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



ENTRANCE EXAMINATION-VII

DEFENCE CAREER ACADEMY, AURANGABAD.

SET

As an ISO 9001: 2008 - Certified

1

ENT: 2023 Sr. I

TIME : 2.00 Hrs. MAXIMUM MARKS : 100

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

- 1. Do not carry any book, paper or any other material with you inside the Examination Hall.
- 2. Carry only writing material with you in the Examination Hall.
- 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 100 items (Questions). Each item comprises four responses (Answers). 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.

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

- 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 A NEW ONE.
- 9. Ask for a separate paper for rough work.
- 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 100 counts, each subdivided in four { (a) (b) (c) (d)} 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 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



1.	1 km = ? mm			
1.	a) 1,00,000	b) 1,000	c) 10,00,000	d) 1000
2.	49 to the nearest tens		c) 10,00,000	<i>a)</i> 1000
2.	a) 50	b) 40	c) 45	d) 55
3.	In Roman numerals L	,	<i>c)</i> 13	4, 55
3.	a) 100	b) 50	c) 70	d) 90.
4.		en the greatest number of	,	,
	a) 1	b) 10	c) 100	d) 11
5.	· ·	ges per day. How many p	,	,
٥.	a) 900	b) 800	c) 700	d) 750
6.	,	pass through one given po	,	4, 7,50
٠.	a) 1	b) 2	c) 4	d) Countless
7.	,	ing statements is false?		
		circle will necessarily interse	ct. b) The centre of a cin	cle is always in its interior.
	c) Every diameter of a c		d) Every chord of a ci	•
8.	· ·	djacent angles are there i		
	a) 1	b) 2	c) 3	d) 4
9.	,	pposite angles are there i	,	-,
	a) 1	b) 2	c) 3	d) 4
10.	,	s are there in the follow-i	· ·	~,
		a) 4	8 8	
		b) 5		
		c) 2		
		d) 3		
11.	Two tens and 2-tenths	· ·		
	a) 20.2	b) 2.02	c) 202	d) None of these
12.	10mm =		,	,
	a) 1.0 cm	b) 0.1cm	c) 0.01 cm	d) 0.001 cm
13.	Between which two v	whole numbers on the nu	mber line does the nun	nber 0.5 lie?
	a) 0 and 1	b) 1 and 2	c) 2 and 3	d) - 1 and 0
14.	2/10 + 3/100 + 4/100	0 =		
	a) 0.234	b) 2.34	c) 23.4	d) 234
15.	1 kg 500 g =			
	a) 1.5 kg	b) 1.05 kg	c) 1.005 kg	d) 1.0005 kg
16.	Which of the following	ng can be drawn on a pie	ce of paper?	
	a) A line	b) A line segment	c) A ray	d) A plane
17.	At 7 a.m. the angle between the Sun's ray and the ground at a point is 43°. What would be the angle			
	at 10 a.m.?			
	a) 40°	b) 90°	c) Between 43° and 9	00^{0} d) Greater than 90^{0}
18.	Identify the uses of a ruler.			
	a) To draw a line segment of a given length		b) To draw a copy of a given segment	
	c) To draw a diameter of a circle		d) All the above	

19.	X and Y are two distinct a) 0	ct points in a plane. How to b) 1	many lines can be drawn c) Only 2	passing through both X and Y? d) Infinitely many	
20.	Lines a, b, p, q, m, n a	and x have a point P con	•	•	
		e b) Point of intersection	c) Common point	d) Distinct point	
21.	Perimeter of an equil	lateral triangle			
	a) $2 \times \text{Length of a side}$	b) $3 \times \text{Length of a side}$	c) 4 × Length of a side	d) 6 x Length of a side	
22.	Apala went to a park covered by her is	20 m long and 10 m w	ide. She took one com	plete round of it. The distance	
	a) 30 m	b) 60 m	c) 20 m	d) 10 m	
23.	Two sides of a triangle	are 5 cm and 4 cm. The p	erimeter of the triangle is	12 cm. The third side has length	
	a) 1 cm	b) 2 cm	c) 3 cm	d) 6 cm	
24.	The area of a rectange	ular sheet of paper is 20	cm ² . Its length is 5 cm.	Find its width.	
	a) 1 cm	b) 2 cm	c) 3 cm	d) 4 cm	
25.	The perimeter of a re-	gular hexagon is 12 m. I	Find the length of the si	de.	
	a) 2m	b) 3m	c) 4m	d) 6m	
26.	There are 30 boys and	d 20 girls in a class. The	ratio of the number of	girls to the number of boys is	
	a) 2:3	b) 3:2	c) 2:5	d) 3:5	
27.	The ratio 40 cm to 1	m is			
	a) 2:5	b) 3:5	c) 4:5	d) 5:2	
28.	Which of the following	ng ratios is equivalent to	2:3?		
	a) 4:8	b) 4:9	c) 6:9	d) 6:12.	
29.	The ratio of 25 minut	tes to 1 hour is			
	a) 7:5	b) 5:12	c) 12:5	d) 5:7	
30.	The present age of Hage of Manish to the	_	sh is 30 years. The ratio of the		
	a) 2:5	b) 5:2	c) 2:3	d) 3:2	
31. T	The preceding number	of the number 1 is			
	a) 1	b) -1	c) 2	d) 0	
32.	Which of the following	ng is true?			
	a) $0 < -8$	b) 0 > -8	c) 4 < -4	d) 0 > 6	
33.	Which of the followi	ng statements is true?			
	a) Every positive integer is larger than every negative integer.				
	b) Zero is greater than every positive integer.				
	c) Zero is smaller than every negative integer.				
	d) Farther a number from zero to the right, smaller is its value.				
34.	Which of the following statements, is false?				
	a) Zero is neither a negative integer nor a positive integer.				
	b) Zero is less than every positive integer.				
	c) Zero is larger than every negative integer.				
	d) Farther a number from zero on the left, larger is its value.				
35.	2 - (-1) - 2 - (-3) =				
	a) 0	b) 3	c) 2	d) 4	
36.	The difference between	en the predecessor of a	number and the number	r it self is	
	a) 1	b) -1	c) 2	d) - 2	

37.	To find the success	sor of a number, we have	to add the number	itself.		
	a) 4	b) 3	c) 2	d) 1		
38.	Which of the follo	wing statement is true?				
	a) 1 is the smallest	natural number	b) 50 is the pre	edecessor of 49		
	c) 1 is the smallest	whole number	d) 599 is the st	uccessor of 600		
39.	How many natural numbers are there between 1 and 10?					
	a) 6	b) 7	c) 8	d) 9		
40.	The side of a square	re is 1. Its perimeter is				
	a) 31	b) 21	c) 4l	d) 6l		
41.	$1 \div 0 =$					
	a) 1	b) 0	c) 2	d) Not defined		
42.	The radius of a cir	cle is r. Its diameter is				
	a) 2r	b) 4r	c) 3r	d) 6r		
43.	The expression for	'1 subtracted from -p'	is			
	a) -P-1	b) p – 1	c) 1 – p	d) 1 + p		
44.	The expression for	added' is '2 times x to	which 1 is	· · · · · · · · · · · · · · · · · · ·		
	a) $2x + 1$	b) $x + 2$	c) $1 - 2x$	d) $2x - 1$		
45.	If Meenu's present	If Meenu's present age is x years, what was her age in years, 10 years back?				
	a) $x - 10$	b) 10 – x	c) - x - 10	d) 10x		
* Re	<i>'</i>	· · · · · · · · · · · · · · · · · · ·	,	nd answer the questions that follow		
	monsoons is the diff of the Sun with refer Thus the low pressu trade winds conver Zone or ITCZ. This the upper layers of moisture resulting in the southern part of	ference between annual to erence to the Earth oscilla- are region created by solar ge in this low pressure zo s low pressure region se f the atmosphere, where in precipitation. The rain of North America coincid	emperature trends over the attended and the tropic the heating also change one, which is also known as continuous rise of the cooling means y seasons of East As le with the shift of I	ts of the world. The primary cause of the reland and sea. The apparent position of Cancer to the Tropic of Capricorn is latitude. The northeast and southeast own as the Intertropical Convergence of moist wind from the sea surface to the air can no longer hold so much sia, sub-Saharan Africa, Australia and TCZ towards these regions.		
46.	Now answer the following questions by choosing correct options:					
	a) A type of sea wa	ve	*	eversal in wind direction		
	c) very hot wind		d) veiy cold win	nd		
47.	What is the full form of ITCZ?					
	a) Intertrance Conv	vergence Zone	, <u>*</u>	Convergence Zone		
	c) Intertropical Ca	pricorn Zone	d) Intertropical	Conveyance Zone		
48.	The major cause of monsoon is the					
	a) difference between annual temperature trends over land and sea					
	b) difference between day and night temperature					
	c) moisture in the atmosphere					
	d) None of these					
49.	Low pressure region	on is created by				
	a) solar heating	b) lunar cooling	c) moist wind	d) dry wind		

* K	ead the poem caref	ully and answer the	e following questions.		
	An oak tree and a ro	osebush grew,			
	Young and green to	gether,			
	Talking the talk of g	growing things			
	Wind and water and	weather.			
	And while the rose	bush sweetly bloomed	d		
	The oak tree grew s	o high			
	That now it spoke of	of newer things—			
	Eagles, mountain pe	eaks and sky.			
	"I guess you think y	ou're pretty great!"			
	The rose was heard	to cry,			
	Screaming as loud	as it possibly could			
	To the treetop in the	e sky.			
	"And that you've gr	own so tall.			
	Now that you've gre	own so tall."			
		at I've grown" said th	ne tree.		
	"It's just that you've				
50.	How did the oak an	d the rosebush grow?			
	a) young and green	_	b) became yellow a	and dry	
	c) did not grow tall		d) died	•	
51.	What did they talk a	about?	,		
	a) wind	b) water	c) weather	d) all of them	
* D	o as directed.			,	
52.	I bought a beautiful	dress at the mall.			
	a) preposition	b) adjective	c) noun		
53.	What did she ask yo	ou to do?			
	a) conjunction	b) prepositio	c) pronoun		
* C	hoose the correct o	ption given below e	ach question.		
54.					
	a) Vicereine	b) Duchess	c) Princess	d) Marchioness	
55.	What is the feminir	ne of ram?			
	a) Ewe	b) Limb	c) Lob	d) Lumber	
* Fi	ll in the blanks witl	h the plural form of	a word given in the bra	acket:	
56.					
	a) knife	b) knifess	c) knives	d) knifes	
57.	From Jalalabad dov	vnwards the river is n	avigable by (boat)	
	a) boates	b) boats	c) boot	d) boated	
* D	o as directed.				
58.	Find the correctly s	spelt word			
	a) Servent	b) Sarvent	c) Servant	d) Sarvant	
59.	Spot the correct sp	elling			
		•	c) Committee	d) Committey	

* Do	as directed.					
60.	Find the synonym of	the following word: Vig	gorously			
	a) apathetic	b) steady	c) energetic	d) dull		
61.	What is the synonym	of : worried				
	a) anxious	b) carefree	c) calm	d) unconcerned		
* Cl	hoose the correct opt	tion given below each o	uestion.			
62.	Which word comes f	irst in ABC order?				
	a) bat	b) ball	c) baseball	d) basketball		
63.	Which of the followi	Which of the following words are in alphabetical order?				
	a) can, cast, cap	b) dog, dinner, dusty	c) people, rusty, sour	d) tank, tape, taste		
64	Which word comes la	ast in ABC order?				
	a) bat	b) ball	c) baseball	d) basketball		
65.	Arrange these words	in alphabetical order and	tick the one that come	s last		
	1. Abandon 2. Actuar	te 3. Accumulate 4. Acqu	uit 5. Achieve			
	a) Actuate	b) Accumulate	c) Acquit	d) Achieve		
66.	2, 6, 14, 26,, 62					
	a) 52	b) 54	c) 44	d) 42		
67.	1, 8, 27, 64 ?					
	a) 125	b) 100	c) 216	d) 343		
68.	Find the odd word from	om the given alternatives				
	a) Second	b) Metre	c) Work	d) Kilogram		
69.	Find the odd one out	Find the odd one out				
	a)	b)	c)	d)		
70.	A is to the South-East of C, B is to the East of C and North-East of A. If D is to the North of A and					
		which direction of C is D				
	a) North-Wesr	b) South-West	c) North-East	d) South-East		
71.	Plant eating animal is					
	a) herbivores	b) carnivores	c) omnivores	d) all of these		
72.	Which of the followi	•				
	a) Human beings		c) Cow	d) Buffalo		
73.	Deficiency of iodine		\ 1	15		
- 4	a) goitre	b) rickets	c) balanced diet	d) scurvy		
74.	Starch can be tested l	· -	11.	N. P. I.P. A. A. C.		
7.5	a) iodine solution	b) caustic soda	c) copper sulphate	d) Fehling's solution		
75.	Jute fibres are obtain) C : (C: (1)	D C.1		
76		tsb) seeds of jute plants	c) fruit of jute plants	d) none of these		
76.	Which of the followi		a) Dazza :	J) All of doco		
77	a) Silk	b) Nylon	c) Rayon	d) All of these		
77.		b) cir		d) water		
70	a) charcoal	b) air	c) glass	d) water		
78.	Mixtures need to be separated because					
	a) to remove undesirable substances		b) to get desirable substances d) all of the above			
	c) to obtain highly pure substances		u) an or me above			

5

79.	The process of con-	version of water into vap	our is called		
	a) condensation	b) evaporation	c) sedimentation	d) decantation	
80.	Which of these is a	physical change?			
	a) Burning of paper		b) Melting of ice		
		t on iron nail	d) Formation of cur	d from milk	
81.		PSLV C54 rocket from w			
	a) Nagpur		c) Sriharikota	d) Jodhpur	
82.		day is celebrated on whic	,	, 1	
		b) November 22		d) November 19	
83.				h February 2023) will be held in	
	which Indian State	, ,	,	,	
	a) Maharastra	b) Madhya Pradesh	c) Uttar Pradesh	d) Karnataka	
84.	Anju Bobby George	e is associated with which	h sport		
	a) Athletics	b) Cricket	c) Boxing	d) Kabaddi	
85.	Who won the India	's first Olympic Bronze n	nedal in Boxing		
	a) Vijender Singh	b) Akhil Kumar	c) Dingko Singh	d) Mary Kom	
86.	Who was the first S	peaker of Lok Sabha		•	
	a) G.V. Mavlankar	b) Venkaiyah Naidu	c) Meira Kumar	d) Pratibha Patil	
87.	First Auditor Gener	ral of India was			
	a) V. Narhari Rao	b) Phu Dorjee	c) R.K. Shanmukha	am Chetty d) Mihir Sen	
88.	Which city is famo	us as the centre for world	d's beauty contests		
	a) Paris	b) Milan	c) Miami	d) Chicago	
89.	is the famou	s city of England for its	quality education		
	a) Oxford	b) London	c) Birmingham	d) Wimbledon	
90.	It is in Washington. It houses many government offices of the War department of the USA				
	a) Pentagon	b) Twin Towers	c) Empire State Bui	ilding d) White House	
91.	On which planet the	e life exists?			
	a) Earth	b) Moon	c) Jupiter	d) None	
92.	Which in the neares	st star to the earth?	_		
	a) Mercury	b) Moon	c) Venus	d) Sun	
93.	Which among the f	following is the slowest n	neans of transport?		
	a) cycle	b) bullock cart	c) scooter	d) rickshaw	
94.	Bus is a means of	transport.			
	a) water	b) land	c) air	d) none	
95.	Which is the cheapest modes of transport?				
	a) airways	b) waterways	c) roadways	d) railways	
96.	Which mode of trai	nsport is most suitable to	reach an island?		
	a) ship	b) train	c) car	d) bus	
97.	We can communica	ate with a large number of	of people through	.	
	a) newspaper	b) radio	c) Television	d) All of above	
98.	The point where en	tire weight of an object	acts, is called	.	
	a) centre of gravity	b) edge	c) central point	d) can anywhere in body	
99.	In the Mughal adm	inistration, military recuri	_	-	
	a) Kotwal	b) Bakhshi	c) Wazir	d) Diwan	
100.	Babur came to Indi	a originally from			
	a) Khina	b) Ferghana	c) Khorasan	d) Seistan	