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



DCA ENTRANCE EXAMINATION -VI

DEFENCE CAREER ACADEMY, **AURANGABAD.**

As an ISO 9001:2008 - Certified

ENT: 2018-2019

MATH & GAT

Sr. No.

TIME: 2.00 Hrs.

MAXIMUM MARKS: 150

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

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

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

THANK YOU AND BEST OF LUCK

of this Answer Sheet. Incomplete Answer Sheet will be regarded as invalid.



Entrance Examination - 2018

PART - I MATHS

1.	Which of the following is not correctly matched?				
	1) $I = 1$	2) $x = 10$	3) $v = 2$	4) $XII = 12$	
2.	XXIII 13				
	1) >	2) <	3) =	4) none of these	
3.	predecessor of 100,0	000,000 is			
	1) 99999999	2) 999999	3) 99999	4) 999999999	
4.	Place value of 6 in 43	3, 34, 96, 258 is			
	1) 6000	2) 60000	3) 600000	4) 6000000	
5.	73,52,39,621 has	crores			
	1) 52	2) 73	3) 39	4) 5	
6.	Which of the following	ng is not True?			
	1) $959877 \times 0 = 0$	2) $959877 \times 1 = 959877$	3) $959877 \times 10 = 0$	4) none of these	
7.		kies she sold 800 of them h of her triends receive?	& gave the rest equally	to 20 of her triends. How	
	1) 18	2) 80	3) 70	4) 1400	
8.	The value of $12 \times 7 + 2$	$24 \div 4 + 14 = \Box$			
	1) 104	2) 121	3) 224	4) 98	
9.	There are 25 pens in	a packet how many pens are	e thre in 35 such packets	S.	
	1) 25× 35	2) 35+25	3) 35 ÷ 25	4) 35-25	
10.	The value of $(8)^2 + 7$	$\times 2 \div 2 - 6 + 5$			
	1) 70	2) 92	3) 102	4) 100	
11.	Biggest 5 digit number	er + smallest 3 digit numbe	er		
	1) 1000	2) 10,0099	3) 100000	4) 99900	
12.	Least common multip	ble of 8,12 and 20 is			
	1) 12	2) 24	3) 120	4) 140	
13.	10000 =	hundred			
	1) 100	2) 1000	3) 10	4) 10000	
14.	$9709 \times 5 \times 17 \times 0 \times 11 =$				
	1) 2,88,240	2) 74,055	3) 0	4) 96,08132	
15.	A number is divisible	by 6, it is divisible by both			
	1) 4&3	2) 2&4	3) 2&3	4) 3&5	
16.	a number which is a	factor of every number is fa	ctor		
	1) 0	2) 1	3) 2	4) none of these	

17.	Number of prime nu	bers between 50 to 60 is		
	1) 1	2) 2	3) 3	4) 4
18.	Prime factorisation of	of 143 are:		
	1) $2 \times 11 \times 13$	2) 11×13	3) $2\times3\times7$	4) none of these
19.	Successor of every e	ven number is		
	1) even	2) prime	3) odd	4) none of these
20.	HCF of 24,36 and 92	• •	-,	,
	1) 24	2) 36	3) 12	4) 4
21.	•	nat comes just after 43 is	•	,
	1) 49	2) 45	3) 47	4) none of these
22.	Subtract $\frac{11}{30}$ from $\frac{12}{15}$			
	1) $\frac{84}{35}$	2) $\frac{11}{30}$	3) $\frac{13}{30}$	4) $\frac{17}{35}$
	$\frac{1}{35}$	$\frac{2}{30}$	$\frac{3}{30}$	$\frac{4)}{35}$
23.	Reciprocal of $3\frac{1}{2}$ is			
	1) $\frac{7}{2}$	2) $\frac{2}{7}$	3) $1\frac{2}{3}$	1) none of these
	2	²⁾ 7	3) 13	4) none of these
24.	Decimal form of $\frac{4}{100}$	$\frac{8}{00}$ is		
	1) 0.48	2) 4.8	3) 0.048	4) 48.00
25.	$0.05 \times 0.09 \times 5 =$			
	1) 0.025	2) 0.225	3) 0.005	4) 0.0225
26.	Difference of 32 and		2) 4 000	4) 2 000
07	1) 30.791	2) 5.909	3) 4.909	4) 3.909
27.	•	s is Rs 148.50 then the cos	-	4) D _a 0.00
28.	1) Rs. 12.80 $58 + \frac{3}{100} + \frac{7}{1000} = ?$	2) Rs. 8.90	3) Rs. 10.90	4) Rs. 9.90
		2) 59 27	2) 59 027	1) none of these
20	1) 58.0037	· · · · · · · · · · · · · · · · · · ·	3) 58.037	4) none of these
29.	$2.1+3.5-1.5 \div 0.5 = 5$ 1) 5.6	2) 2.6	3) 3.6	4) 4.6
30.	7386+3333		3) 3.0	4) 4.0
50.	1) 619	2) 609	3) 719	4) 709
31.	The measurement of			.,
•	1) 45°	2) 90°	3) 135°	4) 18°
32.	65 paise =			,
	1) 6.5	2) 0.65	3) 65	4) 650
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33.	89% is written as			
	1) $\frac{89}{100}$	2) $\frac{98}{100}$	3) 8.9	$4)8\frac{9}{100}$
34.	$\frac{6}{20}$ is equal to =	·%		
	1) 5	2) 30	3) 20	4) 6
35.	On a chess board per	rcentage of black colared s	squares is	
	1) 50%	2) 60%	3) 15%	4) 75%
36.	The average of 5,0,6,	$\frac{1}{4}$ and $8\frac{3}{4}$ is		
	1) 1	2) 2	3) 3	4) 4
37.	The ratio of 96 m and	d 72 m is		
	1) 3:4	2) 4:3	3) 2:1	4) 4:1
38.	The ratio of Rs 3 and	l 60 paise is		
	1) 1:20	2) 5:1	3) 1:2	4) 20:1
39.	Line has	end points		
	1) no	2) 3	3) 2	4) 4
40.	Angles are messured	in		
	1) compasses	2) protactor	3) degrees	4) centi metres
41.	Perimeter of circle i	s called its		
	1) circumference	2) area	3) diameter	4) none of these
42.	A triangle can have			
		2) two right angles	3) three obtuse angles	s 4) none of these
43.		4 sq m. its side measure		
	1) 13m	2) 14m	3) 12m	4) 11m
44.		is		
	1) length × breadth	2) length \times 4	3) $3 \times length$	4) breadth \times 6
45.		tle is the sum of the length	h of all lthes	sides
	1) 4	2) 2	3) 3	4) 6
46.	The shape of a geom	etry box is		
	1) reactangle	2) circle	3) square	4) cuboid
47.	A quadrilateral has -	diagonals	_	
	1) 1	2) 4	3) 2	4) 3
48.	The area of a square	whose side is 500 cm is		
	1) 25sqm	2) 25sqm	3) 25000 sqm	4) none
49.	$4132 \times 27 = ?$			
	1) 111564	2) 121564	3) 131564	4) 1331564
50.	$(16 + 12) - (2 \times 6) =$			
	1) 12	2) 18	3) 16	4) 14
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51.	Simplify: 7800 + 420	00 - 2000 = ?					
	1) 10000	2) 10003	3) 11100	4) 10090			
52.	Fill in the blanks in th	e given series : 6, 10, 14	, 18, 26, 30				
	1) 17	2) 20	3) 22	4) 25			
53.	A man purchased goar	t for Rs. 465. He sold it a	all for Rs 435. How mu	ch did the lose?			
	1) Rs. 40	2) Rs. 10	3) Rs. 30	4) Rs. 20			
54.	Fill in the blanks. i) 7	minutes = secon	nds.				
	1) 180	2) 420	3) 180	4) 70			
55.	The length is 8 cm and	d breadth is 4 cm of Rect	angle. Find the perimet	er?			
	1) 24 cm	2) 18 cm	3) 12 cm	4) 2 cm			
56.	The side of a square s	heet of paper is 25 cm. w	hat is its area?				
	1) 225 sq.cm	2) 625 sq.cm.	3) 125 sq. cm	4) 1225 sq. cm.			
57.	The length of book is	8 cm and its breadth is 9	cm, Find the area of no	ote book?			
	1) 56 sq. cm	2) 96 sq. cm	3) 72 sq. cm	4) 84 sq. cm			
58.	Total number of match	n points are =					
	1) 7	2) 6	3) 9	4) 8			
59.	Each angle of a square	Each angle of a square is a					
	1) Right angle	2) Acute angle	3) obtuse angle	4) None of these			
60.	In figure is cut in to tw	vo parts then it is					
	1) not symmetrical	2) symmetrical	3) conical	4) None of these			
61.	Which of the number	is prime number (4, 11, 9	9, 12)				
	1) 4	2) 9	3) 12	4) 11			
62.	An angle whose measure is more than 90° is called						
	1) acute angle	2) right angle	3) obtuse angle	4) straight angle			
63.	Angles are measured v	vith a					
	1) scale	2) rounder	3) set-sqares	4) protractor			
64.	Which of the Number	is divisible by 5 (23, 45)	, 82, 134)				
	1) 23	2) 82	3) 45	4) 134			
65.	A Car started from So take?	lapur at 4:00 am and read	ched Mumbai at 10:00 a	am. How long did the journey			
	1) 13 hours	2) 12 hours.	3) 6 hours.	4) 4 hours.			
66.	Find common factor of	Find common factor of 25 and 40					
	1) 10	2) 10.5	3) 20	4) 5			
67.	All the factors of 35 a	re					
	1) 1,7,5,35	2) 5,35	3) 0,1,35	4) 1,2,5,35			
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Dire	ction: Find out the pro-	per number for the give	en example.			
68.	Sixty - Five thousand	:-				
	1) 6900	2) 65000	3) 690	4) None of these		
69.	Which is the following	g is property of rectang	ale ?			
	1) Every angle is 60°		2) Every sides are 6	equal		
	3) opposite side are ed	qual	4) No sides are equ	al		
70.	Write the numbers in	ascending order. 720, 2	235, 374			
	1) 720, 235, 374	2) 235, 374, 720	3) 720, 374, 235	4) None of these		
71.	Multiply: 13×13					
	1) 164	2) 144	3) 169	4) 141		
72.	Below situation is rale	ated to find out : How	much can be filled in a b	oottle?		
	1) perimeter	2) volume	3) area	4) None of these		
73.	divide: 14 ÷ 5					
	1) 3.8	2) 2.8	3) 4.8	4) 5.8		
74.	The volume of a cube	=				
	1) $l \times b \times h$	2) $l \times l \times l$	3) <i>l</i> × b	4) b \times l		
75.	Item = shampoo, Quantity = 2, Rate = Rs. 55 per bottle, price = ?					
	1) 100 Rs.	2) 101 Rs.	3) 120 Rs.	4) 110 Rs.		
		PART	- II GAT			
*	Q.76. to 78: Read the following passage carefully and answer the questions choosing the correct option.					
	Spring is the sea	ason of renewal, when	new green can be seen of	on the trees and the lawns of		
	parks, spring flowers have blossomed in a riot of scent and a rainbow of colours. House shake ou					
	their dust and housewives go about in a flurry of activity. Woollens begin to disappear, the light cottons begin to come back. Lazy lizards came out of their winter sleep and go back to their job of					
	cottons begin to come back. Lazy lizards came out of their winter sleep and go back to their job of fly-hunting.					
76.	The spring season is u	sually a				
	1) time for regenerati	-	2) time to plant sapli	2) time to plant saplings		
	3) period of plenty		4) festive time			
77.	According to the passa	nge, when spring comes	s, it brings with it			
	1) a riot of green colo	ours	2) increased activity			
	3) excessive movement	nt	4) disorganised enth	usiasm		
78.	According to the passa	age, the lazy lizards con	me out to			
	1) bask in the Sun		2) catch flies			
	3) hunt for a mate		4) adore the spring ti	me		

Q.79. to 83: Read the following passage carefully and answer the questions choosing the * correct option.

One day Naina woke up early in the morning. Naina looked through the window and saw something on the windowsill. Naina saw two grey - coloured pigeons. The pigeons near building a nest the pigeons felt that the windowsill was a safe place for their nest. It was interesting to watch the pigeons everyday soon the nest was ready, though the nest looked rather untidy. However the pigeons seemed comfortable in the nest.

79.	woke up early i	n the morning.		
	1) Meena	2) Raina	3) Naina	4) Saina
80.	Naina saw two grey - o	coloured		
	1) Parrots	2) Birds	3) Peacocks	4) Pigeons
81.	The pigeons were			
	1) Playing together	2) fighting	3) building a nest	4) dancing happily
82.	Besides, the	pigeons seemed comfo	rtable.	
	1) untidy nest	2) tidy nest	3) pleasant company	4) neat and clean nest
83.	Though the nest looked	rather untidy	, the pigeons seemed	comfortable.
	1) otherwise	2) orelse	3) however	4) till
*	Direction: Identify th	e Noun from the follow	wing and tick	
84.	1) sour	2) tall	3) green	4) wasp
85.	1) polite	2) jog	3) deep	4) rude
*	Direction: Identify the	ne plural forms.		
86.	cherry : ———			
	1) cherrys	2) cherries	3) cherryes	4) cherry's
87.	wolf: ———			
	1) wolfs	2) wolfes	3) wolves	4) wolvies
88.	Mouse :			
	1) mouses	2) mice	3) mouss	4) meuse
*	Direction: Fill in the	blank's with choosing	the currect options	•
89.	This pair of jeans	very expensive.		
	1) is	2) are	3) was	4) were
90.	Jack waiting	ng for Ted near the libra	ry.	
	1) am	2) can	3) was	4) ware
*	Direction: Identify th	e word opposite in me	eaning.	
91.	Far × ————			
	1) new	2) Away	3) Near	4) Nearby
92.	Deep ×			
	1) Bottom	2) Shallow	3) Thin	4) Thick

93.	Before X ———					
	1) Close	2) Open	3) Thin	4) After		
*	Direction: Identify the correct spelling.					
94.	1) Descriptive	2) Descreptive	3) Discriptive	4) None of these		
95.	1) Sirvey	2) Sarvey	3) Surve	4) Survey		
96.	1) negateve	2) negetive	3) negative	4) nagetive		
*	Direction: Write the	e masculine / femini	ne gender of these	nouns.		
97.	Nephew =					
	1) niece	2) empress	3) mare	4) vixon		
98.	Lion = ——					
	1) tigress	2) vixon	3) lioness	4) sheep		
99.	Emperor =					
	1) empress	2) lioness	3) vixon	4) niece		
*	Direction: Identify t		2) 1			
	1) me	2) so	3) but	4) out		
101.	In a cetain code, TOGI as	ETHER is written as I	PQEGRJCT. In the sa	ame code, PAROLE will be written		
	1) NCPQJG	2) NCQPJG	3) RCPQJK	4) RCTQNG		
*		_		have been given, out of which t. Choose out the odd one.		
102.	1) Nerves	2) Auricle	3) Artery	4) Valve		
*		~ -		es is given with one term missing. ttern and fill in the blank spaces.		
103.	462, 420, 380, (),	306				
	1) 322	2) 332	3) 342	4) 352		
104.	The twon of Paranda is located on Green Lake. The town of Akram is west of Paranda. Tokhada is east of Akram but west of Paranda. Kakran is east of Bopri but west of Tokhada and Akaram. If they are all in the same district, which town is the farthest west?					
	1) Paranda	2) Kakran	3) Akram	4) Bopri		
*	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 another side of: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.					
105.	Genuine : Authentic : :	: Mirage : ?				
	1) Image	2) Transpiration	3) Reflection	4) Illusion		
106.	'Adjustment to environ					
	1) Adaptation	2) Mimicry	3) hibernation	4) aestivation		
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107.	Birds can fly due to ligh	nt body weight. This is d	ue to.	
	1) holow bones	2) hard bones	3) soft bones	4) cylindrical bones
108.	grow above the	ground:		
	1) Root system	2) Shoot system	3) Seedling	4) Leaves
109.	There are bones	in human body.		
	1) 202	2) 203	3) 205	4) 206
110.	When no force acts on	a body, it must be		
	1) moving	2) at rest	3) either B or C	4) in uniform motion
111.	Which of the following	is a simple machine?		
	1) Tumbler		3) Can	4) Bucket
112.	Earth pulls every object	towards it with a force	called.	
	1) Friction	2) Gravity	3) Tension	4) Collision
113.	The disease that can be	spread through contamin	nated water.	
	1) diphtheria	2) diarrhoea	3) malaria	4) tetanus
114.	The bones of our body			
	•	,	3) skeletal	4) digestive
115.	A mango plant grows fr			
	1) stem cutting		3) seed	4) layering
116.	keep the birds			
	1) Beaks	2) Claws	3) Feathers	4) Hollow bone
117.	Webbed feet is an adapt			
		2) reptilian birds	3) aquatic birds	4) ostrich
118.	maintains bala			0. ==
	1) Tail	2) Hands	3) legs	4) Head
119.	Which of the following	cannot change in a phys	_	
	1) volume		2) pressure	
1.20	3) chemical composition		4) temperature	
120.	Which of the following	<u>-</u>		4) C
101	1) Air	2) CO ₂	3) H ₂ O	4) Sugar
121.	Asteroids are found bet	ween the orbits of		
	1) saturn and jupiter		2) mars and jupiter	
	3) the earth and mars		4) Mars and Saturn	
122.	The planet known as the	"Earth's Twin" is		
	1) jupiter	2) saturn	3) venus	4) mercury
123.	What makes the univers	se?		
	1) million of galaxies	2) millions of stars	3) earth	4) satellites
124.	From which word does			,
- *	1) latin	2) arabic	3) english	4) none of these
125	Which of the following		o) unghon	., 110110 01 111000
149.	_	_	2) inicolmer	1) hilzanan
+_	1) western ghats forest		3) jaisalmer	4) bikaner
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126. River yangtze flows in 1) south amerika 2) australia 3) china 4) africa 127. Which of the following is the smallest continent? 1) africa 2) asia 3) australia 4) antarctica 128. The jobs of contract workers are 1) temporary 2) permanent 3) both (1) and (2) 4) none of these 129. The shopkeeper are given a licence by 1) state government 2) municipal corporation 3) central government4) court 130. Who was aryabhate? 1) mathematician 2) 300 logiest 3) archaeologist 4) none of these 131. Which was the first asian country to launch an artificial satellite? 1) south korea 2) china 3) japan 4) india 132. Where did ice-hockey originate? 1) US. 2) canada 3) U.K 4) russia 133. In which of the following sports or games are cues used? 1) golf 2) billiards 3) hockey 4) table tennis 134. Which cartoon character was created by walt disney? 1) batman 2) spider man 3) mickey mouse 4) He-man 135. Which region is called 'the land of the midnight sun' 1) Egypt 2) Norway 3) Rome 4) Moscow 136. Darjeeling is situated in					
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141. Weight is considered as 1) energy 2) pull 3) push 4) force	140. World Homeopathy I	Day is observed on			
1) energy 2) pull 3) push 4) force	1) March 25 th	2) March 31st	3) April 6 th	4) April 10 th	
	141. Weight is considered	as			
DEFENCE CAREER ACADEMY 9 Entrance Examination - 2018 P1X					

142.	Moon has less			
	1) Gravitational force	e 2) light	3) air	4) gasses
143.	Which of the following	ng is not the management ca	ategory of roads in Inc	lia?
	1) National Highways	s 2) State Highways	3) Border Roads	4) District Highways
144.	Which organization C	Construct and Manages the I	Border Road?	
	1) Border Roads Dev	elopment Board	2) National Highway	y Authority of India
	3) State Government	where Border lies	4) Defence Ministry	y
145.	Who established Mug	hal Empire in India?		
	1) Akbar	2) Babar	3) Shahjahan	4) Aurangzeb
146.	How many numbers of	of Red Balls are in Snooker's	?	
	1) 13	2) 15	3) 17	4) 20
147.	"Magnus Carlsen" is	a player of which among the	e following sports / ga	me?
	1) Cricket	2) Carrom	3) Chess	4) Tennis
148.	In which year, sikkim	become a part of Inida.		
	1) 1972	2) 1975	3) 1977	4) 1980
149.	The National Human	Rights Commission is form	ned in the year.	
	1) 1990	2) 1993	3) 1995	4) 1997
150.	The secretary-General	of UNO is Appointed by the	he	
	1) World Bank	2) Trusteeship Coucil ****	•	4) General Assembly