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



As an ISO 9001 : 2008 - Certified

#### ENT : 2019-2020 TIME : 2.00 Hrs.

MATH & GAT

Sr. No. MAXIMUM MARKS : 150

## **QUESTION - BOOKLET**

## **GENERAL INSTRUCTIONS**

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

include the successful/ qualified candidates ONLY.

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

6. 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.

9. Ask for a separate paper for rough work.

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

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

DEFENCE CAREER ACADEMY

DCA Entrance Examination - 2019

9 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

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



DCA Entrance Examination - 2019

**P.T.O.** 

1.	12 × (-13) =			
2	1) 156	,	3) -156	4) -136
2.	-4 × -9 = 1) 36		3) +13	4) -13
3.	(-16) + (-4)		0) 10	() 10
	1) >		3) =	4) none of these
4.	$2\frac{3}{4}$ is a fraction.			
	1) proper	2) improper	3) mixed	4) None of these
5.	$\frac{23}{5} =$			
	1) 4 $\frac{3}{5}$	2) 5 $\frac{3}{4}$	3) 3 $\frac{4}{5}$	4) 3 $\frac{5}{4}$
6.	The smallest fraction	n is :		
	1) $\frac{4}{4}$	2) $\frac{3}{4}$	3) $\frac{2}{4}$	4) $\frac{1}{4}$
7.	The greatest fraction	is.		
	1) $\frac{1}{8}$	2) $\frac{1}{5}$	3) $\frac{1}{3}$	4) $\frac{1}{2}$
8.	Equivalent fraction of	of $\frac{2}{3}$		
	1) $\frac{6}{12}$	2) $\frac{8}{12}$	3) $\frac{7}{14}$	4) $\frac{9}{27}$
9.	$\frac{7}{8}$ $\boxed{3}$ $\frac{3}{3}$			
	1) <	2) >	3) =	4) none of these
10.	$6\frac{4}{7} =$			
	1) $\frac{46}{7}$	2) $\frac{31}{7}$	3) $\frac{17}{7}$	4) $\frac{46}{6}$
11.	Simplest form of fra	action $\frac{15}{36}$		
	1) $\frac{4}{9}$	2) $\frac{1}{3}$	3) $\frac{5}{12}$	4) $\frac{1}{2}$
*	DEFENCE CAR	EER ACADEMY 1	Entrance Exa	mination - 2019 P.T.O.

12.	$\frac{11}{5} = \frac{\Box}{10}$			
	1) 20	2) 22	3) 44	4) 55
13.	$\frac{4}{7}$ of 49 =			
	1) 28	2) 21	3) 35	4) 31
14.	$\frac{1}{5} + \frac{3}{5} = .$			
	1) $\frac{4}{10}$	2) $\frac{4}{5}$	3) $\frac{3}{25}$	4) $\frac{4}{25}$
15.	$9 \times \frac{1}{4}$			
	1) $\frac{36}{4}$	2) $\frac{37}{4}$	3) $\frac{14}{4}$	4) $\frac{9}{4}$
16.	0.27 =			
	1) $\frac{27}{1000}$	2) $\frac{27}{100}$	3) $\frac{27}{10}$	4) $\frac{27}{1}$
17.	12.08 12.70			
	1) >	2) <	3) =	4) none of these
18.	$\frac{39}{1000}$			
	1) 0.39	2) 3.9	3) 39	4) 0.039
19.	405 m = km			
•	1) 0.405	2) 4.05	3) 40.5	4) 405
20.	32 paise = Ruj		2) 0.022	4) 0.0022
21.	1) 3.2 Mean of 2, 9, 7, 5, 2,	2) 0.32	3) 0.032	4) 0.0032
21.	1) 5	2) 6	3) 7	4) 2
22.	How many faces does	·	5) .	.) _
	1) 2	2) 4	3) 6	4) 8
23.	The radius is 8 cm, w	what is the diameter?		
	1) 16 m	2) 16 cm	3) 16 cu.m	4) 16 cu.cm
*	DEFENCE CAR	EER ACADEMY 2	Entrance Exa	mination - 2019 P.T.O.

24.	HCF of 20, 28			
	1) 4	2) 6	3) 8	4) None of these
25.	Which plane figure has			
• •	1) square	2) rectangle	3) circle	4) triangle
26.	Identify fraction 0.04 in	lowest form.		
	1) $\frac{1}{25}$	2) $\frac{2}{5}$	3) $\frac{30}{25}$	4) $\frac{4}{100}$
	23	5		
27.	How many times is the pepper popcorn'?	letter 'e' repeated in th	e sentence: 'Peter Pip	er Picked a peck of pickled
	1) Ten	2) Eight	3) Seven	4) Nine
28.	-7 - 8 - (-25) = ?			
	1) 10	2) 15	3) 16	4) 20
29.	Prime factor of 60			
	1) $5 \times 2 \times 2 \times 3$	2) 5×3×2	3) 30×2	4) None of these
30.	A number with 4 or modivisble by	ore digits is divisible by	8, if the number form	ed by the last three digits is
	1) 4	2) 2	3) 6	4) 8
31.	If the perimeter of square	re is 80 cm, find the leng	gth of its sides.	
	1) 20 cm	2) 80 cm	3) 320 cm	4) 240 cm
32.		Rs. 6,00,000 from a Dena an amount of Rs 8, 40, 0		e. After 5 years, he paid back he interest.
	1) 2,10,000	2) 2,40,000	3) 3,40,000	4) 3,10,000
33.	Find the perimeter of th	e triangle whose sides ar	e 4.8 m, 10.2 m and 5	.3 m.
	1) 20.3 cm	2) 20.3 m	3) 20.2 m	4) 20.5 m
34.	Write in index form : th	,	,	,
	1) 3 <sup>9</sup>	2) 27	3) 7 <sup>3</sup>	4) 9 <sup>3</sup>
35.	Find the square of : 12 =	= ?		
	1) 144	2) 24	3) 121	4) 442
36.	Santosh bought a case of	of 100 mangoes for Rs. 3	300. He sold them all	at Rs. 5 per mangoes. How
	much was his profit or l	nis loss.		
	1) Profit is Rs. 200	2) loss is Rs. 200	3) Profit is Rs. 20	4) loss is Rs. 20
37.	Divide : $1.393 \div 0.7 = .$			
	1) 1.99	2) 1.80	3) 1.85	4) 1.08
38.	If Nitin scored 820 out o	of 1000 marks in an exam	, what was the percent	age of the marks she scored?
	1) 76 % marks	2) 82 % marks	3) 96 % marks	4) 77 % marks
39.	Simplify : (-8) - (-3) =			
	1) -3	2) 3	3) -5	4) 5
	,	``	,	,
×	DEFENCE CAREE	RACADEMY 3	Entrance Exa	mination - 2019 P.T.O.

1)       51.00 cm       2)       50.00 m       3)       48.30m       4)       50.1 m         11       Biggest 4 digit number.       3)       9999       4)       2599         25       2i nRoman is	40.	Find the perimeter of the triangle whose sides are 18.4 m, 13.2 m and 18.5 m.			
1) 1000       2) 9000       3) 9999       4) 2599         42.       52 in Roman is       1) L1       2) IIL       3) LXI       4) LII         43.       Rajesh bought a case of 50 apples for Rs. 260. He sold them all at Rs. 5 per apple. How much was his profit or his loss.       1) Profit is Rs. 55       2) loss is Rs. 10       3) Profit is Rs. 45       4) loss is Rs. 55         44.       Find the value of : 5 % of 60       1) 5       2) 3       3) 8       4) 4         45.       If Shankar scored 72 out of 100 marks in an exam, what was the percentage of the marks he scored?       1) 76 % marks       2) 72 % marks       3) 96 % marks       4) 77 % marks         46.       How many cubic centimeterrer in one cubic metre       1) 10.00,000 ou.cm       4) None of these       47.         51) 16 0       2) 75       3) 55       4) 70         48.       Which is the number that is neither prime nor composite ?       1) 7       2) 3       3) 0       4) 1         49.       The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50.       An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) 180°         51.       Add : 105.24 - 78. 55 =		1) 51.00 cm	2) 50.00 m	3) 48.30m	4) 50.1 m
42.       52 in Roman is         1)       L1       2)       IL       3)       LXI       4)       LII         43.       Rajesh bought a case of 50 apples for Rs. 260. He sold them all at Rs. 5 per apple. How much was his profit or his loss.       1)       Profit is Rs. 55       2)       loss is Rs. 10       3)       Profit is Rs. 45       4)       loss is Rs. 55         44.       Find the value of : 5 % of 60       3)       8       4)       4         45.       If Shankar scored 72 out of 100 marks in an exam, what was the percentage of the marks he scored?       1) 76 % marks       2) 72 % marks       3) 96 % marks       4) 77 % marks         46.       How many cubic centimetter in one cubic metter       1)       10.00, 000 cu.cm       2)       10.00,000 cu.cm       4)       None of these         47.       Simplify : 10 + 3 × 100 + 5       1)       60       2, 75       3, 55       4, 70         48.       Which is the number that is neither prime nor composite ?       1)       7       2)       3       30       4)       1         49.       The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1)       42 Rs.       2)       38 Rs.       3) 36 Rs.       4) 40 Rs.         50.       An obtuse angle measures more than	41.	Biggest 4 digit number.			
1) LI       2) IIL       3) LXI       4) LII         43. Rajesh bought a case of 50 apples for Rs. 260. He sold them all at Rs. 5 per apple. How much was his profit or his loss.       1) Profit is Rs. 55       2) loss is Rs. 10       3) Profit is Rs. 45       4) loss is Rs. 55         44. Find the value of : 5 % of 60       3) 8       4) 4         5. If Shankar scored 72 out of 100 marks in an exam, what was the percentage of the marks he scored?       1) 76 % marks       2) 72 % marks       3) 96 % marks       4) 77 % marks         46. How many cubic centimetter in one cubic metre:       1) 10.00, 000 cu.cm       2) 10.00,000 cu.cm       3) 1,00,000 cu.cm       4) None of these         47. Simplify: 10 + 3 × 100 +5       1) 60       2) 75       3) 55       4) 70         48. Which is the number that is neither prime nor composite ?       1) 70       2) 38 Rs.       3) 30       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 60.66       4) 40 Rs.         50. An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) None of these         51. Add: 105. 24 - 78. 55 =       1) 69.26       2) 20.0       3) 69.66       4) 69.79         52. If one number is positive and the other negative, the product is       1) Positive       2) Negative		1) 1000 2)	9000	3) 9999	4) 2599
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profit or his loss.       1) Profit is Rs. 55       2) loss is Rs. 10       3) Profit is Rs. 45       4) loss is Rs. 55         44.       Find the value of : 5 % of 60       1) 5       2) 3       3) 8       4) 4         45.       If Shankar scored 72 out of 100 marks in an exam, what was the percentage of the marks he scored?       1) 76 % marks       2) 72 % marks       3) 96 % marks       4) 77 % marks         46.       How many cubic centimetrer in one cubic metre       1) 10,00,000 cu.cm       2) 10,00,000 cu.cm       3) 1,00,000 cu.cm       4) None of these         47.       Simplify: 10 + 3 × 100 +5       1       60       2) 75       3) 55       4) 70         48.       Which is the number that is neither prime nor composite ?       1) 7       2) 3       3) 0       4) 1         49.       The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50.       An obtuse angle measures more than       1)       80°       51.       Add: 105. 24 - 78. 55 =         1) 69.26       2) 90°       3) 69.66       4) 69.79       52.       If one number is positive and the other negative, the product is         1) Positive       2) Negative       3) both a and b       4) None of theabove.		1) LI	2) IIL	3) LXI	4) LII
44. Find the value of : 5 % of 60       3) 8       4) 4         45. If Shankar scored 72 out of 100 marks in an exam, what was the percentage of the marks he scored?       1) 76 % marks       2) 72 % marks       3) 96 % marks       4) 77 % marks         46. How many cubic centimetrer in one cubic metre       1) 10,00,000 cu.cm       2) 10,00,00,000 cu.cm       3) 1,00,000 cu.cm       4) None of these         47. Simplify: 10 + 3 × 100 +5       1) 60       2) 75       3) 55       4) 70         48. Which is the number that is neither prime nor composite ?       1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) 180°         51. Add: 105. 24 - 78. 55 =       1) 69.26       2) 20.6 69       3) 69.66       4) 69.79         52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 5,625       4)	43.	ů ů	50 apples for Rs. 260. He	sold them all at Rs. 5	per apple.How much was his
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46. How many cubic centimeter in one cubic metre         1) 10,00, 000 cu.cm       2) 10,00,000 cu.cm       3) 1,00,000 cu.cm       4) None of these         47. Simplify: $10 + 3 \times 100 + 5$ 1) 60       2) 75       3) 55       4) 70         48. Which is the number that is neither prime nor composite ?       1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) 180°         51. Add: 105. 24 - 78. 55 =       1) 69.26       2) 26. 69       3) 69.66       4) 69.79         52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : 75 = ?       1) 7,215       2) 7,230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid	45.	If Shankar scored 72 out	of 100 marks in an exam	n, what was the percen	tage of the marks he scored?
1) 10,00,000 cu.cm2) 10,00,00,000 cu.cm3) 1,00,000 cu.cm4) None of these47. Simplify: $10 + 3 \times 100 + 5$ 1) 602) 753) 554) 7048. Which is the number that is neither prime nor composite ? 1) 72) 33) 04) 149. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100. 1) 42 Rs.2) 38 Rs.3) 36 Rs.4) 40 Rs.50. An obtuse angle measures more than 1) 80°2) 90°3) 70°4) 180°51. Add : 105. 24 - 78. 55 = 1) 69.262) 26. 693) 69.664) 69.7952. If one number is positive and the other negative, the product is 1) Positive2) Negative3) both a and b4) None of these53. How many lines can be drawn through point? 1) Ten2) Infinite3) Only 1 line4) None of the above.54. Smallest three digit number 1) 9992) 9003) 1004) 10255. Find the square of : 75 = ? 1) 7,2152) 7,2303) 5,6254) 6, 22456. 3D shape is 1) Circle2) Rectangle3) Square4) Chobid57. $3^{\circ} + 3^{4} =1) 31^{3}2) 353) 6^{13}4) 6^{5}$		1) 76 % marks	2) 72 % marks	3) 96 % marks	4) 77 % marks
47. Simplify: $10 + 3 \times 100 \div 5$ 1) 60       2) 75       3) 55       4) 70         48. Which is the number that is neither prime nor composite ? 1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100. 1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) 180°         51. Add: 105. 24 - 78. 55 =       1) 69.26       2) 26. 69       3) 69.66       4) 69.79         52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : $75 = ?$ 1) 7.215       2) 7.230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^9 \div 3^4 =       1) 31^3       2) 3^5       3) 613       4) 65   $	46.	How many cubic centim	etrer in one cubic metre		
47. Simplify: $10 + 3 \times 100 \pm 5$ 1) 60       2) 75       3) 55       4) 70         48. Which is the number that is neither prime nor composite ? 1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100. 1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) 80°       2) 90°       3) 70°       4) 180°         51. Add: 105. 24 - 78. 55 =       1) 69.26       2) 26. 69       3) 69.66       4) 69.79         52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : $75 = ?$ 1) 7.215       2) 7.230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^{9} + 3^{4} =       1) 31^{3}       2) 3^{5}       3) 613       4) 65   $		•			4) None of these
48. Which is the number that is neither prime nor composite ?       1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) $80^{\circ}$ 2) $90^{\circ}$ 3) $70^{\circ}$ 4) $180^{\circ}$ 51. Add : $105. 24 - 78. 55 =$ 1) $69.26$ 2) $26. 69$ 3) $69.66$ 4) $69.79$ 52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) $900$ 3) $100$ 4) $102$ 55. Find the square of : $75 = ?$ 1) $7.215$ 2) $7.230$ 3) $5,625$ 4) $6, 224$ 56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^{\circ} + 3^{4} =       1) 31^{3}$ 2) $3^{5}$ 3) $6^{13}$ 4) $6^{5}$	47.	Simplify : $10 + 3 \times 100$	÷5		
1) 7       2) 3       3) 0       4) 1         49. The rate of interest is 12 and the period is 3 years find the interest on Rs. 100.       1) 42 Rs.       2) 38 Rs.       3) 36 Rs.       4) 40 Rs.         50. An obtuse angle measures more than       1) $80^{\circ}$ 2) $90^{\circ}$ 3) $70^{\circ}$ 4) $180^{\circ}$ 51. Add : 105. 24 - 78. 55 =       1) $69.26$ 2) 26. 69       3) $69.66$ 4) $69.79$ 52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : $75 = ?$ 1) 7,215       2) 7,230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^{\circ} \div 3^{4} =$ 1) $31^{3}$ 2) $3^{5}$ 3) $6^{13}$ 4) $6^{5}$				3) 55	4) 70
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1) 42 Rs.2) 38 Rs.3) 36 Rs.4) 40 Rs.50. An obtuse angle measures more than 1) $80^{\circ}$ 2) $90^{\circ}$ 3) $70^{\circ}$ 4) $180^{\circ}$ 51. Add: $105.24 - 78.55 =$ 1) $69.26$ 2) 26. $69$ 3) $69.66$ 4) $69.79$ 52. If one number is positive and the other negative, the product is 1) Positive2) Negative3) both a and b4) None of these53. How many lines can be drawn through point? 1) Ten2) Infinite3) Only 1 line4) None of the above.54. Smallest three digit number 1) 9992) 9003) 1004) 10255. Find the square of : $75 =$ ? 1) $7.215$ 2) $7.230$ 3) $5,625$ 4) $6, 224$ 56. 3D shape is 1) Circle2) Rectangle3) Square4) Chobid57. $3^{\circ} + 3^{4} =$ 1) $31^{3}$ 2) $3^{5}$ 3) $6^{13}$ 4) $6^{5}$		1) 7	2) 3	3) 0	4) 1
50. An obtuse angle measures more than       1) $80^{\circ}$ 2) $90^{\circ}$ 3) $70^{\circ}$ 4) $180^{\circ}$ 51. Add : 105. 24 - 78. 55 =       1) $69.26$ 2) 26. 69       3) $69.66$ 4) $69.79$ 52. If one number is positive and the other negative, the product is       1) Positive       2) Negative       3) both a and b       4) None of these         53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : $75 = ?$ 1) 7,215       2) 7,230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^{\circ} + 3^{4} =$ 1) $31^{3}$ 2) $3^{5}$ 3) $6^{13}$ 4) $6^{5}$	49.	The rate of interest is 12	2 and the period is 3 year	rs find the interest on	Rs. 100.
1) $80^{\circ}$ 2) $90^{\circ}$ 3) $70^{\circ}$ 4) $180^{\circ}$ 51. Add : 105. 24 - 78. 55 =1) $69.26$ 2) 26. 693) $69.66$ 4) $69.79$ 52. If one number is positive and the other negative, the product is1) Positive2) Negative3) both a and b4) None of these53. How many lines can be drawn through point?1) Ten2) Infinite3) Only 1 line4) None of the above.54. Smallest three digit number1) 9992) 9003) 1004) 10255. Find the square of : $75 = ?$ 1) 7,2152) 7,2303) 5,6254) 6, 22456. 3D shape is1) Circle2) Rectangle3) Square4) Chobid57. $3^{\circ} \div 3^{4} =1) 31^{3}$ 2) $3^{5}$ 3) $6^{13}$ 4) $6^{5}$		1) 42 Rs.	2) 38 Rs.	3) 36 Rs.	4) 40 Rs.
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52. If one number is positive and the other negative, the product is1) Positive2) Negative3) both a and b4) None of these53. How many lines can be drawn through point?1) Ten2) Infinite3) Only 1 line4) None of the above.54. Smallest three digit number1) 9992) 9003) 1004) 10255. Find the square of : $75 = ?$ 1) 7,2152) 7,2303) 5,6254) 6, 22456. 3D shape is1) Circle2) Rectangle3) Square4) Chobid57. $3^9 \div 3^4 = \dots$ 1) $31^3$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	51.	Add : 105. 24 - 78. 55 =			
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53. How many lines can be drawn through point?       1) Ten       2) Infinite       3) Only 1 line       4) None of the above.         54. Smallest three digit number       1) 999       2) 900       3) 100       4) 102         55. Find the square of : $75 = ?$ 1) 7,215       2) 7,230       3) 5,625       4) 6, 224         56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^9 \div 3^4 = \dots$ 1) $31^3$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	52.	If one number is positive	e and the other negative,	the product is	
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55. Find the square of : $75 = ?$ 1) 7,2152) 7,2303) 5,6254) 6, 22456. 3D shape is1) Circle2) Rectangle3) Square4) Chobid57. $3^9 \div 3^4 = \dots$ 1) $31^3$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	54.				
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56. 3D shape is       1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^9 \div 3^4 = \dots$ 1) $31^3$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	55.	-		2) 5 (25	4) ( ))4
1) Circle       2) Rectangle       3) Square       4) Chobid         57. $3^9 \div 3^4 = \dots$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	56		2) 7,230	3) 5,025	4) 6, 224
57. $3^9 \div 3^4 = \dots$ 1) $31^3$ 2) $3^5$ 3) $6^{13}$ 4) $6^5$	50.	-	2) Rectangle	3) Square	4) Chobid
1) 31 <sup>3</sup> 2) 3 <sup>5</sup> 3) 6 <sup>13</sup> 4) 6 <sup>5</sup>	57	,	2) Recumple	S) Square	1) Choold
DEFENCE CAREER ACADEMY 4 Entrance Examination - 2019 P.T.O.	2		2) 3 <sup>5</sup>	3) 6 <sup>13</sup>	4) 6 <sup>5</sup>
	*	DEFENCE CAREE	RACADEMY 4	Entrance Exa	mination - 2019 P.T.O.

58.	36 =			
	1) 9	2) 27	3) 81	4) 729
59.	If $x + 5 = 15$ then $x =$	:		
	1) 20	2) 10	3) 25	4) 5
60.	If $2y - 1 = 11$ then $y = 1$	=		
	1) 6	2) 12	3) 10	4) 5
61.	Area of triangle whose	se base is 5 cm & he	ight 152 cm.	
	1) 10 sq. cm.	2) 20 sq. cm.	3) 5 sq.cm.	4) 40 sq. cm.
62.	Primeter of square w	ith side 15 cm. is.		
	1) 30 cm	2) 60 cm	3) 120 cm	4) 45 cm
63.	Perimeter of rectangl	e with sides 7 cm &	18 cm is.	
	1) 50 cm.	2) 25 cm.	3) 100 cm.	4) 11 cm.
64.	Area of square with s	ide 10 cm is		
	1) 20 sq. cm.	2) 40 sq. cm	3) 80 sq. cm.	4) 100 sq. cm.
65.	Area of rectangle wit	h side 14 cm & 5 cn	n is.	
	1) 19 cm sq. cm.	2) 38 sq. cm.	3) 70 sq. cm.	4) 56 sq. cm.
	-3_1			
66.	$\frac{-3}{5} \frac{1}{3}$			
	1) <	2) >	3) =	4) None of these
67.	sum of the measurem	ent of all angle in tr	aingle is	
	1) 90 <sup>0</sup>	2) 180 <sup>°</sup>	3) =	4) none of these
68.	Classify triangle with	sides 20 cm, 15 cm	, 15 cm.	
	1) scalene	2) isoscales	3) equilateral	4) acute
69.	The sides of triangle	are 13 cm, 16 cm &	10 cm respectively, The trian	ngle is.
	1) acute	2) scalene	3) equilateral	4) isoscales
70.	Equilateral triangle h	ave		
	1) 3 equal sides	2) 2 equal sides	3) 3 different sides	4) none of these
71.	An angle which is gro		ess than $360^{\circ}$ is called.	
	1) acute angle	2) obtuse angle	3) adjacent angle	4) reflex angle
72.			ngle is 180 <sup>°</sup> are called.	
	1) complementary	2) supplementary	3) adjacent	4) none of these
73.	Complement of angle	$e  40^{\circ}$ .		
	1) 45 <sup>°</sup>	2) 50°	3) 40 <sup>0</sup>	4) $60^{\circ}$
74.	7 g = kilogram	n.		
	1) 0.7	2) 0.07	3) 0.007	4) 0.0007
75.	$14 \text{ m } 5 \text{ cm} = \dots$			
	1) 14.5	2) 14.05	3) 1.405	4) 1.45
+ 🗖	DEFENCE CAR		5 Entrance Exa	mination - 2019

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## PART - II GAT

# \* Q.76. to 79 : Read the following passage carefully and answer the questions choosing the correct option.

#### PASSAGE - I

Nishad, a boy of seven (also called Seven because his name means the seventh note on the musical scale) and his ten-year-old sister Maya are very curious about one Mr Nath. Then one day the children's marble rolls into Mr Nath's room, and Nishad gets a chance to see him. Is he a crook on the run? Why is his face badly scarred? Why has he no friends?

Nishad's mother, a doctor, knows Mr Nath as a patient, who is very polite.

76.	How old was Nishad?	?		
	1) a boy of seven	2) a boy of nine	3) a boy of ten	4) very little child
77.	His sister name was .			
	1) Chaya	2) Radha	3) Maya	4) Mayuri
78.	What was Nishad's m	other?		
	1) a doctor	2) a lawyer	3) a homemaker	4) a clerk
79.	About whom Maya w	as very curious?		
	1) Mr. Nath	2) Nishad	3) Her mon	4) Father
*	Q.80. to 84 : Read correct option.	the following passage	carefully and answer	the questions choosing the
		PASS	SAGE - I	
	Once there was a talk	ing fan		
	Electrical his chatter			
	I couldn't quite hear	what he said		
	And I hope it doesn't	matter		
	Beacause one day so	mebody oiled		
	His little whirling me	otor		
	And all the mystery v	vas spoiled		
	He ran as still as wate	er.		
80.	Talking fan needs			
	1) electricity	2) water	3) fire	4) wind
81.	I couldn't quite hear v	what he said i.e means		
	1) It works very fast	that I couldn't attend oth	ners.	
	2) It has gone defected	ed.		
	3) Its language is electron	ctrical thats why		
	4) I am hard to get it.			
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82.	What made mystery spoil?				
	1) oiling	2) repearing	3) washing	4) cleaning	
83.	It gives steady run				
	1) as fast as deer		2) as slow as tortoise	9	
	3) as still as water		4) a still as wind		
*	Direction : Answer t	he following questions	by identifying noun.		
84.	I don't like to fight for	r rights.			
	1) like	3) fight	3) I	4) rights	
85.	To take bribe or to giv	e bribe means to give bin	rth to crime.		
	1) means	2) crime	3) take	4) or	
*	Direction : I dentify	the gender going oppo	osite.		
86.	Prince				
	1) Princes	2) Princess	Queen	4) Widow	
87.	Vixon				
	1) lion	2) tiger	3) wolf	4) fox	
*	<b>Direction : Identify</b>	the correct 'Plural' for	m of the words given	ı below.	
88.	Syllabus				
	1) Syllabus	2) syllabuses	3) sylabuses	4) sylabi	
89.	louse				
	1) louses	2) lous'	3) lice	4) louse	
90.	Wife				
	1) wifes	2) wife's	3) wives	4) wifees	
*	Direction : do as Dir	rected:			
91.	Find the word with co	rrect spellings.			
	1) lie-utenant	2) lefthant	3) leftnaunt	4) liftnant	
92.	1) Kernel	2) Kernal	3) cornel	4) colonel	
*	Direction : Give the	synonyms of :			
93.	Rich				
	1) moneyed	2) poor	3) drastic	4) worse	
94.	Mejority				
	1) less in numbers		2) maximum in num	bers	
	3) scarcity		4) countless		
*	Direction : I dentify	the pronoun.			
95.	Manish and Mona can	understand that language			
	1) Manish	2) Mona	3) understand	4) that	
×	DEFENCE CARE	ER ACADEMY	7 Entrance Exa	mination - 2019 P.T.O.	

*	Direction : Identify the verb "work doesn't go fail if done with proper will".					
96.	1) go	2) if	3) proper	4) work		
*	Direction : Give the Antonyms of :					
97.	Shallow					
	1) deep	2) broad	3) wide	4) highted		
98.	Rude					
	1) noisy	2) cruel	3) polite	4) timid		
*	Direction: Identify the	e adjectives from the f	following.			
99.	1) justice	2) loyal	3) judgement	4) sympathy		
100.	kindness	2) honesty	3) population	4) brave		
101.	If in a code language, CO MOULDING be written		KC and MARGIN is w	ritten as LZQFHM, how will		
	1) CHMFINTK	2) LNKTCHMF	3) LNTKCHMF	4) NITKHCMF		
*		the following questions e manner and one is di		een given, out of which dd one.		
102.	1) Potassium	2) Silicon	3) Zirconium	4) Gallium		
*				iven with one term missing. and fill in the blank spaces.		
103.	1, 9, 17, 33, 49, 73, (	)				
	1) 97	2) 98	3) 99	4) 100		
104.	turned to his left and wa		n turned to his right an	l walked 20 metres. He then d walked 15 metres. At what		
	1) 35 metres East	2) 35 metres Nort	3) 40 metres East	4) None of these		
*	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.	Forecast : Future : : Reg	gret : ?				
	1) Present	2) Atone	3) Past	4) Sins		
106.	Curdling of milk is —					
107	1) reversible	2) irreversible	3) harmful	4) physical		
107.		e of both — & w		()		
108	1) oxygen	2) hydrogen her are caused by the —	3) neon	4) sulfur		
100.	1) sun	2) moon	3) nature	4) Venus		
109.	Air is mixture of ——	<i>,</i>	<i>c</i> , <i>naturo</i>	.,		
	1) water	2) gases	3) minerals	4) dust		
*	DEFENCE CAREE	RACADEMY 8	Entrance Exa	mination - 2019 P.T.O.		

110. In the atmospheric air	gas is present	in highest percentage.	
1) oxygen	2) carbon dioxide	3) nitrogen	4) hydrogen
111. — percentag	e of oxygen is present		
1) 21	2) 30	3) 6	4) 22
112. — is celebrate	•		
	2) 21 <sup>st</sup> march		4) 1 <sup>st</sup> may
113. — of the ear			
1) 71%	,	3) 17%	4) 3%
114 is a not & d			
	2) Jammu		4) Punjab
115. which of the following			4 1
1) fruit	, 0	3) medicine	4) honey
116 is state an 1) tiger		2) montrou	() shales
1) tiger 117. ——— influence	,	3) monkey	4) shekru
1) human	-	3) animals	4) microorganisms
118. which of the following			4) Incroorganishis
1) coconut	-	3) cactus	4) mango
119. — is known	-	5) cuctus	r) mungo
1) lizard	-	3) peacock	4) snake
120. temperature at day tim	,	-) F	.,
1) high		3) cool	4) medium
121. Which one of the follo	wing does NOT make st	ubstance a resource?	
1) utility	2) value	3) quantity	4) time
122. Which of following is	more densely populated	compared to the other	rs?
1) Deserts	2) thick forest	3) Plains	4) Mountains
123. Which one of the follo	wing is leading produce	r of copper in the worl	d?
1) Bolivia	2) Chile	3) Ghana	4) Zimbabwe
124. Golden fibre refers to	,	,	,
1) tea	2) cotten	3) jute	4) copper
125. For which of the follow	,		
1) mining	2) Fishing	3) forestry	4) Industrial set-up
126. Fossils are the remain		c) 101001j	.) <u></u>
1) Plants	2) Animals	3) Both a and b	4) None of the above
127. The metamorphic rock	· ·		.,
1) High temperature	2) High pressure		4) Both a and b
128 minerals are f		-	., 2000 a una 0
1) Silica and alumina		2) Silica and magnes	sium
3) Nickel and iron		4) Silica and iron	
<b>★</b> DEFENCE CARE	ERACADEMY	Entrance Exa	amination - 2019 P.T.O.
			1.1.0.

129. Which is not an erosional feature of sea waves?				
1) Cliff	2) Beach	3) Sea cave	4) None of these	
130. The depositional fea	ature of a glacier is:			
1) Flood plain	2) Beach	3) Moraine	4) None of these	
131. Who is known as th	e Father of our Nation?			
1) Jawaharlal Nehru	1 2) Mahatma Gandhi	3) Rajendra Prasad	4) Sardar Patel	
132. How many colours	are there in our National F	lag?		
1) Two	2) Three	3) Four	4) Five	
133. 20 million is equal	to?			
1) 2 lakh	2) 20 lakh	3) 20 crore	4) 2 crore	
134. Largest island in the	e world is?			
1) Green Land	2) New Guinea	3) Madagascar	4) Sumatra	
135. The average of first	six odd number is?			
1) 5	2) 6	3) 7	4) 8	
136. P V Sindhu is assoc	-			
1) Wrestling	2) Boxing	3) Chess	4) Badminton	
137. 6) Which is the long $1 \times C$	-	2) 4		
1) Ganga	2) Nile	3) Amazon	4) Brahmaputra	
	rchased 77% stack in India			
1) Wal-Mart	2) Amazon	3) Hershey	4) Tota	
	cecraft will probe the depth	-		
1) Mercury	2) Venus	3) Jupiter	4) Mars	
	ter Narendra Modi ranked i		e Forbes powerful.	
1) 8 <sup>th</sup>	2) 9 <sup>th</sup>	3) 10 <sup>th</sup>	4) 12 <sup>th</sup>	
141. Hood plains are				
1) flat	2) fertile	3) barren	4) both a and b	
142 is an add on	e in the following.			
1) waterfall	2) levees	3) delta	4) Moraines	
143. High speed railway	Wuhan-Guangzhou is used	for transport in		
1) Gree land	2) Denmark	3) Italy	4) China	
144. Kind of communica	tion in which you get ideas	and and information f	from particular source is called	
comr	nunication.			
1) analogue	2) directional	3) one way	4) Two ways	
145. Who amongst the fo	ollowing is also known as "	'Rashtrasant''?		
1) Namdev	2) Tukaram	3) Baba Amte	4) None of these	
	REERACADEMY	10 Entrance Ex	amination - 2019 P.T.O.	
			1.1.0.	

146. How many countries will participate in 2018 FIFA world cup Football, Fussia. 2) 28 1) 24 3) 30 4) 32 147. Which Team wins the champion's Trophy Hockey 2018? 4) Argentina 2) Pakistan 3) Australia 1) India 148. Number of schedules in Indian constitution. 1) 7 2) 8 3) 9 4) 12 149. Who is the sovereign in India? 1) President 2) Prime Minister 3) Parliament 4) Constitution 150. World Press freedom Day is observed on 1) 28th April 2) 20<sup>th</sup> April 3) 3<sup>rd</sup> May 4) 5<sup>th</sup> May \*\*\*\*\*



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