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



DCA ENTRANCE EXAMINATION - V

DEFENCE CAREER ACADEMY, **AURANGABAD.**

As an ISO 9001: 2008 - Certified

ENT: 2018-2019

MATH & GAT TIME: 02.00 Hrs.

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 150 items (Questions). Question No. 1 to 150 (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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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.
- 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 MATHS

1.	Fill in the blank: 24 >	< 10000					
	1) 2400	2) 24000	3) 240000	4) 24			
2.	How many faces are th	nere in a brick?					
	1) 6	2) 8	3) 12	4) 5			
3.	If x is an odd number,	what will be the nex	t odd numbers?				
	1) 2 x	2) $x + 1$	3) $x + 2$	4) $2x + 2$			
4.	$15B \times 2W = ?$						
	1) 30B	2) 30W	3) 30BW	4) 30			
5.	Write the date 3 days l	pefore August 8.					
	1) 5 August	2) 4 August	3) 6 August	4) none of these			
6.	How many odd numbe	ers are their in betwe	en 2 to 18 ?				
	1) 5	2) 10	3) 4	4) 8			
7.	7829 – 3240 =						
	1) 4598	2) 4589	3) 4985	4) 4895			
8.	Find the perimeter of	the rectangle.					
	l = 8 cm, b = 12 cm.						
	1) 100 cm	2) 40 cm	3) 50 cm	4) 60 cm			
9.	How many two-digit prime numbers are there between 10 and 50?						
	1) 12	2) 11	3) 13	4) 10			
10.	Which of the followin	· · · · · · · · · · · · · · · · · · ·		., 10			
10.	1) 130	2) 125	3) 144	4) 660			
11.	If $x - 12 = 12$, then w	•	,	., 555			
	1) 28	2) 144	3) 24	4) 26			
12.	15 minutes before bed		3, 2.	., ==			
12.	1) a.m.	2) p.m	3) both (1) & (2)	4) none of these			
13.		2) p.m	3) both (1) & (2)	i) hone of these			
	1) 80	2) 800	3) 8000	4) 80000			
14.	10 L 25 ml = ml.						
	1) 1025	2) 100025	3) 125	4) 10,025			
15	$7 \times 3 + 9 - 12 = ?$	2) 100023	3) 123	1) 10,023			
10.	1) 14	2) 18	3) 17	4) 16			
16.	45 + ? = 65	2) 10	3) 11	1) 10			
10.	1) 19	2) 36	3) 18	4) 20			
17.	,		ave a remainder, when divid	*			
	1) 73	2) 64	3) 42	4) 81			
18.	2643 + 1956 = ?			,			
	1) 1599	2) 3599	3) 4599	4) 4598			

19.	25 m = cm.			
	1) 35	2) 250	3) 2500	4) 35000
20.	What digit should be put	t in the $16? + 224 = 386$	5	
	1) 2	2) 4	3) 3	4) 6
21.	What is the correct pair below?	of mixed number conve	rted to improper fraction	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) $20 \frac{4}{8} = \frac{205}{8}$
22.	What is the product of 2:	5 and 5?		
	1) 525	2) 20	3) 125	4) 30
23.	Add: $\frac{2}{4} + \frac{1}{4} = \Box$			
	1) $\frac{4}{4}$	2) ½	3) $\frac{3}{4}$	4) 1/3
24.	If $125 \div 5 = ?$			
	1) 25	2) 18	3) 10	4) 15
25.	$5 \times 2 + 4 = ?$			
	1) 12	2) 14	3) 15	4) 24
26.	One fourth of number 40	0		
	1) 20	2) 28	3) 10	4) 160
27.	If the numbers 50055, 5 second	50555, 50550, 50505 are number.	e arranged in the ascer	nding order which will the
	1) 50055	2) 50550	3) 50505	4) 50555
28.	Which of the following is	numbers is divisible by a	Il the three numbers 2,	4 and 6?
	1) 72	2) 74	3) 89	4) 67
29.	5 kg = g	gm		
	1) 50	2) 500	3) 0.5	4) 5000
30.	$1 \text{ kg} = 5 \times \boxed{\qquad} \text{g}$			
	1) 100	2) 1000	3) 200	4) 2000
31.	The improper fraction of	$3\frac{6}{7}$ is		
	1) $\frac{27}{7}$	2) $\frac{9}{7}$	3) $\frac{25}{7}$	4) $\frac{27}{6}$
32.	Perimeter of square who	ose sides are 10 cm.		
	1) 20 cm	2) 30 cm	3) 40 cm	4) 100 cm

33.	$10 \div \boxed{?}$ = 2 Which of the following numbers would come in place of question mark?					
	1) 4	2) 5	3) 3	4) 2		
34.	Diameter = $50 \text{ cm}, r =$?				
	1) 50 cm	2) 100 cm	3) 25 m	4) 25 cm		
35.	The largest four digit nu	mber using the digit 7, 4,	, 5, 2			
	1) 2457	2) 5472	3) 2754	4) 7542		
36.	If $\frac{12}{7} - \frac{5}{7} = ?$					
	1) $\frac{17}{7}$	2) $\frac{7}{17}$	3) $\frac{12}{7}$	4) 1		
37.	Determine pattern and fi	nd 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		
38.	Add: 3248 + 342					
	1) 9034	2) 3905	3) 3590	4) 3509		
39.	69999 + 1 = ?					
	1) 79999	2) 79910	3) 70000	4) 79990		
40.	What is the expanded fo	rm at 909990 ?				
	1) 900000 + 90 + 9000	+ 9	2) 9000 + 90 + 9000			
	3) 900 + 9 + 90000		4) 90 + 9000 + 9000	000 + 900		
41.	Convert the improper fra	action $\frac{14}{3}$ into a mixed n	umber.			
	1) $1\frac{3}{5}$	2) $4\frac{2}{3}$	3) $3\frac{1}{3}$	4) $2\frac{5}{3}$		
	5	3	3) 3	3		
42.	? × 24 = 24000					
	1) 100	2) 1000	3) 10	4) 10000		
43.	How many sides does a s	square have?				
	1) 4	2) 3	3) 2	4) 5		
44.	Complete $45 \times 45 =$					
	55 × 55 =					
	65 × 65 =					
	1) 5625	2) 4225	3) 1225	4) 2025		
45.	The cost of 4 TV sets is			A) 2441		
+ =	1) 4241 DEFENCE CAREE	2) 2414 PACADEMY 3	3) 2144 Entrance Exam	4) 2441 P.T.O.		
\sim	DELENCE CAREE	VACADEIVIT		1.1.0.		

46.	120 < 123 < 210 < 313 Which will be the third number if the sequence given above is reversed?				
	1) 210	2) 120	3) 123	4) 213	
47.	$\frac{2}{?} = \frac{6}{15}$				
	1) 3.	2) 2	3) 5	4) 1	
48.	What are the factors of	10 (prime factor)			
	1) 5×1	2) 2×5	3) 10×1	4) none of these	
49.	$\frac{1}{3}$ is equivalent to				
	1) $\frac{1}{6}$	2) $\frac{2}{6}$	3) $\frac{3}{6}$	4) $\frac{3}{4}$	
50.	Divide: $7)98$				
	1) 12	2) 13	3) 15	4) 14	
51.	Write the fractions: Two	o fifths			
	1) $\frac{5}{2}$	2) $\frac{2}{5}$	3) $\frac{1}{5}$	4) $\frac{10}{5}$	
	$\frac{1}{2}$	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	
52.	The number 1 more than	999 =			
	1) 10	2) 100	3) 1000	4) 10,000	
53.	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	
54.	81 m = cm	?			
	1) 81000	2) 8100	3) 81	4) 801	
55.	Calculate the number of	days between. August 20	and september 1		
	1) 10	2) 11	3) 9	4) 13	
56.	equivalent fraction of $\frac{7}{9}$	is.			
	1) $\frac{9}{7}$	2) $\frac{14}{18}$	3) $\frac{100}{81}$	4) none of these	
57.	Find the perimeter of the squares whose side is 20 cm.				
	1) 80 cm	2) 100 cm	3) 120 cm	4) 40 cm	
58.	Which of the following	is the correct method for	the subtraction of $\frac{13}{3}$	$-\frac{5}{3}$?	
	5×4	5+4	3) $\frac{13-5}{3}$	5-4	
	$1) \frac{5 \times 4}{9 \times 9}$	2) $\frac{5+4}{9+9}$	3) -3	4) $\frac{5-4}{9}$	
*	DEFENCE CAREE	PACADEMY 4	Entrance Exan	nination - 2018 PTC	

59.	1000 = hu	ındreds					
	1) 10	2) 1			3)	5	4) 100
60.	The number of zero	es that come	after 1	for 10 m	illio	ons is:	
	1) 8	2) 7			3)	6	4) 9
61.	Addend + addend =	:					
	1) product	2) diffe	erence		3)	sum	4) quotient
62.	Number which is di	visible by 11	is				
	1) 74, 396	2) 45,	703		3)	60,390	4) 98, 498
63.	Round off to neares	t thousands.	The give	en numbe	r is	24, 500.	
	1) 24, 400	2) 24,6	500		3)	25,000	4) 24,000
64.	The numbers which	are multiples	of 2 ar	e called:			
	1) even	2) odd			3)	prime	4) composite
65.	1000 - 99 =						
	1) 901	2) 999			3)	1001	4) 989
66.	18 × 6 =						
	1) 118	2) 128			3)	108	4) 186
67.	$6 \text{ kg} = \dots \text{gr}$	ram.					
	1) 600	2) 6000			3)	60	4) 6
68.	8 Rupees =	paise.					
	1) 8	2) 80			3)	8000	4) 800
69.	No. of days in April	?					
	1) 29	2) 31			3)	28	4) 30
70.	The longest chord of	f a circle is it	ts				
	1) radius	2) diamete	er		3)	arc	4) circumterence
71.	Time duration between 7. a.m. and 11.30 a.m.						
	1) 5 hr 30 min				2)	4 hr 30 min	
	3) 3 hr 30 min.				4)	4 hr	
72.	7 O'Clock in morni	ng.					
	1) 7 a.m.					7 p.m.	
	3) Both (1) & (2)				4)	None of these	
73.	3 O' clock in aftern	oon.			•		
	1) 3 a.m.					3 p.m.	
7.4	3) Both (1) & (2)				4)	None of these	
74.	16 × 8 =	2) 120			2)	110	4) 120
	1) 127	2) 128			3)	118	4) 138

		PAR	T-II GAT			
	1) 4	2) 6	3) 8	4) 12		
*	Direction Q.76. choosing the co		ng passage carefully	and answer the question	ıs	
	many men could a conservatism of n his lunch as much	get home to lunch. But tho narried men being well known th as anybody and feels the	se more comfortable own, they still wanted nat only his wife car	ercrowding. There was a time days ended as the city grew. home-made lunch. An India guarantee the quality, qual is served in meager portion	But the an loves ntity he	
76.	According to the	author, the dabbawallahas				
	1) Are responsibl	e for the overcrowding of	Mumbai			
	2) Often create a	lot of problems for the c	ity			
	3) Have come me	ostly from rural areas				
	4) Came into exi	stence as a consequence o	f Mumbai's overcrov	vding		
77.	The past was mo	re comfortable for the peo	ple of Mumbai beca	use		
	1) many of them were rich and could afford good food					
	2) they could brin	ng home-made food our lu	ınch			
	3) many of them	could go home to lunch				
	4) they could eat	their lunch outside				
78.	Which of the foll	owing best describes the	author's attitude to th	e dabbawallahas?		
	1) objective		2) entihusiastic			
	3) appreciative		4) critical			
*	Direction Q.79. choosing the co		ng passage carefully	and answer the question	is	
	One upon a time	there was a fisherman call	ed, Malhar. He was l	iving at the seashore and use	ed to go	
fishi	ing.					
(Once day asusual h	e was catching fish, a stran	ge thing happened. H	le got a golden fish in his net	t. When	
he tı	ried to take out it, it	started speaking. The fish	said," O Malhardada	, Let me go." Maher was ve	ry kind	
He l	et it go and returne	ed home empty handed.				
79.	Malhar was ——					
	1) carpenter	2) fisherman	3) teacher	4) farmer		
80.	He was living near	ar ———				
	1) a bus stop	2) a railway statio	on 3) the sea	4) the garden		
81.	·	' that strange thing happ	ened one day.	-		

2) fish diving

2) Let me sleep

1) fish talking

The fish said,"-

1) Let me play

82.

3) fish catching

3) Let me go

4) fish swimming

4) Let me run

83.	Malhar was —								
	1) cruel	2) rich	3) poor	4) kind					
*	Direction: Identify the Noun from the following.								
84.	1) played	2) caught	3) cot	4) ploughed					
85.	1) decent	2) dance	3) super	4) good					
86.	1) donkey	2) drag	3) frank	4) decent					
87.	1) angry	2) ankle	3) anxious	4) answerable					
*	Direction: Identify the	he word opposite in mo	eaning:						
88.	Old × ———————————————————————————————————	lothes)							
	1) new	2) dirty	3) cold	4) young					
89.	ever × ———								
	1) everyday	2) forever	3) never	4) no where					
*	Direction: Identify the	he plurals.							
90.	Tomato :								
	1) Tomatos	2) Tomatoes	3) Tamotos	4) Tometos					
91.	knife: ———								
	1) knifes	2) knife	3) knives	4) knieves					
92.	box: ———								
	1) boxs	2) boxes	3) boxess	4) box's					
*	Direction: Identify t	he correct spelling							
93.	1) patriot	2) petriot	3) paetriot	4) peatriot					
94.	1) despline	2) descipline	3) descepline	4) discipline					
95.	1) differince	2) difference	3) diference	1) diffarence					
*	Direction: Identify the	ne synonyms for							
96.	rude =	_							
	1) well-treating	2) polite	3) mannerless	4) modest					
97.	cowardish = ———								
	1) bold	2) scaring	3) fearless	4) brave					
*	Direction: Identify tl	he Pronouns.							
98.	1) because	2) that	3) or	4) to					
99.	1) who	2) how	3) why	4) when					
100.	1) these	2) crow	3) ace	4) axe					
101.		as MYMYMY, how TAM							
	1) TIATIATIA	2) MNUMNUMNU	3) IATIATIAT	4) ALDALDALD					
		ollowing questions, fou the forth one is differer		ven, out of which three are					
	1) Rigveda		3) Atharvaveda	4) Ayurveda					
	,	, 0		en with one term missing					
		8 1							

	Choose the correct a	alternative that wi	ll continue the same pa	attern and fill in the blank spaces.	
103.	3, 8, 22, 63, 185, ()			
	1) 550	2) 310	3) 295	4) 285	
104.	04. Five boys are standing in a row facing East. Deepak is to the left of Sameer, Tushar and Sha Sameer, Tushar and Shailendra are to the left of Sushil. Shailendra is between Sameer and T Tushar is fourth from the left, how far is Sammeer from the right?				
	1) First	2) Second	3) Third	4) Forth	
*	Direction: In each	of the following	questions, there is a	certain relationship between two	
	given words on one	side of : :and one	word is given on anot	her side of : : while another word	
		O .		ne relation with this word as the	
105			the correct alternative	ve.	
105.	Cobbler : Leather : :	•	2) 11	1) CI :	
100	1) Furniture	2) Wood	3) Hammer	4) Chair	
106.	Which of the following	•		A) Di	
105	1) Fish	2) Birds	3) Human beir	ngs 4) Plants	
107.	Dolphin is	2)	. 10) 6.1		
100	1) a mammal		g animal 3) a fish	4) an egg laying fish	
108.	Kidneys are located i		2) 1 1 1	4) 1 1 6 11 61 1	
100	1) the chest	2) the abdomen	3) the hands	4) the left side of body	
109.	Mosquitoes spread :		2) 1 1		
110	1) Cancer	2) stomach ach	e 3) malaria	4) blood pressure	
110.	We can sepreate sand				
	1) Filtration	2) evaporation	3) boiling	4) all of these	
111.	To do work, we need				
	1) force	2) energy	3) hands	4) muscles.	
112.	1 kilometre =				
	1) 1000	2) 10,000	3) 10	4) 100	
113.	E-mails are sent throu	ıgh			
	1) postal covers	2) telephone	3) radio	4) computer	
114.	The earth completes	one revolution in			
	1) one hour	2) one year	3) one day	4) one month	
115.	Conservation of soil	can be done by			
	1) contour farming	2) terrace farm	ing 3) afforestation	on 4) all of these	
116.	Most of the metals ar	re found.			
	1) in the wood of tre	es	2) on the top of	of mountains	
	3) deep inside the ear	rth	4) dissolved in	n water	
117.	Which among the fol				
	1) Hibiscus	2) Turmeric	3) lichen	4) methyl orange	
118.	Which among the fol				

	1) Phenolpthalein	2) Methyl orange	3) Turmeric	4) EDTA
119.	In a battery will, the e	energy is stored in the fo	orm of	
	1) chemical energy	2) heat energy	3) light energy	4) physical energy
120.	The plant 'tomato original'	ginates' from ———		
	1) Africa	2) Europe	3) South America	4) none of them
121.	The ———	plant is known as insec	tivorous plant.	
	1) Tulsi	2) pitcher	3) lemon	4) cactus
122.	seed	ds used as spices.		
	1) chilly	2) tomato	3) brinjal	4) potato
123.	From ————,	you can make chapati.		
	1) rice	2) wheat	3) pulses	4) seeds
124.	Lemon is —	— in taste.		
	1) bitter	2) sweet	3) sour	4) salty
125.	We work with our —			
	1) legs	2) eyes	3) hands	4) ears
126.	———is not in	cluded in our taste zone	es.	
	1) hot	2) salty	3) sweet	4) bitter
127.	We get —	- when mosquito bites u	IS.	
	1) anaemia	2) T.B	3) cancer	4) malaria
128.	was	s India's first woman pr	ime minister.	
	1) Sarojini Naidu	2) Kiran Bedi	3) Indira Gandhi	4) Kalpana Chawala
129.	is k	known as florence Night	ingale of India.	
	1) P.T. Usha	2) Rani Laxmibai	3) Sarojini Naidu	4) Kiran Bedi
130.	Is known as input devi	ice.		
	1) keyboard	2) monitor	3) c.p.u	4) flopy disk
131.	'To erase the image' -	tool is us	ed.	
	1) curve	2) text	3) eraser	4) line
132.	is one o	f the feature of a compu	iter.	
	1) portability	2) accuracy	3) utility	4) necessity
133.	——— is used	l for playing video game	es.	
	1) barcode reader	2) joystick	3) microphone	4) scanner
134.	is the	worldwide system of co	mputer networks in wh	nich users at one computer ge-
	information from other	er.		

	1) telephone	2) computer	3) email	4) internet.
135.	A very important fest	ival of the jain is		
	1) Diwali	2) Holi	3) Eid	4) Mahavir Jayanti
136.	i	s called the festival of colo	ours	•
	1) Holi	2) Diwali	3) Christmas	4) Raksha Bandhan
137	,	you find. in the solar syste	•	i) ranona Bunanan
157.	1) 8	2) 9	3) 10	4) 11
138.	,	ated as new foreign secretar	,	., 11
100.	1) Alik Kumar Sinha	ned us new roroign secretar	2) Sunil Kumar Pal	
	3) Sajeev Babu Kurup		4) Vijay Keshav Gol	hale
139.		world's largest producer of		
10).	1) US	2) China	3) Pakistan	4) India
140.	,	oorts university to be made i		-,
	1) Pune	2) Manipur	3) Kolkata	4) Orissa
141.	,	hich earth pulls everything	•	,
	•	e 2) Specific gravity		4) Horse power
142.		in women to complete thesi		, 1
	1) Sunita Willams	2) Kalpana Chawala	•	4) Sania Mirza
143.	Boat is a means of?			
	1) Water transport	2) Rail transport	3) Land transport	4) Air transport
144.	Which of the following	ng means of transport is mo	ore expensive?	
	1) Air conditional but	s 2) Aereoplane	3) Super fast train	4) car
145.	Who established Mug	ghal empire in India?		
	1) Akbar	2) Babar	3) Shahajan	4) Aurangazeb
146.	The terms 'Beamer' i	s associated with -		
	1) Cricket	2) Hockey	3) Chess	4) Football
147.	Which was the first c	ountry to host the Asian Ga	mes?	
	1) China	2) Japan	3) India	4) Korea
148.	Which out of the follo	owing is a 'State party'		
	1) BSP	2) Rashtriya Janta Dal	3) BJP	4) NCP
149.	Which party has been	in poer for 30 years now?		
	1) BJP	2) CPI	3) CPI (M)	4) NCP
150.	Where is the headqua	arters of Botanical survey of	f India located?	
	1) Kolkata	2) Lucknow	3) Ootacmund	4) Darjeeling