines concerning how each of the chemicals may interact with one another on a daily basis. The plant processes five different chemicals every week. Three of these chemicals can be processed on any given day.

Xenon may be processed any day except for every Monday and every other Thursday.

Oxygen can be processed only on Tuesdays and Wednesdays.

Liquid hydrogen may be processed on Mondays, Wednesdays and Fridays.

Sulphur dioxide can't be processed on Friday.

Methane can't be processed on Wednesday.

- 63. What are the three chemicals that can be processed on any given Monday?
 - a) Liquid Hydrogen, Xenon & Oxygen
 - b) Methane, Oxygen & Sulphur dioxide
 - c) Xenon, Oxygen & Sulphur dioxide
 - d) Sulphur dioxide, Methane & liquid Hydrogen
- Which weekday is mostly likely to be impossible for three chemicals to be processed in one day? 64. d) Thursday
 - a) Monday b) Tuesday c) Wednesday
- 65. There are three chemicals that can be processed on a Friday. What are they?
 - a) Oxygen, methane & liquid hydrogen
 - b) Liquid Hydrogen, methane & Xenon c) Methane, Oxygen & xenon
 - d) Liquid Hydrogen & Sulphur dioxide
- On which days of the week can they process liquid hydrogen and only additional two 66. chemicals?

a) 2Monday & Tuesday b) Tuesday & Thursday

- c) Wednesday & Friday d) Monday & Friday
- If FRAGRANCE is written as SBHSBODFG, how can IMPOSING be written? 67. a) NOPTIHOJ b)NOPTIOHI c) NOTPIOHI d) NOTIOHI
- 68. If ROBUST is coded as QNATRS in a certain language, which word would be coded as ZXCMP? c) BZEOR a) AYDNO b) AWDLO d) YYBNO
- If BE quick is coded as ZC OSGAL, then the code of the last letter of the third word is the 69. sentence I LOVE MY COUNTRY is
 - c) Y d) W b) T a) A
- 70. If ZEBRA can be written as 2652181, how can COBRA be written? a) 302181 b) 31822151 c) 3152181 d) 1182153

Question 71 & 75 follows the given pattern. Select the appropriate pattern.

Horse : Mare :: 71. a) Fox : Vixen b) Duck : Geese c) Dog : Puppy d) Donkey : Pony

72.	Cricket : Pitch ::		1 \					
	a) Ship : Dock	d) Wrostling	D)	Boat : Harbour				
73.	Oceans : Deserts ::	Waves :	. IIdek					
	a) Dust	b) Sand dun	es c) Ripples	d) Sea				
74.	Grain : Stock :: Sti	ck:?						
	a) String	b) Heap	c) Collection	d) Bundle				
75.	a) Plane	b) Triangle	ay as square is relate	d) Point				
76.	Nepal's Best Bank	of the Year 2021 was	awarded to	uj i olin				
	a)NMB Bank		b)	Nepal SBI Bank				
	c) Nepal Investmer	it bank	d)	d) Megha Bank				
77.	Who was the winn	Who was the winner of Madan Pursrsakar 2076?						
	c) Bhagiram Ingnam	d) Satva Mo	ban Ioshi	b) Chandra Prakash Baniya				
78	Enicentre of COV	D-19 was						
70.	a) Beijing	b) Xingning	c) Wiiwoi	d) Wuhan				
70	First Case of COV	D 19 in the World w		a) wanan				
19.	a) 20th December	b) 20th Decemb		abor d) 20th Decomber				
00	a) 50 ^m December	D) 29 th Decenit	Der CJS1 st Decem	iber u) 28 th December				
80.	Human Kights Da	y is celebrated on						
01	a) December 10	b) December 2	0 c) October 8	d) November 9				
81.	1. What is the standard time of Nepal?							
	a) +5 : 45 hrs GMT	b) +5 : 3	30 hrs GMT					
	c) +5 : 15 hrs GMT d) +5 : 00 hrs GMT							
82.	Which is the large	Which is the largest reserve of Nepal?						
	a) Annapurna Hunting Reserve b) Parsa Wildlife Reserve							
	c) Dhorpatan Hunt	c) Dhorpatan Hunting Reserve d) Koshi Tappu Wildlife Reserve						
83.	Which one is the n	ational game of Aus	tralia?					
	a) Archery b) He	ockey	c) Cricket d) Hors	e riding				
84.	Which country fire	Which country first provided the voting rights to the women?						
	a) France	b) New Zealand	c) Switzerland	d) Russia				
85.	Which is the largest university in the world?							
	a) Harward Univer	a) Harward University b) Moscow University						
	c) Standford Unive	rsity	d) Oxford University					
86.	Who is the first Fi	lm Director in Nepal	?	-				
	a) Suchita Shrestha	-	b) Dinesh D.C					
	c) Shivahari Poude	1	d) Bhuwan KC					
87.	When was World	Cup football started?	-,					
	a) 1920 AD b) 1926	a) 1920 AD b) 1926 AD c) 1932 AD d) 1930 AD						
88.	France beat Croati	a in World Cup Footl	ball 2018 AD with th	e score				
00.	a) 4-1	b) 3-1	c) 4-2	d) 3-2				
89	Glossology is the	tudy of	012	4,52				
0).	a) Languago	b) culture	c) grasses d) glan	łe				
	a) Language	b) culture	cj grasses uj gran	10				

90.	Who is the father of quantum theory?						
	a) Albert Einstein b) Max Plank c) Rohmer d) Sir Issac Newton						
91.	' I Have a Dream' is a famous speech of						
	a) Rabindranath Tagore b) Leonardo Da Vinchi						
	c) Martin Luther King d) Barack Obama						
92.	Which Vitamin is found in ripe fruits & green vegetables?						
	a) Vitamin A b) Vitamin B1 c) Vitamin K d) Vitamin B2						
93.	SMPT stands for						
	a) Simple Mode Transfer Protocol						
	b) Simple Mail Transfer Protocol						
	c) Simple Mode Transmission Protocol						
	d) Simple Mail Transmission Protocol						
94.	The country without coin is						
	a) Czech Republic b) Paraguay c) Finlandd) Panama						
95.	SMS stands for						
	a) Simple Message Service b) Short Message Service						
	c) Significant Message Service d) Sweet Message Service						
96.	Which is the most expensive city to live as an expatriate?						
	a) Moscow b) London c) Tokyo d) New York						
97.	Tribhuvan University celebrated its golden jubilee in						
	a) 2009 b) 2010 c) 2012 d) 2013						
98.	Which British Emperor could not speak English?						
	a) James First b) Charles First c) George First d) Edward Seventh						
99.	When is the International Worker Day?						
	a) 15 th April b) 12 th December c) 1 st May d) 1 st August						
100	. Pagal Basti is the famous book written by						
	a) Amar Neupane b) Saru Neupane						
	c) Narayan Wagle d) Sudheer Sharma						

CMAT Model Exam V Answers

1.d	2.c	3.d	4.a	5.d	6.c	7.d	8.b	9.a	10.b
11.b	12.c	13.a	14.c	15.b	16.b	17.a	18.d	19.c	20.a
21.b	22.d	23.c	24.a	25.d	26.d	27.c	28.a	29.a	30.c
31.c	32.a	33.c	34.a	35.c	36.a	37.b	38.b	39.c	40.a
41.d	42.c	43.c	44.b	45.a	46.b	47.a	48.a	49.c	50.d
51.d	52.d	53.c	54.d	55.c	56.d	57.a	58.b	59.d	60.d
61.a	62.d	63.d	64.d	65.c	66.d	67.b	68.a	69.d	70.c
71.a	72.c	73.b	74.d	75.c	76.c	77.b	78.d	79.c	80.a
81.a	82.c	83.c	84.b	85.b	86.a	87.d	88.c	89.a	90.b
91.c	92.a	93.b	94.b	95.b	96.c	97.a	98.c	99.c	100.b