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## **DCA ENTRANCE EXAMINATION - XI**

**DEFENCE CAREER ACADEMY**,

# AURANGABAD.

As an ISO 9001 : 2008 - Certified

ENT: 2018-2019 TIME : 2.00 Hrs.

Maths & 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.

This Test Booklet contains 150 items (Questions). Question No. 1 to 150 (MCQ) carry 1 6. 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.

IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD 8. 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

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

#### THANK YOU AND BEST OF LUCK



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**P.P.P**.

		Part - I	[ Math	
01.	What is the common	n difference of the A.P. 10,	11.5, 13, 14.5,?	
	1) 1.5	2) -1.5	3) 2.5	4) -2.5
02.	Which of the follow	ing are the next two terms of	of the sequence 2, 5, 8	, 11, ?
	1) 13, 16	2) 13, 17	3) 14, 17	4) 14, 16
03.	Which of the follow	ving sequences are in A.P. ?		
	i) 1, 3, 6, 10	ii) 3, 8, 13, 18,	iii) 7, 4, 1, -2,	iv) -10, 13, -16, 11,
	1) (i) and (ii)	2) (ii) and (iii)	3) (iii) and (iv)	4) (iv) and (i)
04.	for an A.P., $a = 1$ and	d d = 4. What is the value of	$f n. if t_n = 81?$	
	1) 22	2) 21	3) 20	4) 19
05.	Which one of the fo	llowing formula is true to f	ind the sum of first n	terms of an A.P.?
	$1) S_n = \frac{n}{4}(a-l)$	$2) S_n = \frac{n}{4}(l-a)$	$3) S_n = \frac{n}{2}(a+l)$	$4) S_n = \frac{n}{2}(l-a)$
06.	What are the roots of	of the quadratic equation $2x^2$	$x^{2} + 6 = -7x^{2}$	
	1) $-2, \frac{3}{2}$	2) $-2, \frac{2}{3}$	3) $-2, -\frac{2}{3}$	4) $-2, -\frac{3}{2}$
07.	If one of the roots of	f the quadratic equation kx <sup>2</sup>	+ 2x - 8 = 0 is -2, then	n what is the value of k?
	1) 2	2) 3	3) 1	4) 4
08.	If the point (3, -(1))	lies on the graph of the equa	ation $ax + 7y = 2$ , then	what is the value of a ?
	1) 6	2) 3	3) -3	4) 1
09.	A die is thrown. E is	s the event that the uppermos	st face shows a prime	number. What is E equal to?
	1) {1, 3, 5}	2) {2, 3, 5}	3) {1, 2, 3}	4) {2, 3, 4}
10.		8, 9} and $A = \{1, 5, 8\}$ , what		
		2) {1, 2, 3}	3) {7, 8, 9}	4) {2, 3, 7, 9}
11.		ark of the class 10-19?		
10	1) 14.5	2) 29	3) 4.5	4) 9
12.		ving is not a measure of the	•	
	1) Mean	2) Median	3) Mode	4) Standard deviation
13.	cm. What is the length	of PR?		A = 3  cm, AQ = 4.5  cm  and  PB = 2
	1) 5 cm	2) 4 cm	3) 3 cm	4) 6.5 cm
14.		-		icm, what is the length of SR?
	1) 8 cm	2) 10 cm	3) 12cm	4) 16 cm
15.		nedian. If $EF = 18 \text{ cm}$ , $DE^2 + D$		0
	1) 9 cm	2) 14 cm	3) 4.5 cm	4) 7 cm
16.	In $\triangle$ ABC, AB = 24cm	m, BC = $32$ cm and AC = $40$ cm	• 1	
	1) An acute angled tria	ngle	2) An obtuse angled t	riangle
÷-	3) A right angled triang		4) Triangle is not pos	
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17.	What type of quadrilateral is a parallelogram inscribed in a circle ?			
	1) Rectangle	2) Square	3) Rhombus	4) Trapezium
18.	Where does the orthocent	re of a right angle triangle lie	?	
	1) In the interior of the tria	ngle	2) In the exterior of the	triangle
	3) On the hypotenuse		4) At the vertex of the r	ight angle
19.	If the ratio of the circumfe circle ?	rence to the area of a circle i	s numerically 2 : 7, then w	what is the diameter of the
	1) 7	2) 14	3) $\frac{7}{\pi}$	4) $\frac{14}{\pi}$
20.	The radius of a circle is 5.	5 cm. What is the measure o	f the arc of this circle who	ose length is 6.05 cm?
	1) 31.5°	2) $60^{\circ}$	3) 63 <sup>0</sup>	4) 120 <sup>0</sup>
21.	What is the length of a tan 24 cm ?	gent segment drawn from a	point 26 cm away from t	he centre of a circle of radius
	1) 25cm	2) 13cm	3)12cm	4) 10 cm
22.	If the slope of the line join	ing the points (k, - 4) and (-	1, -6) is -2, then what is t	he value of k?
	1) 2	2) -2	3) 1	4) -1
23.	The equation of line is 3x	+ 6y - 9 = 0, then the slope is	S	
	1) -1/2	2) -1	3) 1/2	4) -2

24. Two similar right triangles ABC and PQR are as shown in the figure. If AB =  $\sqrt{3}$ , PQ =  $\frac{\sqrt{3}}{2}$ , BC=1. Find

PR=?

 $\mathbf{P}$ Q R  $\mathbf{B}$ 3)  $2\sqrt{3}$ 1) 2 2) 1 4) 4 For the angle in standard position, if the initial arm rotates 220° in clockwise direction, then in which 25. quadrant will the terminal arm be ? 1) Quadrant I 2) Quadrant II 3) Quadrant III 4) Quadrant IV The value of which of the following is 1? 26. (1))  $\cot^2 \theta - \csc^2 \theta$ 2)  $\csc^2\theta - \cot^2\theta$ 3)  $\csc^2\theta + \cot^2\theta$ 4)  $\tan^2 \theta - \sec^2 \theta$ What is the distance between the point A(7, 5) and B(2, 5)? 27. 1)02) 2 3) 5 4)7 What is the equation of a line passing through (2, -(1)) and parallel to the line 3x + 4y = 10? 28. 1) 3x + 4y + 2 = 02) 3x + 4y - 2 = 03) 3x - 4y - 2 = 04) -3x + 4y - 2 = 029. An arc of a circle of radius 10 cm subtends an angle of 72° at the centre. What is the length of the arc ? 1) 12.56 cm 2) 6.28 cm 3) 125.6 cm 4) 62.8 cm

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30.		rcle is 110 cm. What is the le 2) 33 cm	•	le whose measure is $72^{\circ}$ ? 4) 55 cm
31.	1) 22 cm The diameter of a solid me What will be the length of	etallic sphere is 18 cm. It is r	3) 44 cm nelted and drawn into a w	/
	1) 36 m	2) 54 m	3) 108 m	4) 144 m
32.	If $\alpha + \beta = -2$ and $\alpha^2 + \beta$	$^2 = 74$ , what is the quadratic	c equation whose roots a	are $\alpha$ and $\beta$ ?
		2) $x^2 + 2x - 35 = 0$		
33.		$\frac{1}{2}$ nmon tangents that can be dr		
34.		2) 2 which the simultaneous equa	3) 1 ations mx + 5y - 11 = 0 and	4) no common tangent d $14x + 7y - 15 = 0$ do not have
	unique solution ? 1) 10	2) 14	3) 11	4) 15
		,		4) 15
35.	What is the value of $\frac{1}{x} + \frac{1}{x}$	$\frac{1}{y}$ , if $\frac{5}{x} + \frac{9}{y} = 6$ and $\frac{1}{x} + \frac{5}{y}$	= 30 ?	
	1) 6	2) –6	3) 4	4) – 4
36.	If the slope of the line join	ing the points (2, k) and (–4	$(2, 2)$ is $\frac{1}{2}$ , then what is the	value of k?
	1) 2	2) 3	3) –4	4) 5
37.	For the angle $\theta$ in standard of cot $\theta$ ?	d position, if the terminal arr	n passes through the poin	t $(6, -8)$ , then what is the value
	$(1) - \frac{4}{3}$	2) 4	3	3
	$1) - \frac{1}{3}$	2) $\frac{4}{3}$	$(3) - \frac{3}{4}$	4) $\frac{3}{4}$
38.	What is the value of mean	$f(\bar{x})$ , if $\sum f_i x_i = 30$ and $\sum f_i x_i = 30$	$F_{i} = 6$ ?	
	1) $\frac{1}{5}$	2) 5	3) 24	4) 36
39.	What is the roots of the qu	uadratic equation $6x^2 - 13x$	+6=0?	
	1) $\frac{2}{3}, \frac{3}{2}$	2) $\frac{2}{3}, -\frac{3}{2}$	$(3) -\frac{2}{3}, \frac{3}{2}$	4) $-\frac{2}{3}, -\frac{3}{2}$
40.	Three conis are tossed sim	nultaneously. P is the event of	f getting at least two head	ls. What is Pequal to ?
	1) { HHH, HHT, HTH, '	THH}	2) {HHT, HTH, THH	[}
	3) {HHT}		4) {HTH, THH}	
41.		in $\triangle$ DEF, DE = DF. $\angle$ B. Stheir corresponding heights	•	C) = $32 \text{ cm}^2$ and A ( $\Delta \text{ DEF}$ ) =
	1) 16 : 49	2) 49 : 16	3) 4 : 7	4) 7 : 4
42.		5cm, $PF = 10$ cm. What is th		
42	1) 1 : 3	2) 3 : 1	3) 2 : 3	4) 3 : 2
43.	In $\triangle$ ABC, AB = 12 cm. 1) An acute angled triangle	BC = 10  cm, AC = 8  cm. W	(hat type of $\Delta$ ABC is ? 2) An obtuse angled tria	angle
	3) A right angled triangle	~	4) An isosceles triangle	0
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44.		the with radius 8cm. T is a possible $\mathbf{B} = 70^{\circ}$ . What is the measure		ircle. A and B are the point on the
	1) 110 <sup>0</sup>	2) 70 <sup>0</sup>	3) 55 <sup>0</sup>	4) 35 <sup>0</sup>
45.	Where does the circum	centre of a right angled triar	ngle lie ?	
	1) In the interior of the	triangle	2) In the exterior of t	he triangle
	3) At the vertex of the r	right angle	4) At the midpoint of	f the hypotenuse
46.	For the angle in standar quadrant will the termi	rd position, if the initial arm nal arm be ?	rotates 230° in anticlockwi	se direction, then in which
	1) Quadrant I	2) Quadrant II	3) Quadrant III	4) Quadrant IV
47.	For the angle $\theta$ in standard value of cosec $\theta$ ?	dard position, if the terminal	arm passes through the po	bint $(-5, 12)$ , then what is the
	1) $\frac{12}{13}$	2) $\frac{13}{12}$	$(3) - \frac{12}{13}$	$(4) - \frac{13}{12}$
48.	A (-2, 3), B(4, -3), C(	4, 2), D(3, k). If line AB is p	parallel to line CD, then w	hat is the value of k?
	1) 3	2) –3	3) 1	4) -1
49.	What is the common d	ifference of the A. P. 239, 2	36, 233,?	
	1) 3	2) –3	3) 4	4) -4
50.	In given figure, DE  B0	C, if $AB = 7.6$ cm, $AD = 1.9$	cm, then AE : EC is :	
		B	E C	
	1) 1 : 4	2) 1 : 3	3) 4 : 1	4) 3 : 1
51.	If sec $\theta = \sqrt{\frac{13}{12}}$ , then t	the value of sin $\theta$ - cos $\theta$ is		
	1) $\frac{1}{\sqrt{12}}$	2) $\frac{1-\sqrt{12}}{\sqrt{13}}$	3) $\frac{1+\sqrt{12}}{\sqrt{13}}$	4) $\frac{1}{\sqrt{13}}$
52.	What is the value of D	, for the simultaneous equa	tions 3x + 2y + 11 = 0 and	7x - 4y = 9?
	(1)) 26	2) –26	3) 62	4) -62
53.	Two coins are tossed s	imultaneously. What is the p	robability of getting at leas	t one tail ?
	1) $\frac{1}{2}$	2) $\frac{4}{3}$	3) $\frac{3}{4}$	4) $\frac{1}{4}$
54.	The values of mean and of the median ?	d mode for a certain frequen	ncy distribution are 96 and	93 respectively. What is the value
	1) 92	2) 95	3) 94	4) 97
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55.	Which of the following a 1) 1,3,4,10,		3) 28, 26, 24, 22,	(1) $(1)$ $(2)$ $(2)$ $(3)$ $(1)$
	1) 1,3,4,10,	2) 5, 0, 12, 24,	5) 28, 20, 24, 22,	4) 4, 2, 3, 1,
56.	If $\sin \theta = \frac{12}{37}$ , then the v	value of $\cot \theta$ is :		
	1) $\frac{37}{35}$	2) $\frac{35}{37}$	3) $\frac{12}{35}$	4) $\frac{35}{12}$
57.		of a circle of radius 41 cm at a $2$		
58.	(1)) 40 In the figure, seg PO is the	2) 80 ne diameter of the circle with	3) 20 centre 3)Chord AB $\perp$ Di	4) 41 (ameter PO at 4) $DO = 9AB$
	= 30, Then PQ $=$	P		
	1) 17	2) 26		
	1) 17		В	
	3) 34	4) 52 A D	в	
59.	AB and AC are tangent s	egments to a circle with centr	e O at B and C respective	ly from point A in the exterior
	<u> </u>	of each tangent segment is each	-	• •
	1) 7 $\sqrt{2}$	2) $7\sqrt{3}$	3) $14\sqrt{2}$	4) 14 $\sqrt{3}$
60.	The co - ordinates radius	s of circumcircle of $\triangle PQR$ if	P = (5, -(1)), Q c(-3,3)	and $R = (-2, 6)$ is =
	1) $2\frac{1}{2}$	2) 10	3) $1\frac{1}{2}$	4) 5
61.	The point on y-axis whic	h is equidistance from the poi	nt (-5,-2) and (3,2) is	
62.	1) (0,-2) If the distance between t	2) (-2,0) he points (k,-2) and (-2, -5) is	3) (2,-2)	4) (2,2)
02.	(1)) $k = 6$ or $k = 2$	2) k = 6 or k = 2		4) $k = -6$ or $k = -2$
63.	If $\frac{4\sin A}{3\cos A} = 1$ , then the v	value of sec A is :		
			5	4
	1) $\frac{3}{5}$	2) $\frac{5}{3}$	3) $\frac{5}{4}$	4) $\frac{4}{5}$
64.	$\frac{1}{2}\sin^2 90^0 + \frac{1}{4}\cos^2 60^0 + c$	$\cot^2 90^0 - \frac{3}{4} \sec^2 30^0$		
	5	7	5	7
	1) $\frac{5}{16}$	2) $-\frac{7}{16}$	3) $-\frac{5}{16}$	4) $\frac{7}{16}$
65.	The value of $\sin 75^\circ + \cos 75^\circ$	os 75º is :		
	1) $\sqrt{3}$	2) $\frac{\sqrt{6}}{2}$	3) $-\sqrt{3}$	4) $\sqrt{3} + 1$
66.		ngle is 17 cm long and the per	imeter of the rectangle is	46 cm, then the area of the
	rectangle is : (1)) $120 \text{ cm}^2$	2) 112 cm <sup>2</sup>	3) 132 cm <sup>2</sup>	4) 289 cm <sup>2</sup>
67.	< <i>/ / /</i>	the line $2y = mx + 5$ , then what	,	.,,
	1) $\frac{11}{2}$	2) $-\frac{11}{2}$	3) $\frac{2}{11}$	4) $-\frac{2}{11}$
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68.	Arc of a circle subtends and angle of $189^{\circ}$ at the centre of the circle if the length of the arc is 33 cm, then the				
	radius of circle is :				
	1) 3 cm	2) 7 cm	3) 10 cm	4) 14 cm	
69.	The measure of the con	mplementary ang	le of measure 55° is		
	1) $145^{\circ}$	2) 55 <sup>°</sup>	3) 35 <sup>0</sup>	4) None of these	
70.	The measure of an angle	e is four times the r	neasure of its supplementary angle	. Then the measure of the angle is	
	1) 35 <sup>0</sup>	2) 72 <sup>0</sup>	3) 108°	4) 144 <sup>0</sup>	
71.	Which of the following	pairs the pairs of	co-terminal angles ?		
	1) $425^{\circ}$ , $65^{\circ}$	2) 430°, 70	$3) 450^{\circ}, 90^{\circ}$	4) $720^{\circ}$ , $40^{\circ}$	
72.				One sicle of the smaller triangle is	
	10 cm. Then the corres	ponding side of t	he bigger triangle is		
	1) 15	2) 20	3) 30	4) 7.5	
73.	Which of the following	statements is fals	se?		
	i. The sum of any two	sides of the triang	gle together is greater than the thi	rd side.	
	ii. If any two angle of a	triangle are not c	ongruent, then the side opposite	to the smaller angle is smaller.	
	iii. Each of the perpend	licular sides of a r	ight triangle is smaller than the hy	potenuse.	
		ne segment to a li	ine drawn from a point outside th	e line tis the greatest.	
	1) i.	2) ii	3) iii	4) iv	
74.	Find the ratio in which	the line segment	joining the points (6,4) and (1)),-	(7) is divided by the x-axis.	
	1) 4:7	2) 7:4	3) 5:7	4) 7:5	
75.	If a square is divided in	to two congruent	t parts then which of the following	g figures are obtained ?	
			1		
	1) Two equilateral trian	ngles	2) A square whose area is $\frac{1}{3}$ the	ne area of the other part.	
	3) Two rectangles		4) All of these		
			Dont IL CAT		

#### Part - II GAT

#### COMPREHENSION

# Direction. Q. 76-78 In this section you have a short passage. After the passage you will find several question based on the passage. First, read the passage and answer the questions based on it.

The last twenty years have witnessed an explosion of growth opportunities for women in industry, especially at the decision making level. Today more young women have a change to walk the competitive edge and proved that their abilities are at par with if not better than those of their male colleagues.

However, as they are beginning to storm the traditionally male bastions of management they are finding out that the roads to success are paved with difficulties. They discover very early in their career that the battle for supremacy in corporate organizations calls into play not only the forces, of power, control and dominance, but issues of gender, attitude and acceptance of women.

76. The first sentence of the passage implies that job opportunities

1) for women have increased.

(2) in industry have increased.

(3) for women at the managerial level have increased.

(4) in the corporate sector have increased.

77. Which one of the following phrases best reflects the meaning of "male bastions"?

- 1) Management styles of males.
- (2) Management areas dominated by males

(3) Careers for males

(4) Management abilities of males.

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- 78. According to the passage, women in high positions have
  - 1) no problems at all.
  - (2) some problems.
  - (3) Problems related to power and control.
  - (4) Problems related to roles of women in society.

#### SPOTTING ERRORS

**Directions:** Q.79-84: In this section, six sentences are given. Each sentence has three parts indicated by a, b and c. Read each sentence to find out whether there is an error in one of the parts. If you find an error in any one of the parts [a, b, c,] indicate your response by blackening the letter related to that part in the Answer Sheet provided. If a sentence has no error, indicate this by blackening [d] which stands for "No error".

- 79. When the teachers are on strike 1) /and a notice to this effect is pasted on the college gate(2)/there is no sense to go there.(3)/No error(4)
- 80. Neither India nor Pakistan 1) /have yet acquired (2) /the capability to produce nuclear weapons.(3) / No error(4)
- 81. The manager of the bank was busy;1)/so he asked them to come and(3)/see him between two to three in the afternoon(3)/No error(4)
- 82. The conductor asked the passenger 1) /why had he not purchased his (2)/ ticket for the journey(3)/ No error(4)
- 83. I shall write1)/to you (2)/when I shall reach Bangalore (3)/No error(4)
- 84. What sort of a drug this is1)/that no one seems to be able to predict its long-term effects (2)/ with any certainty?(3) / No error(4)

#### SENTENCE IMPROVEMENT

**Directions : Q. 85 - 90**: In this section, you will find a few sentences, parts of which are printed in bold. You may also find a group of words which is printed in bold. For each bold part, four words/ phrase are listed below. Choose the word nearest in meaning to the bold part and blacken the corresponding space in the Answer Sheet.

85.	The old man shows no sign of <b>infirmity</b> even though he is eighty years old			
	1) lack of firmness	(2) Feebleness	(3) fickleness	(4) indolence
86.	Most of the politician	s these days have a large nu	mber of <b>toadies</b> aroun	d them.
	1) servants	(2) followers	(3) sycophants	(4) professional assistants
87.	The weavers have to a	do <b>monotonous</b> work.		
	1) autonomous	(2) irksome	(3) exhausting	(4) repetitive
88.	There is not a <b>single</b> w	vord that is <b>redundant</b> in th	e report.	
	1) unimportant	(2) not needed	(3) bombastic	(4) flowery
89.	The country economy	is beginning to <b>look up</b> now	V.	
	1) look clear	(2) go down	(3) remain static	(4) improve
90.	We agreed to have the	e Town Hall as the <b>rendezv</b> e	ous for all the scout tro	pops.
	1) assembly	(2) camping ground	(3) picnic spot	(4) meeting place
		SENTENCE	COMPLETION	
	ction (Q.91 to 96) : Pic. ingfully complete.	k out the most effective word	d from the given words	s to fill in the blank to make the sentence
91.	The two sisters look s	othat it is difficult to t	tell one from the other.	
	1) same	2) similar	3) identical	4) alike
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92.	Since one cannot read every book, one should be content with making a selection.			
	1) normal	2) standard	3) sample	4) judicious
93.	Success comes to those	e who are vigilant not to per	mitfrom the cho	osen path.
	1) diversion	2) deviation	3) affected	4) inflicted
94.	His actions had	pain and suffering on thou sa	ands of people.	
	1) deplored	2) eliminated	3) obstruction	4) inflicted
95.	He has good ove	er the famous world languag	ges.	
	1) authority	2) expertise	3) hold	4) command
96.	The lions in the Gir forest are protected as they come under species.			
	1) dangerous	2) engendered	3) enamoured	4) endangered

#### **SYNONYMS**

**Direction.** Q 97 & 98 In this section you will find a a few sentences, parts of which are italicised. You may also find only a group of words which is italicised. For each italicized part, four words / phrases are listed below. Choose the word/ phrase nearest in meaning to the italicised word or phrase.

97.	A civilised Roman banquet was a thing of great richness, style and decorum.				
	1) table	(2) ornament	(3) feast	(4) palace	
98.	28. Last evening I was <i>held up</i> at the meeting.				
	1) delayed	(2) stopped	(3) detained	(4) kept	

#### ANTONYMS

**Directions (Qs. 99 & 100):** In this section each item consists of a word or a phrase which is underlined in the given sentence. It is followed by four words or phrases. Select the word or phrase which is closest to the opposite in meaning of the underlined and bold word or phrase.

99.	He was <b>immaculately</b>	v dressed for the party.		
	(1) Imperfectly	(2) Irresponsibly	(3) Incompletely	(4) Moderately
100.	The teachers have been	n observing his <b>impertinent</b>	behavior.	
	(1) Indifferent	(2) Polite	(3) Rude	(4) Unpleasant
101.	A boy walks at a speed	l of 5 m/s towards a plane m	irror. The boy and his	image in the mirror are moving
	(1) towards each other	at a speed of 5 m/s	(2) away from each	other at a speed of 5 m/s
	(3) towards each othe	r at a speed of 10 m/s	(4) away from each	other at a speed of 10 m/s
102.	The size of an image for	ormed in a pinhole camera n	nay be increased by	
	(1) placing the object i	nearer to the camera		
	(2) reducing the size of	f the object		
	(3) decreasing the dist	ance between the pinhole an	d the screen	
	(4) making the pinhole	bigger		
103.	The Centre of the sphe	ere of which the spherical mi	rror forms a part is cal	led
	(1) Centre of curvature	e	(2) focus	
	(3) pole		(4) vertex	
104.	A 110 volt toaster over	n draws a current of 6 amper	e on its highest setting	as it converts electrical energy into
	thermal energy. The to	asters maximum power ratin	g is	
	(1) 660 W	(2) 760W	(3) 110 W	(4) 55 W
105.	Which resistor will be	physically larger in size ?		
	(1) 10 ohm, 50 W	(2) 100 ohm, 10 W	(3) 1kohIn, 1 W	(4) 10 Mohm, 1/2 w.
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106.	The electronic configura	ation (2, 8, 5) belongs to		
	(1) Mg	(2) Al	(3) Si	(4) P
107.	The chemical formula for	or carbonic acid is		
	(1) H <sub>2</sub> SO	(2) $H_2 CO_3$	(3) HNO,	(4) HCl
108.		ators is known as	5	
1001			(3) universal	(4) olfactory
109	metal is genera		(3) universui	(1) ondetory
107.		(2) Gold	(3) Iron	(4) Zinc
110	· · · · · · · · · · · · · · · · · · ·	lar formula $C_2 H_6$ has		
110.	(1) 6	(2) 7	(3) 8	(4) 9
111.	The largest gland in Hu			
	(1) Pancreas		(3) Liver	(4) Salivary gland
112.	is brain of c			
	(1) Lysosome		(3) Golgi bodies	(4) Nucleus
113.	-	hibians of plant kingdom	(2) E	(1) Disside sheets
11/	(1) Algae Find the CORRECT ma		(3) Fungi	(4) Pteridophyte
114.		- dead tissue	(2) Sclerenchyma - p	ower of cell division
	(3) Xylem - Conduction	of water	(4) Phloem - Respon	sible for secondary growth
115.		substances into simple sub	stances is called	
	(1) digestion			
116.		business concessions from		
117	(1) Shah			(4) Jahangir
11/.		was regarded as a da		
110		(2) Africa		(4) Eurape
118.	-	unded in Oct 1949 under th	-	
	-	$(2) \operatorname{Sun} - \operatorname{yet} - \operatorname{sen}  (3) \operatorname{C}$	-	(4) Dr. B.R.Ambedkar
119.		ntitled "" is a man		
	(1) Das Kapital		(3) Young Turks	(4) Nazism
120.	The Judges of the Intern	national court of the league	of Nations were being	appointed by the
	(1) council	(2) Assembly	(3) Secretary	(4) Security Head.
121.	Area wise India is the	largest counfry in	the world.	
	(1) fifth	(2) Sixth	(3) Seventh	(4) fourth
122.	The forest soils are	in colour		
	(1) dark yellow	(2) dark brown	(3) dark red	(4) pink
123.	Rajasthan plain is know	n asdesert.		
	(1) sahara	(2) Kalahari	(3) Gobi	(4) Great Indian
124.		in is the leading producer o		
	(1) bajara	(2) Wheat	(3) Oilseeds	(4) sugarcane
125	Varanasi is famous for _	• •		(1) sugarcane
1 <i>4</i> J.	(1) Silk sarees	(2) Cotton sarees	(3) Woollen Clothes	(4) leather production
126		s haveright to vote	(5) Woolien Clothes	() Marine production
120.			(3) limited	(4) indirect
. —	(1) Unequal	(2) equal		. ,
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127.	The party (or parties) w	vinning the majority of seats	in the election is known a	sparty.
	(1) Ruling	(2) opposition	(3) Independent	(4) Free
128.	India has adopted	system of government		
	(1) Unitary	(2) federal	(3) presidential	(4) limited monarchy
129.	is a prima	ry political activity.		
	(1) critizing the government	nent	(2) deciding policies	
	(3) voting		(4) attending meetings	
130.	To maintain and captur	eis the main aim o	of the political parties.	
	(1) Publicity	(2) Minority	(3) Power	(4) Information
131.	The principal copper de	eposits of India lie in which o	of the following places?	
	1) Hazaribag and Singb	hum of Bihar 2	2) Khetri and Daribo areas	s of Rajasthan
	3) Anantapur in Andhra	a Pradesh	4) Siwaliks in Uttar Pra	desh and in Karnataka
132.	Which of the following	are true regarding Jhum cult	ivation in India?	
	I) It is largely practice	d in Assam		
	II) It is referred to as 's	lash and burn' technique		
	III) In it, the fertility is e	exhausted in a few years		
	1) I, II and III	2) II and III	3) I and II	4) I and III
133.	The Yarlung Zangbo riv	ver, in India, is known as		
	1) Ganga	2) Indus	3) Brahmaputra 4)	) Mahanadi
134.	5	the river		
	1) Chenab	2) Jhelum	3) Ravi	4) Sutlej
135.	-	untry that produces gold is a	llso rich in iron is	
	1) North-eastern zone	2) North-western zone	3) Southern zone	4) None of the above
136.	1	a is the		
	1) 13th Lok Sabha	2) 14th Lok Sabha	-,	4) 16th Lok Sabha
137.		a can make use of the residua	ary powers	
	1) at all times			
	2) only during national of			
		gency as well as constitution	hal emergency as well in a	state
	4) None of the above			
138.		abha hold office for a term of		
	1) 4 years	2) 5 years	3) 6 years	4) 3 years
139.		es control over council of mi ngly listed as a method of co		, in several ways. Which one of the
	1) Questions			
	2) Supplementary ques	tions		
	3) Adjournment motion	ns		
	4) None of the above			
140.	The number of writs th	at can be prayed for and issu	ied by the Supreme Court	t and/or a High Court is
	1) 3	2) 4	3) 5	4) 6
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141.	. Air passengers may be allowed to make mobile calls and surf the internet during flights in the Indian airs from;			
	1) January 2019	2) Febraury 2019	3) March 2019	4) April 2019
142.	2. How many projects are sanctioned under National Mission for Clean Ganga over 24 thousand crore			
	1) 172	2) 188	3) 254	4) 263
143.	The "rakhi with khaki" initiative of which police station holds the Guinness World Records?			
	1) Dhupguri Police	2) Gudamba Police	3) Bilaspur Police	4) Panjagutta Police
144.	4. Which ministry released a book title "A Handbook for Students on Cyber Safety to aware teenager Crimes and Threats"?			
	1) Ministry of External Affairs		2) Ministry of Home Affairs	
	3) Ministry of Corporate Affairs		4) Ministry of Human Resource Development	
145.	45. Which government launched the Common Mobility Card recently to travel aboard both metrun buses?			
	1) Maharashtra	2) Haryana	3) Delhi	4) Hyderabad
146.	. With which ministry Madame Tussauds Wax Museum signs an MoU recently?			
	1) Ministry of Human Resource Development		2) Ministry of Home Affairs	
	3) Ministry of Defence		4) Ministry Of Railways	
147.	Which Ministry announced that 15 helipads will be implemented across the country to improve tourism prospects?			
	1) Ministry of Defence		2) Ministry of Home Affairs	
	3) Ministry of Civil Aviation		4) Ministry of Finance	
148.	. Which word is declared as the Cambridge Dictionary's Word of the Year 2018?			
	1) Nomophobia	2) Populism	3) Parmesan	4) Showboating
149.	Which University has been ranked A+ in the National Assessment and Accreditation Council (NAAC) review 2018?			
	1) Jawaharlal Nehru University		2) University of Mumbai	
	3) Banaras Hindu University		4) Delhi University	
150.	The first ever India Indonesia Business forum (IIBF) was held at			
	1) Chennai	2) Port Blair	3) Cochin	4) Visakhapatnam
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