Common Entrance Examination-2024 (Admission for M.C.A.)

Time : 2:00 Hrs.

Booklet No.

Maximum Marks : 400

READ THE FOLLOWING INSTRUCTIONS CAREFO.

- **1.** Do not open the seal of the question booklet until you are asked to do so by invigilator.
- 2. OMR answer-sheet will be supplied by the Centre Superintendent for answering the stior s.
- **3.** Use blue/black ink ball pen only to darken the appropriat circle/oval in the OMR a swersheet. No sophisticated pens are allowed.
- **5.** This question booklet contains **16** pages incluing blank ges for rou, ork. After you are permitted to open the seal, please check and eport discrepancies, if any, to the invigilator on duty.
- 6. There are a total of 100 questions car 7 400 marks these questions are Multiple Choice Questions (MCQs). Each question have one correct swe?.
- Questions 1 to 25 pertain to Verbal A pility, questions 2 / to 50 pertain to Quantitative Ability. questions 51 to 75 belong to Da a Internation and Reasoning, questions 76 to 100 pertain to Computer Awareness and each question carries 4 marks.
- 8. Rough work can be done of the provided at the end of the question booklet for roug, work.
- 9. Do not fold the OMR answer-sn. et and do not put any mark on it to avoid rejection by the scanner
- **10.** Write roll num. and the OMF, answer-sheet and darken the appropriate circle/oval properly.
- **11.** Before opening the or lestion booklet, fill-up the required information with blue/black ball pen or potly both in the question booklet and the OMR answer-sheet.
- 2. Mobile phones/elect onic devices etc. are not allowed inside the examination hall.
- **3.** The *c* ooklet may be retained by the candidate after the entrance test is over.
- 14. . σur (+4) mark shall be awarded for each correct answer and one (-1) mark shall be deducted for ε ich wrong answer. Un-answered/ un-marked question will be given no mark (0).
- **15.** Before the start of the examination, write your name and registration number in the space provided below using a blue/black lnk ball point pen.

Name					
Registration Number					

MCA

Section A (Verbal Ability) [Question No. 1 to 25]



They run down the centre of the road. d.

In Questions No. 5 to 7, there is a certain relation between two given words on one side of:: and one word is given on another side of :: while another word is to be found from the given alternatives.

5.	Scribb	ole : Write :: Stammer: ?		
	a.	Play	b.	Speak
	c.	Read	d.	Walk
6.	Trump	pet: Band :: Knife : ?		
	a.	Cutlery	b.	Metal
	c.	Pork	d.	Cut
7.	Comm	nunicable disease : Malaria :: Non-Con	nmunic	able disea

- se : ?
 - Tuberculosis b. Measles a. Pneumonia d. Diabetes c.

[Questions No. 8 and 9] Choose the correct meaning of Proverb/Idiom

8. Under the weather a. To feel ill b. Unpleasant Weather Feeling good d. Strong Storm C. 9. Still water runs deep An energetic person who enjoys being with other people. a. b. Calm and peaceful river. People who are quiet or shy are often interesting. c. d. People who are contended with life are the happiest. 10. Rearrange words to make meaningful sentence: stood/last/term/second/who/in/the/class/in/? In last term who stood second in class? a. b. Who stood second in class in the last term? In the class who stood second in last term? c. d. In the class in last term who stood second? 11. Find the correctly spelt word Conscientious Consentious a. b. d. Consciencious Consceintious c. [Questions No. 12 and 13] Fill in the blanks with appropriate word 12. The boys did not turn for cricket practice. b. a. in out d. of c. up The conversation was carried 13. .. whispers a. with b. on d in c. by The word given is used in four different ways. Choose the option corresponding to the 14. sentence in which the usage of the word is incorrect or inappropriate.

HINDER

- a. The performance review threatened to hinder his career.
- b. A snowfall hindered the daily commuters.
- c. Earthquakes are continuing to hinder the progress of the city.
- d. I want that the organization would stop being hindery with the health service.

15. Choose the most suitable meaning for the given word

TRAMPLE

- a. To step on someone heavily so as to crush them
- b. To engage without restraint in an activity
- c. To establish the correctness of something
- d. To fasten tightly
- 16. Four sequentially ordered statements are given. Each statement can be classified as one of the following:

Facts (F), which deal with the pieces of information that one has heard, seen or read, and which are open to discovery of verification.

Inferences (I), which are conclusions drawn about unknown, on the basis of the known.

Judgements (J), which are opinions that imply approval or disapproval of persons, objects, situations and occurrences in the past, the present or the future.

Find the correct classification of given statements.

- (A) We should not get addicted to the flawed belief that corruption in India is caused by the dishonesty of Indians.
- (B) The fact is that India is surrounded by red tapism. It takes 89 days to start a small business in India, while in Australia it takes only two days.
- (C) This leads to corruption and falsify people's character.
- (D) The red tape procedure thus involves contact with officials, which leads to bribery and corruption.

a.	JFIF	b.	JIJF
c.	JFJJ	d.	JFJI

17. Fill in the blanks with correct word

Catching the train will give us the to do some shopping

- a. instance b. chance
- c. possibility d. event

Choose a word that is most opposite in meaning to the given word.
QUIESCENT

a. Indifferentb. Inactivec. Actived. Sympathy

- 19. Choose the correct spellings
 - a. Milenium b. Millenium
 - c. Millennium d. Mulennium

- (A) to ensure good learning is
- (B) at stake then best way
- (C) when the pride of a school is
- (D) to create awareness among students
- a. DABC b. BCAD
- c. CBAD d. DBAC

[Questions no. 21 and 22] Choose the correct part for the underlined phrase from the given options

- 21. I am tired as <u>I am walking</u> since 5 AM
 - a. I was walking b. I have been walking
 - c. I had been walking d. I has been walking
- 22. <u>Had I realised</u> how close I was to the edge, I would not have carried him there,
 - a. Had I been realised b. When I realised
 - c. Have I been realised d. No correction required
- 23. Identify the type of sentence 'The sun rises in the east'.
 - a. Interrogative sentence b. Exclamatory sentence
 - c. Imperative sentence d. Declarative sentence

24. Fill in the blank with appropriate word

c.

an

They were grateful for cake we gave them.

- a. ab. thec. and. none of these25. Dr. Pathak became president of the company.a. theb. a
 - d. none of these

Section B (Quantitative Ability) [Questions No. 26 to 50]

26.	If $A : B = 3 : 4$, $B : C = 8 : 9$, $C : D = 15 : 16$, find $A : B : C : D$.								
	a.	9:15:21:24			b.	30:40:45:48		\checkmark	
	c.	15:20:21:27			d.	3:4:9:16			
27.	A was some water	termelon weig time it turns o melon now?	hs 500 out tha	00gm, 99% of its at it is only 98%	weig wate	ght is water. It is k r by weight. What	ept i t is t	in open and after he weight of the	
	a.	4500 gm	b.	4000 gm	c.	2500 gm	d.	4950 gm	
28.	The c price	ost price of an is of cost price	article ?	e is 40% of the sel	ling p	orice. What is the p	erce	nt that the selling	
	a.	40%	b.	60%	C.	200%	d.	250%	
29.	Sum o numb	of three prime rers is	numbe	ers is 100. If one o	of the	m exceeds another	by 3	6, then one of the	
	a.	7	b.	29	c.	67	d.	41	
30.	30. A person has to make a journey of 72 km. He rides a cycle at 12 km/hr. After going certain distance, the cycle got punctured and he walks the remaining distance at 9/2 km/hr. Where did the cycle got punctured if total time taken for the journey was 17/2 hours?								
	a.	18 km	b.	54 km	c.	36 km	c.	50 km	
31.	Find 63m l	the greatest po ong have to be	ssible divid	length of the pla led into planks of	inks, the s	if three pieces of t ame length.	imbo	er 42m, 49m and	
	a.	6 m	b.	63 m	c.	49 m	d.	7 m	
32.	A sun intere	n of money amo st. The sum is	ounts	to ₹ 6690 after 3 y	ears a	nd to ₹ 10035 after	6 ye	ars on compound	
	a.	` 4460	b.	` 3650	c.	` 4535	d.	` 2800	
33.	33. If two pipes function simultaneously, the reservoir will be filled in 6 hours. One pipe fills the reservoir 5 hours faster than the other. How many hours does the faster pipe take to fill the reservoir?								
	a.	13 hours	b.	15 hours	c.	10 hours	d.	8 hours	
34.	A stue marks marks	dent covers 40 ^o s for Physics if s is 100?	% mai overa	rks in Physics and ll percentage of th	l 60% he stu	marks in Maths. Valent is 45% and in	What Mat	t is the maximum ths the maximum	
	a.	100	b.	200	c.	300	d.	400	

35.	If the 17th term of an arithmetic progression is 7 more than its 10th term, then the common difference of the arithmetic progression is								
	a.	1	b.	2	c.	3	d.	-1	
36.	If sun	n of first three	terms	of a GP is 26 and	l their	r product is 216. Fi	ind th	ne common ratio.	
	a.	2	b.	3	c.	1	d.	5	
37.	What is 8 a	is the Harmon nd 5 respective	ic Me ely?	an of two number	s who	ose geometric mea	n and	l arithmetic mean	
	a.	12.8	b.	12	c.	13.5	d.	14.6	
38.	Find	the average of	all pr	ime numbers betw	veen 2	30 and 50.			
	a.	35.5	b.	37	c.	38.9	d.	39.8	
39.	If the	diagonal of a r	ectang	gle is 13 cm and pe	erime	ter is 34 cm, then it	ts are	a will be	
	a.	440 cm^2	b.	60 cm^2	C.	-250 cm^2	d.	20 cm ²	
40.	If $\sqrt{5}$	$+\sqrt[3]{x} = 3$, then	n find	the value of x.					
	a.	8	b.	64	c.	4	d.	16	
41.	Three target	e persons A, B t are $2/3$, $5/7$ ar	and nd 3/8	C aim at a target. . What is the prob	The abilit	ir respective probative that none of the	abilit m hit	ies of hitting the s the target?	
	a.	7/92	b.	5/28	c.	5/84	d.	10/198	
42.	A ma at lea	n has 12 friend st 10 of them?	s who	om he wants to inv	ite fo	r lunch. In how ma	any w	vays can he invite	
	a.	66	b.	140	c.	79	d.	153	
43.	In a co How	olony, there are many greeting	e 55 m cards	embers. Every me were posted by th	mber nem?	posts a greeting ca	ard to	all the members.	
	a.	2970	b.	3025	c.	1980	d.	990	
44.	If the	value of Θ + Θ	$\Phi = \Pi$	$1/2 \text{ and } \sin \Theta = \frac{1}{2}$	2, wh	at will be the valu	e of s	$\sin \Phi$?	
	a.	1	b.	$\sqrt{2}$	c.	$\frac{\sqrt{3}}{2}$	d.	$\frac{2}{\sqrt{3}}$	
45.	What and (-	is the slope of -2,0)	f the l	ine perpendicular	to th	e line passing thro	ough	the points $(-5,1)$	
	a.	-3	b.	1/3	b.	-1/3	d.	3	
46.	If $z =$	$x + yi, x, y \in$	R and	13x + (3x - y)i = 4	-6i,	then z is equal to			
	a.	4/3 + 10i	b.	4/3 – 10i	c.	-4/3 + 10i	d.	-4/3 - 10i	
47.	It was	s Sunday on Ja	nuary	1, 2006. What wa	as the	e day of the week o	on Jai	nuary 1, 2010?	
	a.	Saturday	b.	Sunday	c.	Friday	d.	Monday	

48. AB and CD are two parallel chords of a circle of radius 13 cm such that AB = 10 cm and CD = 24 cm. Find the distance between them. Note that both the chords are on the same side. 7 cm 8 cm 9 cm a. b C. d 11 cm What is the value of b for which the given equation $2x^2 + 4x + b = 0$ has two equal roots? 49. b. 4 2 с 6 a. 1 If $\log_{27} x = 1/6$, then x is equal to 50. $\sqrt{3}$ b. 27 c. 9 d. 6 a. Section-C (Data Interpretation and Reasoning) [Question No. 51 to 75] In a certain code, MUNICIPALITY is coded as INMUAPCIYTLI, how is JUDICIAL 51. written in that code? b. UJDILACI IDUJLACI a. d. **IDJULACI IDJULAIC** c. If SAND is called AIR, AIR is called PLATEAU, PLATEAU is called WELL, WELL is 52. called ISLAND and ISLAND is called SKY, then from where will a woman draw water? AIR WELL b SKY d. ISLAND a. C. A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is 53. girl's Brother b. Son a. d. Nephew c. Son-in-law If P + Q means P is the brother of Q; P X Q means P is the mother of Q; and P / Q means 54. P is the sister of Q, which of the following would mean R is the uncle of S? R X P + SR X S + Pb a. d. R + P X SR/P+SC. For the Assertion (A) and Reason (R), choose the correct alternative. 55. Assertion (A): Carbohydrates provide energy to the body. Reason (R): Obesity is caused by excessive intake of carbohydrates. a. Both A and R are true and R is the correct explanation of A. Both A and R are true but R is not the correct explanation of A. b. A is true but R is false. C. d. A is false but R is true.

56. For the Assertion (A) and Reason (R), choose the correct alternative.

Assertion (A): Eskimos reside in igloos.

Reason (R): No other material except snow is available.

- a. Both A and R are true and R is the correct explanation of A.
- b. Both A and R are true but R is not the correct explanation of A.
- c. A is true but R is false
- d. A is false but R is true.

57. The question given below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Statement : Should military service be made compulsory in our country?

Arguments : I. No. It is against the policy of non-violence.

II. Yes. Every citizen should protect his country

- a. Only argument I is strong. b. Only argument II is strong
- c. Either I or II is strong d. Neither I nor II is strong
- 58. The question given below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Statement : Should loyalty be the only criterion for promotion in any organisation?

Arguments : I. Yes. Without loyal men, no organisation can function.

II. No. It leads to hypocrisy and partiality,

- a. Only argument I is strong. b. Only argument II is strong
- c. Either I or II is strong d. Neither I nor II is strong

59. A statement is given followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. Consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement : A's advice to B – "Go to Jammu via Amritsar - the shortest route."

Assumptions : I. B wishes to go to Jammu.

II. A gives advice to everybody.

- a. Only assumption I is implicit b. Only assumption II is implicit
- c. Either I or II is implicit d. Neither I nor II is implicit

- 60. A statement is given followed by two conclusions numbered I and II. Consider the statement and the following conclusions and decide which of the conclusions is implicit.
 - Statement : The best way to escape from a problem is to solve it.

Conclusions : I. Your life will be dull if you don't face a problem.

- II. To escape from problems, you should always have some solutions with you.
- a. Only conclusion I is implicit b. Only conclusion II is implicit
- c. Either I or II is implicit d. Neither I nor II is implicit
- 61. Which of the following best represents the relationship amongst Boys, Students and Athletes:



[Questions no. 62 and 63] In the figure given below, the circle represents young persons, the triangle represents uneducated persons and the rectangle represents employed persons.



The region which represents educated, employed young persons, is denoted by 63.

- 2 b 3 a. 4
- 1 d C.

Shailesh and Sumer start from a fixed point. Shailesh moves 3 km northward, turns right 64. and then covers 4 km. Sumer moves 5 km westwards, turns right and walks 3 km. The distance between Shailesh and Sumer, now is

- 10 km 9 km b a.
- 8 km d. 6 km c.
- 65. Varun travelled 7 Km eastward, then turned left and travelled 5 Km. Next, he turned left and travelled 7 Km. How far was he from the starting point?

a.	7 km	b.	15 km
C.	5 km	d.	12 km

- Two statements I and II are given. These statements may be either independent causes or 66. may be effects of independent causes or a common cause. One of the statements may be effect of the other statement. Read both the statements and decide which of the following choices correctly depicts the relationship between these two statements.
 - The staff of Airport Authorities called off the strike they were observing in protest Ι against privatization.
 - Π The staff of Airport Authorities went on strike anticipating a threat to their jobs.
 - Statement I is cause; statement II is effect. a.
 - Statement II is cause; statement I is effect. b.
 - Both the statements I and II are independent causes. c.
 - d. Both the statements I and II are effects of independent causes.

67 Three positions of the dice are given below. Identify the number on the face opposite to 6.



If the statement "All men are poor" is false, which of the following statements can be 68. claimed certainly to be true? Some men are poor. b. Some men are not poor a. d C. No man is poor No poor person is a man Five friends A, B, C, D and E sit in a row facing north not necessarily in the same order. B 69. sits at the left end of the row. Only two people are sitting between A and C. A sits immediate next to B and D sits second to the right of B. Who sits between D and C? Α None Е b. В C. a. d. By interchanging the two numbers 20 and 36, which of the following equations will be 70. correct? I $65 + 42 - 36 \times 20 \div 9 = 27$ Π $20 \div 3 \times 36 + 81 - 41 = 280$ Only I Only II Both I and II Neither I nor II a. b. C d The following equation becomes mathematically correct when you interchange either 71. the sign or the number as given. Find the correct alternative. Given equation is $(16-4) \times 6 \div 2 + 8 = 30$ a. 4 and 2 b. ÷ and – c. 16 and 6 d. -and +

[Questions No. 72-75] The sub-divided bar diagram given below depicts the result of B.Sc. students of a college for three years. Study the diagram and select the correct answer.



72.	How much percent passed in 1st division in 2002?										
	a.	20%	b.	34%	c.	$14\frac{2}{7}\%$		d.	$11\frac{13}{17}\%$		
73.	What	was the pass j	percer	ntage in 2002?							
	a.	65%	b.	70%	c.	82.3%	d.	77.5	%		
74.	In wh	nich year the co	ollege	had the best resu	ılt for	B.Sc.?					
	a.	2002	b.	2003	c.	2004	d.	Both	2002 and 2003		
75.	What	is the number	of thi	ird divisioners in	2004	?					
	a.	165	b.	70	C.	75	d.	65			
	Section D - Computer Awareness										
				Questions No	. 76	to 100]					
76.	With	reference to S	pace s	science, what is C	Orion?						
	a.	Dwarf plane	t		b.	Constell	ation				
	c.	Satellite			d.	Star					
77.	What	is the new nat	me of	Google's AI chat	bot B	ard?					
	a.	LIBRA	b.	GEMINI	c.	LEO		d.	ARIES		
78.	When	n is National S	cience	e Day celebrated	?	, ,					
	a.	5th February	r		b.	28th Feb	oruary	/			
	c.	5th Septemb	er		d.	14th Sep	temb	er			
79.		is the	e weal	k zone of earth's	crust.						
	a.	Cosmic	b.	Mimic	c.	Seismic		d.	Anaemic		
80.	The sanoth	speaker of the ter member spe	Lok S eak. T	Sabha can ask a i his phenomenon	memb is kno	er of the hou	se to	stop	speaking and let		
	a.	Yielding the	floor		b.	Calling a	attent	ion m	notion		
	c.	Crossing the	floor		d.	Point of	ordei	r			
81.	The s	mallest unit of	f data	in a computer is							
	a.	byte	b.	bit	c.	nibble		d.	word		
82.	What	is the extension	on of t	the file created an	nd sav	ved in notepac	1?				
	a.	.doc	b.	.txt	c.	.exe		d.	.bmp		



93.	To copy a process from memory to disk to allow space for other processes is called								
	a.	Deadlock	b.	Swapping	C.	Paging	d.	Page Fault	
94.	Whic	h of the follow	ving is	not an Operatin	g Syst	em?			
	a.	DOS	b.	Windows	c.	UNIX	d.	MS Office	
95.	Whic	h type of softw	ware d	oes the job of me	erging	the records from	two fi	iles into one?	
	a.	Compiler			b.	Utility Softw	vare		
	c.	Operating S	ystem		d.	Networking	Syster	n	
96.	Whic	h of the follow	ving ca	annot be a variab	ole nan	ne in C?			
	a.	friend			b.	class			
	c.	volatile			d.	export			
97.	What	is the final va	lue of	x in the followin	ng cod	e?			
	#inclu	ude <stdio.h></stdio.h>							
	void 1	main()							
	{	int x;							
		x = 2 * 17 / 4	4 + 9;						
		printf("%d",	x);						
	}								
	a.	17.5			b.	17			
	c.	18.5			d.	18			
98.	What	is the range f	or inte	ger values in a 1	6-bit c	ompiler?			
	a.	-32767 to 32	2768		b.	-32768 to 32	2767		
	c.	-30000 to 3	0000		d.	-32678 to 32	2678		
99.	Whic	h of the follow	ving is	not a library fun	nction	in C?			
	a.	printf()			b.	scanf()			
	C.	fprintf()			d.	print()			
100.	What	happens when	n you 1	ry to access an a	rray v	ariable outside its	s size?		
	a.	0 value is re	turned		b.	Garbage val	ue is re	eturned	
	c.	1 value is re	turned		d.	Compiler er	or is t	hrown	

Rough Work