DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO



As an ISO 9001 : 2008 - Certified

ENT : 2020-2021 TIME : 02.00 Hrs.

MATH & GAT

Sr. No. **MAXIMUM MARKS : 100**

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

- Do not carry any book, paper or any other material with you inside the Examination Hall. 1.
- Use only Black / Blue ball pen. 2.
- 3. Keep the Hall Ticket with you ready for scrutiny.
- Result of this Examination will be displayed on the Notice Board. The Result Sheet will 4.

include the successful/ qualified candidates ONLY.

5. All successful candidates indicated on the list shall present themselves for the invetview on the same day.

This Test Booklet contains 100 items (Questions). Question No. 1 to 100 (MCQ) carry 1 mark 6. each You have to select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, Choose Only One response for each item.

7. All the answers must be marked on the Answer Sheet only. Do not write anything on this Test Booklet.

8. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR QUESTION ETC. IF SO, GET IT REPLACED BY THE SUPERVISOR.

9. Ask for a separate paper for rough work.

10. Read the questions carefully, Remember, answers are to be indicated in the Answer Sheet

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DEFENCE CAREER ACADEMY DCA Entrance Examination - 2020

P.T.O.

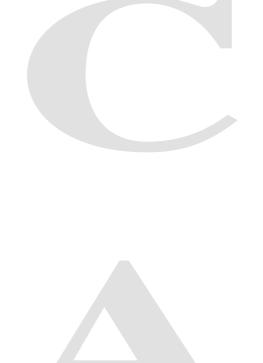
Only. Return the Test Booklet, Rough work papers and the Answer Sheet immediately when asked to do so. You are NOT permitted to take away with you any paper concerning the Examination.

ANSWER SHEET

11. The Answer Sheet contains 150 counts, each subdivided in four { (1) (2) (3) (4)} subdivisions for indicating the correct choice of answers. After having selected the correct choice from the test Booklet, you should indicate that choice by completely blackening the respective circle, DO NOT merely cross the circle. You should indicate correct answer by blackening ONLY ONE circle in each answer. Any answer having more than ONE blackened circle will be treated as a WRONG answer.

12. Before starting the answering ensure that you have filled the complete information at the top of this Answer Sheet. Incomplete Answer Sheet will be regarded as invalid.

THANK YOU AND BEST OF LUCK



		PART - I I	MATHS	
1.	If $x - 12 = 12$, then whi	ch number should be in t	he answer?	
	1) 28	2) 144	3) 24	4) 26
2.	15 minutes before bed th	ime. 9.45 ?		
	1) a.m.	2) p.m	3) both (1) & (2)	4) none of these
3.	8 kg = gm.			
	1) 80	2) 800	3) 8000	4) 80000
4.	10 L 25 ml =	nl.		
	1) 1025	2) 100025	3) 125	4) 10,025
5.	$7 \times 3 + 9 - 12 = ?$			
	1) 14	2) 18	3) 17	4) 16
6.	45 + ? = 65			
	1) 19	2) 36	3) 18	4) 20
7.	Which of the following	number does not have a r	emainder, when divide	ed by 8 ?
	1) 73	2) 64	3) 42	4) 81
8.	2643 + 1956 = ?			
	1) 1599	2) 3599	3) 4599	4) 4598
9.	25 m = cm.			
	1) 35	2) 250	3) 2500	4) 35000
10.		t in the $16? + 224 = 386$		
	1) 2	2) 4	3) 3	4) 6
11.	What is the correct pair below?	of mixed number conve	rted to improper fracti	on out of alternatives given
	1) 9 $\frac{3}{4} = \frac{42}{5}$	2) 10 $\frac{7}{9} = \frac{97}{9}$	3) $3\frac{1}{9} = \frac{25}{9}$	4) 20 $\frac{4}{8} = \frac{205}{8}$
12.	What is the product of 2	5 and 5?		
	1) 525	2) 20	3) 125	4) 30
13.	Add : $\frac{2}{4} + \frac{1}{4} =$			
	1) $\frac{4}{4}$	2) $\frac{1}{4}$	3) $\frac{3}{4}$	4) $\frac{1}{3}$
*	DEFENCE CAREE	RACADEMY 1	Entrance Exar	mination - 2020 P.T.O.

14.	If $125 \div 5 = ?$			
	1) 25	2) 18	3) 10	4) 15
55.	$5 \times 2 + 4 = ?$			
	1) 12	2) 14	3) 15	4) 24
16.	One fourth of number 4	0		
	1) 20	2) 28	3) 10	4) 160
17.	If the numbers 50055, second	50555, 50550, 50505 ar number.	e arranged in the asce	nding order which will the
	1) 50055	2) 50550	3) 50505	4) 50555
18.	Which of the following	numbers is divisible by a	Il the three numbers 2,	4 and 6 ?
	1) 72	2) 74	3) 89	4) 67
19.	5 kg =	gm		
	1) 50	2) 500	3) 0.5	4) 5000
20.	$1 \text{ kg} = 5 \times \boxed{g}$			
	1) 100	2) 1000	3) 200	4) 2000
21.	The improper fraction of	f $3\frac{6}{7}$ is		
	1) $\frac{27}{7}$	2) $\frac{9}{7}$	3) $\frac{25}{7}$	4) $\frac{27}{6}$
22.	Perimeter of square who	ose sides are 10 cm.		
	1) 20 cm	2) 30 cm	3) 40 cm	4) 100 cm
23.	$10 \div ? = 2$ Which of	the following numbers v	vould come in place of	question mark?
	1) 4	2) 5	3) 3	4) 2
24.	Diameter = 50 cm, $r =$?		
	1) 50 cm	2) 100 cm	3) 25 m	4) 25 cm
25.	The largest four digit nu	mber using the digit 7, 4	, 5, 2	
	1) 2457	2) 5472	3) 2754	4) 7542
26.	If $\frac{12}{7} - \frac{5}{7} = ?$			
	1) 17 7	2) $\frac{7}{17}$	3) $\frac{12}{7}$	4) 1
*	DEFENCE CAREE	RACADEMY 2	Entrance Exar	mination - 2020 P.T.O.

27.	Determine pattern and find out next 3 numbers.				
	i) 1, 4, 9, 16,,,,				
	1) 25, 36, 49	2) 36, 25, 49	3) 49, 25, 36	4) 49, 25, 81	
28.	Add: 3248 + 342				
	1) 9034	2) 3905	3) 3590	4) 3509	
29.	69999 + 1 = ?				
	1) 79999	2) 79910	3) 70000	4) 79990	
30.	What is the expanded fo	rm at 909990 ?			
	1) 900000 + 90 + 9000	+ 9	2) 9000 + 90 + 9000	00 + 900	
	3) 900 + 9 + 90000		4) 90 + 9000 + 9000	000 + 900	
31	Convert the improper fra	$\frac{14}{2}$ into a mixed n	umbor		
31.	Convert the improper ma	3 millio a mixed m	unider.		
	1) $1\frac{3}{5}$	2) 4 $\frac{2}{3}$	3) $3\frac{1}{3}$	4) 2 $\frac{5}{3}$	
	1) 1 5	2) - 3	3) 3 3	+) 2 3	
32.	<u>?</u> × 24 = 24000				
	1) 100	2) 1000	3) 10	4) 10000	
33.	How many sides does a square have ?				
	1) 4	2) 3	3) 2	4) 5	
34.	Complete $45 \times 45 =$	2025			
	55 × 55 =	3025			
	65 × 65 =				
	1) 5625	2) 4225	3) 1225	4) 2025	
35.	The cost of 4 TV sets is	Rs. 9656. Find the cost	of each set.		
	1) 4241	2) 2414	3) 2144	4) 2441	
36.	120 < 123 < 210 < 313	Which will be the third r	number if the sequence	e given above is reversed?	
	1) 210	2) 120	3) 123	4) 213	
37.	$\frac{2}{?} = \frac{6}{15}$				
	1) 3.	2) 2	3) 5	4) 1	
38.	What are the factors of	10 (prime factor)			
	1) 5×1	2) 2×5	3) 10×1	4) none of these	
*	DEFENCE CAREE	RACADEMY 3	Entrance Exan	nination - 2020 P.T.O.	

39.	$\frac{1}{3}$ is equivalent to			
	1) $\frac{1}{6}$	2) $\frac{2}{6}$	3) $\frac{3}{6}$	4) $\frac{3}{4}$
40.	Divide : $7\overline{)98}$			
	1) 12	2) 13	3) 15	4) 14
41.	Write the fractions : Two	o fifths		
	1) $\frac{5}{2}$	2) $\frac{2}{5}$	3) $\frac{1}{5}$	4) $\frac{10}{5}$
42.	The number 1 more than	999 =		
	1) 10	2) 100	3) 1000	4) 10,000
43.	Perimeter of triangle wh	ose sides are 15 cm, 12	cm, 8 cm	
	1) 34 cm	2) 35 cm	3) 36 cm	4) 37 cm
44.	81 m = cm	?		
	1) 81000	2) 8100	3) 81	4) 801
45.	Calculate the number of	days between. August 20) and september 1	
	1) 10	2) 11	3) 9	4) 13
46.	equivalent fraction of $\frac{7}{9}$	is.		
	1) $\frac{9}{7}$	2) $\frac{14}{18}$	3) $\frac{100}{81}$	4) none of these
47.	Find the perimeter of the	e squares whose side is 2	20 cm.	
	1) 80 cm	2) 100 cm	3) 120 cm	4) 40 cm
48.	Which of the following i	is the correct method for	the subtraction of $\frac{13}{3}$	$-\frac{5}{3}$?
	1) $\frac{5\times4}{9\times9}$	2) $\frac{5+4}{9+9}$	3) $\frac{13-5}{3}$	4) $\frac{5-4}{9}$
49.	1000 = hundre	eds		
	1) 10	2) 1	3) 5	4) 100
50.	The number of zeroes th	nat come after 1 for 10 n	nillions is:	
*	1) 8 DEFENCE CAREE	2) 7 RACADEMY 4	3) 6 Entrance Exan	4) 9 nination - 2020 P.T.O.

	PART - II GAT					
*	Direction : Identify the Noun from the following.					
51.	1) donkey	2) drag	3) frank	4) decent		
52.	1) angry	2) ankle	3) anxious	4) answerable		
*	Direction : Identify	the word opposite in m	neaning:			
53.	Old ×	(clothes)				
	1) new	2) dirty	3) cold	4) young		
54.	ever ×					
	1) everyday	2) forever	3) never	4) no where		
*	Direction : Identify	the plurals.				
55.	Tomato :					
	1) Tomatos	2) Tomatoes	3) Tamotos	4) Tometos		
56.	knife:					
	1) knifes	2) knife	3) knives	4) knieves		
57.	box:					
	1) boxs	2) boxes	3) boxess	4) box's		
*	Direction : Identify the correct spelling					
58.	1) patriot	2) petriot	3) paetriot	4) peatriot		
59.	1) despline	2) descipline	3) descepline	4) discipline		
60.	1) differince	2) difference	3) diference	1) diffarence		
*	Direction : Identify	the synonyms for				
61.	rude =					
	1) well-treating	2) polite	3) mannerless	4) modest		
62.	cowardish =					
	1) bold	2) scaring	3) fearless	4) brave		
*	Direction : Identify the Pronouns.					
63.	1) because	2) that	3) or	4) to		
64.	1) who	2) how	3) why	4) when		
65.	1) these	2) crow	3) ace	4) axe		
66.	If BOMBAY is writte	n as MYMYMY, how TAI	MIL NADU be written	in that code?		
	1) TIATIATIA	2) MNUMNUMNU	3) IATIATIAT	4) ALDALDALD		
*	DEFENCE CARE	EER ACADEMY	5 Entrance Exa	mination - 2020 P.T.O.		

*	Direction : In each of the following questions, four words have been given, out of which three are alike in some manner and the forth one is different. Choose out the odd one.					
67.	1) Rigveda	2) Yajurveda	3) Atharvaveda	4) Ayurveda		
Dire	Direction : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and fill in the blank spaces.					
68.	3, 8, 22, 63, 185, ()				
	1) 550	2) 310	3) 295 4) 285		
69.	Five boys are standing in a row facing East. Deepak is to the left of Sameer, Tushar and Shailendra. Sameer, Tushar and Shailendra are to the left of Sushil. Shailendra is between Sameer and Tushar. If Tushar is fourth from the left, how far is Sammeer from the right?					
	1) First	2) Second	3) Third 4) Forth		
*	given words on one s is to be found from	side of : :and one wo the given alternativ	rd is given on another	tain relationship between two side of : : while another word relation with this word as the		
70.	Cobbler : Leather : : 0	Carpenter : ?				
	1) Furniture	2) Wood	3) Hammer 4) Chair		
71.	Which of the following	ng can produce food o	n their own?			
	1) Fish	2) Birds	3) Human beings	4) Plants		
72.	Dolphin is					
	1) a mammal	2) an egg laying an	imal 3) a fish	4) an egg laying fish		
73.	Kidneys are located in	n :				
	1) the chest	2) the abdomen	3) the hands	4) the left side of body		
74.	Mosquitoes spread :					
	1) Cancer	2) stomach ache	3) malaria	4) blood pressure		
75.	We can separate sand	from water by:				
	1) Filtration	2) evaporation	3) boiling	4) all of these		
76.	To do work, we need	:				
	1) force	2) energy	3) hands	4) muscles.		
77.	1 kilometre =	. metres				
	1) 1000	2) 10,000	3) 10	4) 100		
78.	E-mails are sent throu	gh				
	1) postal covers	2) telephone	3) radio	4) computer		
79.	The earth completes of	one revolution in				
	1) one hour	2) one year	3) one day	4) one month		
*	DEFENCE CARE	ER ACADEMY	6 Entrance E	Examination - 2020 P.T.O.		

80.	Conservation of soil can be done by			
	1) contour farming	2) terrace farming	3) afforestation	4) all of these
81.	Most of the metals are	e found.		
	1) in the wood of tree	S	2) on the top of mou	untains
	3) deep inside the ear	th	4) dissolved in wate	r
82.	Which among the foll	owing is an chemical inc	licator?	
	1) Hibiscus	2) Turmeric	3) lichen	4) methyl orange
83.	Which among the foll	owing is a natural indica	tor?	
	1) Phenolpthalein	2) Methyl orange	3) Turmeric	4) EDTA
84.	In a battery cell, the e	nergy is stored in the for	m of	
	1) chemical energy	2) heat energy	3) light energy	4) physical energy
85.	The plant 'tomato orig	ginates' from ———		
	1) Africa	2) Europe	3) South America	4) none of them
86.	The	plant is known as insect	ivorous plant.	
	1) Tulsi	2) pitcher	3) lemon	4) cactus
87.	seed	ls used as spices.		
	1) chilly	2) tomato	3) brinjal	4) potato
88.	From,	you can make chapati.		
	1) rice	2) wheat	3) pulses	4) seeds
89.	Lemon is ———	– in taste.		
	1) bitter	2) sweet	3) sour	4) salty
90.	We work with our —			
	1) legs	2) eyes	3) hands	4) ears
91.	——————————————————————————————————————	cluded in our taste zones		
	1) hot	2) salty	3) sweet	4) bitter
92.	We get —	- when mosquito bites us		
	1) anaemia	2) T.B	3) cancer	4) malaria
93.	was	s India's first woman prin	ne minister.	
	1) Sarojini Naidu	2) Kiran Bedi	3) Indira Gandhi	4) Kalpana Chawala
94.	is k	nown as florence Nightin	ngale of India.	
	1) P.T. Usha	2) Rani Laxmibai	3) Sarojini Naidu	4) Kiran Bedi
×	DEFENCE CARE	ER ACADEMY	7 Entrance Exa	amination - 2020 P.T.O.

95.	Is known as input device.							
	1) keyboard	2) monitor	3) c.p.u	4) flopy disk				
96.	'To erase the image' –	tool is use	ed.					
	1) curve	2) text	3) eraser	4) line				
97.	———— is one of	f the feature of a comput	ter.					
	1) portability	2) accuracy	3) utility	4) necessity				
98.	———— is used	for playing video game	S.					
	1) barcode reader	2) joystick	3) microphone	4) scanner				
99.	——————————————————————————————————————	worldwide system of con	nputer networks in wh	nich users at one computer get				
	information from othe	er.						
	1) telephone	2) computer	3) email	4) internet.				
100.	A very important festiv	val of the jain is						
	1) Diwali	2) Holi	3) Eid	4) Mahavir Jayanti				
