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



ENTRANCE EXAMINATION - VIIITH

DEFENCE CAREER ACADEMY, **AURANGABAD.**

As an ISO 9001: 2008 - Certified

ENT: 2013 SR. NO.

TIME ALLOWED: 2.00 HOURS **TOTAL MARKS: 100**

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

- Read instructions given below carefully for solving this question paper.
- This question paper has 90 questions. Each question carries 1 mark. 1.
- 2. **Last** two descriptive questions are **compulsory**. They carry 5 marks each.
- 3. There is a separate answer-sheet to write the answers. Each question has four options. Options are ABCD out of the four any one of the options is the correct answer. Shade the correct answer in the answer-sheet.

Example: If the correct answer for Q. NO 6. is B, then record your answer as follows:

	0			0
Question No. 6	Α	В	C	D

Answer recorded in any other from will not be considered. Such answers will be 4. marked 'zero'.

B C D **Example:**

- Answer should be written using a pencil only. Blue or black ball pen or ink-pen will 5. not be accessed.
- Answers once marked cannot be changed or rewritten. 6.
- Any kind of cancellation or answers recorded marked in more than one circle will not 7. be considered.
- 8. The exam has limited time, in case you are not able to solve a question, kindly solve the next question. If time permits you can try to solve the unsolved questions.
- Essay must be written at the back portion of the Answer paper. 9.
- Result of this examination will be displayed on the Notice Board. 10.
- 11. Do not write or mark anything on the question paper.

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Q.1 to 3: Read the following passage carefully and answer the questions given at the end of it by choosing correct alternative answer.

PASSAGE

Without causing any pollution in the form of suffocating fumes and earsplitting explosions, the bicycle converts energy into motion and, that too, more efficientlyly than any other machine. For the first time since the apperance of motor cars, the bicycle is seen today as a more attractive means of transport. Improved technology, combined with heightened interest in the environment, the outdoors and physical fitness, have transformed the image of bicycling in Europe and America into a fashionable and healthy activity. Cycling is a form of sport that enables people to rediscover nature. The ATB (all-terrain-bike) is used in riding to the top of mountains and in cross-country races. Riding an ATB is a great way of keeping fit, and it is quieter than walking. The cyclist hears no sound of the tyres on the path and is free to watch the flora and fauna while having a joyride with friends.

- 1. The image of the bicycle has changes mainly because of
 - a) improved technology and fashion
- b) interest in environment and physical fitness
- c) physical fitness and fashion
- d) its noiselessness & smoke free operation
- 2. The bicycle is a machine which
 - a) Converts physical energy into motion easily
 - b) require as much energy as a motor car.
 - c) is not as good as a motor car for sight seeing
 - d) is not in fashion these days.
- 3. Riding on ATB is queter than waling because
 - a) its tyres produce no sound while moving along the path
 - b) its tyres do not touch the ground
 - c) it has a very slow speed
 - d) walking shoes are noisy

Q.4. to 6: Read the following poem carefully and answer the questions choosing the correct option.

If I held a bird in hand

Soft as ever could be

I'd listen to her racing heart

And set her forever free.

No joy can ever be as great

Than the freedom of her song

No matter she may never return

And take her song along.

Still I love to hold few firds

And keep on setting them free

Or feed them if they choose to stay

And share their joys with me.

- 4. What is important?
 - a) Love
- b) Respect
- c) Duty.

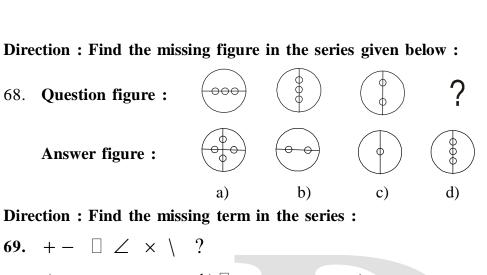
d) Freedom.

5.	No joy can be as great				
	a) ever	b) never	c) so ever	d) great	
6.	Write the rhyming wor	rd for 'be'			
	a) free	b) me	c) song	d) stay	
Inst	ruction : Fill in the b	lanks with suitable a	lternative.		
7.	You must Control You	r <u>anger</u>			
	a) Common Noun	b) abstract Noun	c) Proper Noun	d) Collection Noun	
8.	I under took a Critical	work			
	a) Verb	b) adjective	c) adverb	d) noun	
9.	She decided to visit K	ashmir.			
	a) noun	b) adjective	c) adverb	d) pronoun	
10.	Don't eat fast.				
	a) adverb	b) verb	c) adjective	d) noun	
11.	Yuvraj is good	singing.			
	a) for	b) at	c) to	d) with	
12.	Shankar looked	Suman as go	oddess.		
	a) after	b) upon	c) about	d) at	
13.	Ramchandra	Now.			
	a) was working	b) working	c) is working	d) worked	
14.	Please	there.			
	a) go	b) went	c) is going	d) gone	
Inst	ruction: Find the wo	ord with correct spell	lings.		
15.	a) Marriage	b) Mayrage	c) Merrage	d) Myrage	
16.	a) Attand	b) Attend	c) Atend	d) Aatend	
Inst	ruction: Give the Syn	onyms of:			
17.	He has insidiously wormed his way into her affetions.				
	a) in a polite manner	b) in a secret manner	c) in ugly way	d) in a forceful manner	
18.	The inexorable demands of his workers brought the company to a closure.				
	a) unreasonable	b) relentless	c) monetary	d) violent	
19.	Sporadic rise in this temperature has caused us much worry.				
	a) Frequent	b) Irksome	c) Irregular	d) Scattered	
20.	The <i>benevolence</i> of the	ne God of Rain has see	en a very successful mons	soon this year too.	
	a) vision	b) morbidity	c) kindness	d) ill-will	
Inst	ruction: Give the Ant	conyms of:			
21.	I think would be a qui	ixotic project for me.			
	a) wasteful	b) profitable	c) fantastic	d) practical	
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22.	In the interest of one's own reputation one should avoid ostenation while entertaining friends.				
	a) innocence	b) purity	c) simplicity	d) miserliness	
23.	Everyone wanted to the <i>harbinger</i> of the good news to the king.				
	a) precursor	b) tender	c) opponent	d) follower	
24.	Their team bore delin	quent participants.			
	a) reverent	b) uncivil	c) quarrelsome	d) law abiding	
Inst	ruction: Find the erro	or in one of the part	of the sentence.		
25.	The peoples of the	is village have decide	to build a temple.		
	(a)	(b) (c)	(d)		
26.	My mother had be	en working in	an university.		
		(c)	(d)		
27.	Why were your un		me?		
	(a) (b)	` f	d)		
28.		e garden was playing			
•	$(1) \qquad (2)$		(4)		
29.	Neither she nor he				
20	$(1) \qquad (2)$	(3) (4)	tut ili a		
30.	One of the football		y injured.		
	(1) (2))		
31.	Find the value of : $\left(\frac{1}{8}\right)$	2			
	(8))			
	a) $\frac{1}{8}$	b) $\frac{2}{64}$	c) $\frac{1}{64}$	d) $\frac{64}{1}$	
	0	['] 64	´ 64	′ 1	
32.	Find : $2x^0 = \square$				
	a) 1	b) 4	c) 0	d) 2	
33.	Multiply: $5x^2 \times 3x$				
	a) 15x	b) $15x^2$	c) $15x^3$	d) 15	
34.	Simplify: $m^2 + 4mn - m^2 - mn$				
	a) 3mn	b) 5mn	c) $m^2 + 3mn$	d) 5mn	
35.	Solve : $4x - 7 = 21$	c, e	· · · · · · · · · · · · · · · · · · ·	<i>a,</i> e	
33.		h) 7	c) $x = -7$	d) 4	
2.5	a) $x = 4$	b) $x = 7$		d) $x = -4$	
36.	Find simple interest: Rs. 6000 at 9% for 2 years.				
	a) 90 Rs.	b) 102 Rs.	c) 100 Rs.	d) 1080 Rs.	
37.	Two angles are said to	be if their sur	n is 90°.		
	a) supplementary	b) Complementary	c) Right	d) Both (a) & (b)	
38.	Complete: $(a+b)^2 = a^2$	$a^2 + \dots + b^2$			
	a) 2ba	b) 2ab	c) 2abc	d) both (a) & (b)	
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39.	Simplify: $25^2a + 10a$	+ 1		
	a) $(5a + 1)(5a + 1)$		b) $(10a + 1) (5a + 1)$	
	c) $(5a + 1)$		d) None of these	
40.	, ,	ares of the angles in a li	,	
	a) 180°	b) 108°	c) 360°	d) 270°
41.	$(a^{m})^{n} = \dots$	·, - · ·	-,	<i>5,</i> 1. <i>5</i>
	a) a^{m+n}	b) a ^{m-n}	c) a ^m	d) a ^{mn}
42.	Natural numbers = {	}	,	,
		b) { 3, -2 0, 1, 2	2	
	c) both (a) & (b)			
43.	Prouct of two number	rs =		
	a) $\frac{G.C.D}{L.C.M}$	b) G.C.D. × L.C.M.	c) G.C.D L.C.M.	d) G.C.D + L.C.M.
44.	When a number is div	visible by 2 & 3, then the	nat nu mber is also divisib	ole by
	a) Divisibility by 6	b) Divisibility by 9	c) Divisibility by 11	d) both (a) & (b)
45.	The angle inscribed in	a semi circle is a	0	
	a) 180°	b) 360°	c) 60°	d) 90°
46.	Total surface are of a	cube =		
	a) 6 (side) ²	b) 2(side)	c) 4 (side)	d) (side) ²
47.	All radii of the same	circle are		
	a) unequal	b) equal	c) both (a) & (b)	d) can't ray
48.	The longest chord of	a circle is the of	f the circle.	
	a) chord	b) radius	c) diameter	d) none of above
49.		are sq.cm & sq.m.		
		b) square	c) volume	d) Area
50.		f 6ab ² , 18a ² b is		
	a) ab	b) 6ab ²	c) 6a	d) 6ab
51.	•	s 6cm ∴ Area of the squ		
	a) 12cm ²	b) 36cm ²	c) 24cm ²	d) 36cm ²
52.	$m \angle A = 65^{\circ}, m \angle b =$	65° , $\therefore \angle A \dots \angle B$		
	a) 7	b) ∠	c) =	d) ≠
53.	Simplify: $\frac{14}{9} + \frac{4}{9} =$			
	a) $\frac{18}{9}$	b) $\frac{18}{81}$	c) 2	d) $\frac{18}{18}$
54.	Express in the equation	on form:		
	twice a number increa	ased by2 gives 14		
	a) $2x = 2 + 14$	b) $3x + 14 = 2$	c) $2x + 14 = 2$	d) $2x + 2 = 14$

55.	A number divided by 6 gives 4				
33.	-			4	
	a) $\frac{6}{x} = 4$	b) $\frac{4}{6} = x$	c) $\frac{x}{6} = 4$	d) $\frac{4}{x} = 6$	
	4 16		-		
56.	Simplify: $\frac{4}{7} + \frac{16}{14}$				
	24	20	17		
	a) $\frac{24}{14}$	b) $\frac{20}{21}$	c) $\frac{17}{23}$	d) None of these	
57.	Sum of angles of a qu	adrilateral is			
	a) 180°	b) 90°	c) 360°	d) 170°	
58.	Multiply: $(x - 2)(x - 2)$	+ 2)			
	a) $x^2 - 4$	b) $x^2 + 4$	c) $x^2 - 2$	d) $x^2 - 1$	
59.	Factorise : 16xy ²				
	a) $2 \times 2 \times 2 \times 2 \times x \times$	$y \times y$	b) $4 \times 4 \times x \times y \times y$		
	c) $8 \times 2 \times x \times y^2$		d) $x \times y^2 \times 16$		
60.	Simplify: $\frac{16}{7} - \frac{10}{7}$				
00.	7 7				
	a) $\frac{6}{7}$	b) $\frac{7}{6}$	c) $\frac{16}{7}$	d) $\frac{10}{7}$	
	a) 7	6	7	7	
61.	. Read the following sentences and answer the questiion:				
	1. It rained cats and dogs yesterday. 2. I always enjoy a cat-nap after lunch.			nap after lunch.	
	3. Beware of the cat b	urgiar at night	4. Micky is the name of	f our cat.	
	a) B	b) D	c) C	d) A	
62.	,	,	c) C pove sequence are divisib	•	
62.	,	,	, and the second	•	
	3, 30, 33, 5, 10 How 1	many numbers in the ab	oove sequence are divisib	le by 3 ?	
	3, 30, 33, 5, 10 How a a) Five ction : ABCDE FGF	many numbers in the ab	c) Three T UVWXY	le by 3 ?	
Dire	3, 30, 33, 5, 10 How a a) Five ction : ABCDE FGF	many numbers in the abb. Four HIJ KLMNO PQRS	c) Three T UVWXY	le by 3 ?	
Dire	3, 30, 33, 5, 10 How a a) Five ction: ABCDE FGF Which is the letter adj	b) Four HIJ KLMNO PQRS (acent to J but not to L b) I	c) Three T UVWXY ?	le by 3 ? d) Two	
Dire 63.	3, 30, 33, 5, 10 How a a) Five ction: ABCDE FGH Which is the letter adj a) H	b) Four HIJ KLMNO PQRS (acent to J but not to L b) I	c) Three T UVWXY ?	le by 3 ? d) Two	
Dire 63.	3, 30, 33, 5, 10 How a a) Five ction: ABCDE FGF Which is the letter adj a) H Find the odd man out	b) Four HIJ KLMNO PQRS facent to J but not to L b) I b) Boxing	c) Three T UVWXY ? c) K c) Carrom	le by 3 ? d) Two	
Dire 63. 64. Dire	3, 30, 33, 5, 10 How in a) Five ction: ABCDE FGF Which is the letter adjust a) H Find the odd man out a) Table tennis	b) Four HIJ KLMNO PQRS facent to J but not to L b) I b) Boxing	c) Three T UVWXY ? c) K c) Carrom	le by 3 ? d) Two	
Dire 63.	3, 30, 33, 5, 10 How in a) Five ction: ABCDE FGF Which is the letter adjust a) H Find the odd man out a) Table tennis	b) Four HIJ KLMNO PQRS facent to J but not to L b) I b) Boxing	c) Three T UVWXY ? c) K c) Carrom	le by 3 ? d) Two	
Dire 63. 64. Dire	3, 30, 33, 5, 10 How is a) Five ction: ABCDE FGF Which is the letter adjuly a) H Find the odd man out a) Table tennis ction: Find the odd f	b) Four HIJ KLMNO PQRS facent to J but not to L b) I b) Boxing figure out of the given	c) Three T UVWXY ? c) K c) Carrom	le by 3 ? d) Two	
Dire 63. 64. Dire 65.	3, 30, 33, 5, 10 How is a) Five ction: ABCDE FGF Which is the letter adjuly a) H Find the odd man out a) Table tennis ction: Find the odd find t	many numbers in the all b) Four HIJ KLMNO PQRS (acent to J but not to L b) I : b) Boxing (igure out of the given c) d)	c) Three T UVWXY ? c) K c) Carrom n alternatives.	le by 3 ? d) Two	
Dire 63. 64. Dire 65.	3, 30, 33, 5, 10 How is a) Five ction: ABCDE FGF Which is the letter adjuly a) H Find the odd man out a) Table tennis ction: Find the odd for a b) ction: Find the odd is b)	many numbers in the all b) Four HIJ KLMNO PQRS (acent to J but not to L b) I b) Boxing (igure out of the given c) d) man out from the que	c) Three T UVWXY ? c) K c) Carrom n alternatives.	le by 3 ? d) Two d) M d) Cricket	
Dire 63. 64. Dire 65. Dire 66.	3, 30, 33, 5, 10 How is a) Five ction: ABCDE FGF Which is the letter adjuly a) H Find the odd man out a) Table tennis ction: Find the odd for the odd is a) b) ction: Find the odd is a) 8465	many numbers in the all b) Four HIJ KLMNO PQRS (acent to J but not to L b) I b) Boxing (igure out of the given c) d) man out from the que b) 7654	c) Three T UVWXY ? c) K c) Carrom n alternatives. estion given below: c) 3456	le by 3? d) Two d) M d) Cricket	
Dire 63. 64. Dire 65. Dire 66.	3, 30, 33, 5, 10 How is a) Five ction: ABCDE FGF Which is the letter adjuly a) H Find the odd man out a) Table tennis ction: Find the odd for a) b) ction: Find the odd is a) 8465 ction: Find out the n	many numbers in the all b) Four HIJ KLMNO PQRS (acent to J but not to L b) I b) Boxing (igure out of the given c) d) man out from the que b) 7654	c) Three T UVWXY ? c) K c) Carrom n alternatives. estion given below: c) 3456	le by 3 ? d) Two d) M d) Cricket	



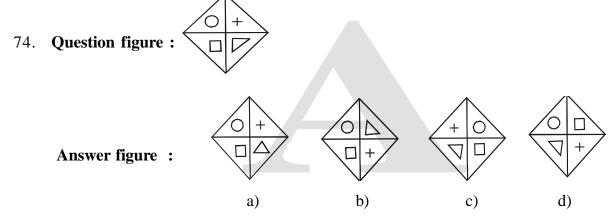
Direction: Find the missing term in the series:

b) [] a) \Diamond | | d)-+

Direction: Identify the wrong term in the given series:

- 70. 2, 5, 11, 17, 19 a) 19 b) 5 c) 2 d) 17
- Ramesh has Rs. 5 more than Sadu. Sadu has Rs. 3 more than Kavita and Rs. 7 more than Suresh. so who has the least amount from the given alternative?
- b) Sadu d) Suresh a) Ramesh 72. How many quadrilaterals are there in the given figure?
 - a) 6 b) 8 c) 7 d) 10
- **Question figure: 73.** Answer figure: a) b) c)

Direction: Find the mirror image of the question figures below:



Direction: Find the word in the place of question mark?

75. nose: ?:: ear: hear

a) stink

b) smell

c) sneeze

d) nose-bridle

76. bank: money:: post office:?

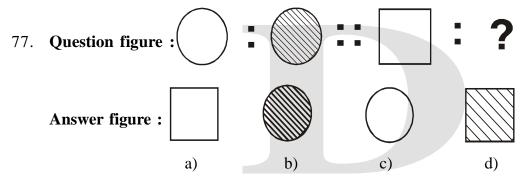
a) postbox

b) postman

c) letters

d) postmaster

Direction: In the following questions, the 1st two figures bear some relationship to each other. The third and fourth figures bear the same relationship. One of the terms is missing. Find the missing term from amongst the four alternatatives.



Direction: Study the pyramid given below and answer questions upon it:

78. 12, 4, 5: 18, 9, 8:: ?: 20, 13, 12

a) 16, 10 11

b) 12, 1, 2

c) 19, 13, 12

d) None

Direction: Out of the given group of figures find out an exact similar figure to the given question figure:

79. Question figure:



Answer figure:



b)



d)

Direction: In each question below, there is a problem. It can be seen from these problems, how do you think and react? There are four alternatives given below the question. Find out the correct or proper alternative.

The Selection Body Officers of an interview are sitting in such a way that R is to the left of P but to the right of T. q is sitting to the left of S but to the right of P. Who is sitting exactly in the middle of them?

a) P

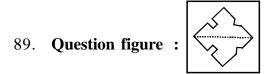
b) Q

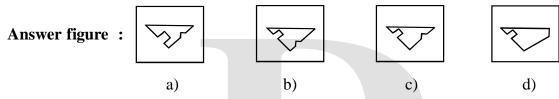
c) R

d)S

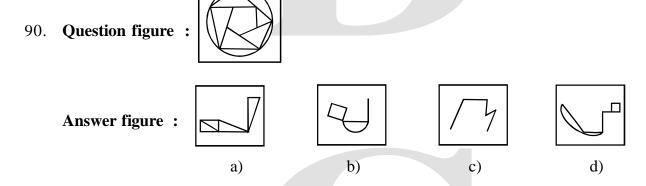
81.		e sitting circular fact sitting just left to R		g just left to T. P. is sitting between
	a) P	b) Q	c) S	d) T
82.	,	, -	,	ay will her third birthday fall?
	a) Thursday	b) Friday	c) Wednesday	d) Saturday
Dire	ction: Study the	· •	ow carefully and write the	e answers in the box.
83.	How many lines of	loes the adjoining f	igure have ?	
Direc	· =	b) 11 o. 84-85) In the adj ed upon this figure		d) 48 Elling from A to B is shown. Answer
84.	While reaching B	from A, how many	y times the South direction v	will be at the left ?
	a) 5 times	b) 3 times	c) 4 times	d) 7 times
85.	To which direction	· · · · · · · · · · · · · · · · · · ·	,	*
	a) South - east	b) South - we	est c) North-west	d) North-east
86.	Which is the digit	t common to all the	e three figures - the circle, t	he triangle and the rectangle?
	$\begin{bmatrix} 1 & & & & 3 \\ & & & & & 3 \\ 4 & & 5 & & 6 \end{bmatrix}$			
	a) 8	b) 7	c) 6	d) 5
87.			rope. In order to do this wo be to get 11 equal pieces?	ork faster, I folded the rope in half.
	a) 5	b) 6	c) 10	d) It is not possible
Direction: In question below, one question figure is given to the left side. Its one part is incomplete. Choose the correct alternative from the answer figures given to the right side, so that the incomplete picture may be completed without changing its direction.				
88.	Question figure	:		
	Answer figure			
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				1.1.0.

Direction: In the question figure, the dotted lines are shown along which the figure is folded and the shaded part are shown where the figure is cut. If the given question figure is unfolded, which of the answer figures will represent this unfolded figure?





Direction: One of the answer figures is hidden in the question figure. Find the correct alternative:



- * Descriptive question (Compulsory)
- I) Write an essay on any one of the following in 150 words. 5M
 - a) Health is wealth
 - b) Utility of Forests
 - c) My best friend
- II) Expansion of an idea in 150 words 5M

As you sow, so shall you reap.

* * *