

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



ENTRANCE EXAMINATION - IXTH
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.**

1. This question paper has 90 questions. Each question carries 1 mark.
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:

Question No. 6
 A B C D

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

Example :
 A B C D

5. Answer should be written using a pencil only. Blue or black ball pen or ink-pen will not be accepted.
6. Answers once marked cannot be changed or rewritten.
7. Any kind of cancellation or answers recorded marked in more than one circle will not 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.
9. Essay must be written at the back portion of the Answer paper.
10. Result of this examination will be displayed on the Notice Board.
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

The postmaster's salary was small. He had to cook his own meals, which he used to share with Ratan, an orphan girl of the village, who did odd jobs for him.

When in the evening, the postmaster would light his little lamp, and call out 'Ratan', Ratan would sit outside waiting for his call, and instead of coming in at once, would reply, 'Did you call me, Sir?'

'What are you doing ?' the postmaster would ask.

'I must go and light the kitchen fire,' she would reply.

And the postmaster would say : Oh, let the kitchen fire wait for a while; light me my pipe first.'

1. The postmaster had to cook his own meals because
 - a) he enjoyed cooking
 - b) he cultivated this habit from his childhood
 - c) his salary was small
 - d) there was no hotel nearby
2. Ratan was the name of –
 - a) the postmaster's daughter
 - b) the postmaster's neighbor
 - c) the postmaster's cousin
 - d) the orphan girl who lived with the postmaster
3. When the lamp was lit, in the evening the postmaster would call Ratan –
 - a) to help her cooking
 - b) to light his pipe
 - c) to fetch a pot of water
 - d) to gossip

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

One day each year. Who will be rashly bold
And flout this festival as void of worth.
An ancient mummery - to which man show
His slavish piety ? Let him, who knows
Of beings more devoted than the fair,
Of wishes purer than a sister's care,
And stronger powers than woman's love on earth.

4. Which Indian festival does the poem describe:
 - a) Diwali
 - b) Holi
 - c) Raksha Bandhan
 - d) Gudhi Padwa
5. What is the Rakhi described as ?
 - a) Mother's love
 - b) Sister's love
 - c) Father's love
 - d) Brother's love
6. Write the rhyming word for 'fair':
 - a) Dear
 - b) Pray
 - c) Care
 - d) hate

Instruction : Fill in the blanks with suitable alternative.

7. Write the correct word for bet'n
 - a) Bitten
 - b) Between
 - c) Betting
 - d) none of above
8. The herd of deer ran away.
 - a) Collective Noun
 - b) Abstract Noun
 - c) Common Noun
 - d) Proper Noun
9. She come in through the front door.
 - a) adjective
 - b) adverb
 - c) preposition
 - d) pronoun

10. He ran fast.
 a) Verb b) adverb c) adjective d) noun
11. Atharv is intelligent but he is little.
 a) noun b) pronoun c) verb d) adjective
12. The tiger sprang ----- the deer.
 a) upon b) after c) before d) from
13. She told me a story ----- Abhimanyu.
 a) by b) about c) with d) on

Instruction : Find the word with correct spellings.

14. a) Biology b) bialogy c) bielogy d) bylogi
15. a) Figics b) Physics c) Phijix d) Phygix

Instruction : Give the synonyms of :

16. The lassitude was caused by overwork.
 a) Laziness b) Boredom c) Weariness d) sickness
17. Lunatics generally have queer ideas.
 a) Strange b) clumsy c) intricate d) frivolous
18. Although he has become rich, he is still frugal.
 a) miserly b) careful l in spending
 c) generous with money d) discourteous
19. The court questioned the veracity of the petition made.
 a) right b) truthfulness c) argument d) basis
20. Savita was asked to prove her allegations in the court.
 a) credentials b) cases c) points d) charges

Instruction : Give the Antonyms of :

21. My old aunt, who is a spinster declared that all men are faithless.
 a) A divorced lady b) A married woman
 c) an unmarried woman d) a widow
22. The bank launched a deposit mobilisation drive in June.
 a) terminated b) cancelled c) withheld d) discontinued
23. He did not shed his hostility throughout his life.
 a) hospitality b) friendliness c) kindness d) fidelity
24. The management seemed very callous about the working conditions of the workers.
 a) liberal b) careful l c) sensitive d) responsible
25. In this matter, it is difficult to persuade him; he is resolute about it.
 a) unmindful b) careful c) indefinite d) vacillating

Instruction : Find the error in one of the part of the sentence.

26. There is a good British Library in the city (A)/ and any one interested in books (B)/ can avail of the facility. (C) / No error. (D)
27. Being the second Saturday of the month, (A)/ he got up late, and spent the whole day at home, (B) / doing his share of the household chores (C)/ No error (D)
28. The flicker of light from the gas lamps(A) / indicated that the night (B) / was barely passed. (C) / No error (D).
29. As economic restructuring in Central and Eastern Europe progresses, (A) / an estimated 15 million people may be out of work (B) / by the end of the year. (C) / No error (D).
30. Such of those who have not paid the fees. (A)/The circular says, (B) / will not be permitted to attend classes (C) / No error (D)
31. The square root of 2025
a) 65 b) 35 c) 55 d) 45
32. Find the length of the diagonal of a square with side 8 cm?
a) $\sqrt{125}$ b) $\sqrt{128}$ c) $\sqrt{130}$ d) $\sqrt{135}$
33. $3.58\bar{3}$ this number is
a) Terminating b) non-terminating c) recurring d) both (b) & (c)
34. Every number in the non-terminating recurring decimal form is a rational number.
a) right b) wrong c) can not say d) both (a) & (b)
35. A quadrilateral with opposite sides parallel is called
a) parallelogram b) rhombus c) rectangle d) square
36. The perpendicular drawn from the centre to a chord of the circle bisects the chord.
a) wrong b) right c) can't say d) both (b) & (c)
37. The side of a square is 25cm. calculate its area.
a) 25cm^2 b) 625cm^2 c) 225cm^2 d) 700cm^2
38. The area of a parallelogram is 72 sq cm.
a) 12 cm b) 10 cm c) 9 cm d) 14 cm
39. Area of right angle triangle =
- a) $\frac{1}{2} \times b \times h$ b) $\frac{1}{2} \times 2b \times h$ c) $b \times h$ d) $2 \times bh$
40. The sides of a triangle are 17 cm, 25 cm & 26 cm resp. what it's area ?
a) 204 sq.cm b) 200 sq.cm c) 250 sq. cm d) 300 sq. cm
41. Area of the circle =
- a) $2 \pi r^2$ b) πr c) $2 \pi r$ d) πr^2
42. A circle has a diameter of 7cm. find its circumference.
a) 20 cm b) 19 cm c) 21 cm d) 22 cm
43. Numerical information collected for a specific purpose is called
- a) raw data b) score c) frequency d) both (a) & (b)

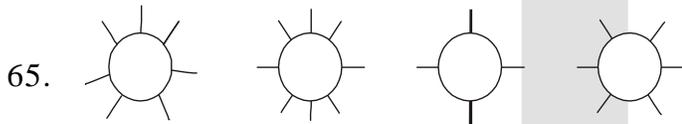
44. Multiply : $(2q + 5)(2q - 3)$
 a) $4q^2 - 4q + 15$ b) $4q^2 + 4q + 15$ c) $4q^2 + 4q - 15$ d) none
45. $(a+b+c)^2$
 a) $a^2 + b^2 + c^2 + 3ab + 3bc + 3ca$ b) $a^3 + b^3 + c^3 + 3ab - 3bc - 3ca$
 c) $a^2 + b^2 + c^2 - 2ab - 2bc + 2ac$ d) $a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$
46. $52^3 = \dots\dots\dots$
 a) 1, 41, 68 b) 1,40,608 c) 1,40,608 d) none
47. Solve : $3x + 2 = 8$
 a) $x = 3$ b) $x = 4$ c) $x = -2$ d) $x = 2$
48. Solve : $\frac{5x-7}{3x} = 2$
 a) $x = 7$ b) $x = -7$ c) $x = 8$ d) $x = -8$
49. $5^3 = ?$
 a) 225 b) 25 c) 15 d) 125
50. $\sqrt[3]{-8} = ?$
 a) 24 b) -4 c) 2 d) -2
51. The cube of a positive number is -
 a) can't say b) positive c) negative d) both (a) & (c)
52. n^{th} root of a number is show by the index
 a) n b) $\frac{1}{n}$ c) $\frac{1}{n^2}$ d) n^2
53. The measure of a semicircular arc is
 a) 80° b) 360° c) 180° d) 170°
54. The opposite angles of a cyclic quadrilateral are.
 a) supplementary b) complementary c) both (a) & (b) d) acute
55. If $p = 10,000$, $N = 1$, $R = 10\%$ then simple interest = ?
 a) 2000 b) 100 c) 10000 d) 1000
56. $8y$ is
 a) monomial b) binomials c) trinomials d) can't say
57. $(a + b)^3 = a^3 + b^3 + 3ab(a+b)$
 a) $a^3 - b^3 + 3ab(a+b)$ b) $a^3 + 3a^3b + 3ab^2 + b^2$ c) $a^3 + 3a^3b - 3ab^2 - b^2$ d) both (a) & (b)
58. Volume of the cylinder =
 a) $2\pi r(h + r)$ b) $\pi r^2 h$ c) πrh d) $2\pi rh$
59. If the radius of a ball is 2.1 cm what's its volume?
 a) 388.08 cu.cm b) 39.408 cm^3 c) 3.8808 cm^3 d) 38.808 cu.cm
60. $2y \times \dots\dots\dots = 10y^2$
 a) $6y$ b) $5y$ c) $5y^2$ d) $5y^3$

61. Which of the words, proper correct, same, approximate, indicates the meaning of the word 'Identical'?
- a) proper b) correct c) same d) approximate
62. How many zeroes are there in the numbers from 1 to 100 ?
- a) Nine b) Twelve c) Ten d) Eleven

Direction : ABCDE FGHIJ KLMNO PQRST UVWXY

63. Which is the third letter to the right side of the letter M in the given alphabet sequence ?
- a) K b) P c) L d) Q
64. Find the odd man out :
- a) Snake b) Lizard c) Crocodile d) Butterfly

Direction : Find the odd figure out of the given alternatives.



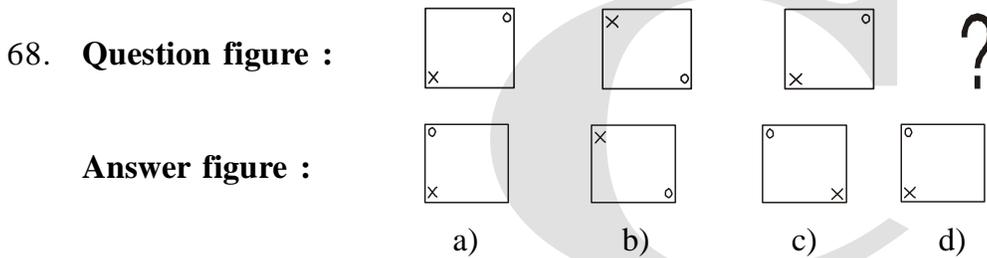
Direction : Find the odd man out from the question given below :

66. a) 8413 b) 7384 c) 4831 d) 1438

Direction : Find out the number which will occur at the place of question mark, in each series given below:

67. 3, 9, 27, 81?
- a) 162 b) 324 c) 243 d) 405

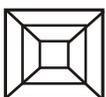
Direction : Find the missing figure in the series given below :



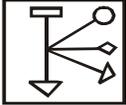
69. + + + + + + + + + + + +
- a) + + + b) + + + + c) + + + + + d) + +

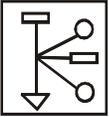
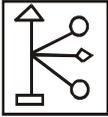
Direction : Identify the wrong term in the given series:

70. 2, 8, 27, 64, 125
- a) 2 b) 125 c) 27 d) 8
71. Sushant is cleverer than Makarand. Dinesh is not as clever as Makarand, but he is cleverer than Sudhir. Who is the cleverest?
- a) Sushant b) Makarand c) Dinesh d) Sudhir
72. In the given figure, how many quadrilaterals are there ?



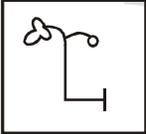
- a) 13 b) 17 c) 15 d) 14

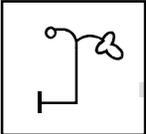
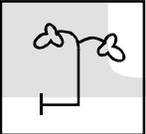
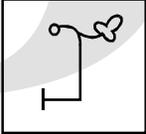
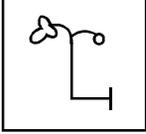
73. Question figure :  : Water Image

Answer figure :    

a) b) c) d)

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

74. Question figure : 

Answer figure :    

a) b) c) d)

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

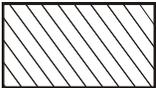
75. knife : cut :: needle : ?

a) cloths b) thread c) sew d) machine

76. tap : water :: bulb : ?

a) wire b) light c) switch d) electricity

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 alternatives.

77. Question figure :  :  ::  : ?

Answer figure :    

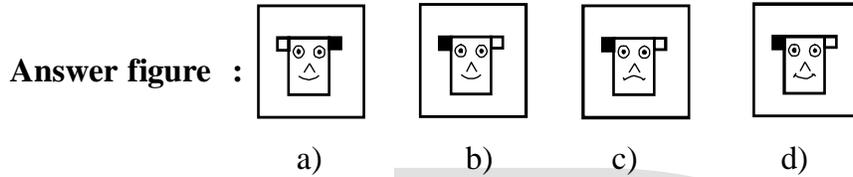
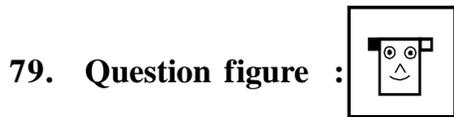
a) b) c) d)

Direction : Find the number in the place of question mark.

78. 7 : 49 :: 10 : ?

a) 16 b) 81 c) 100 d) 25

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

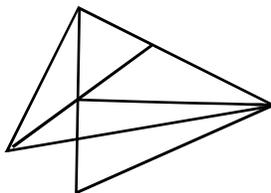


Direction : In each question below, there is a problem. It can be seen from these problems, how do you think and react? There are four alternatives given below the question. Find out the correct or proper alternative.

80. In a queue, Ajay is standing at the middle place which corresponds to the number 16. How many persons are there in the queue?
 a) 32 b) 31 c) 33 d) 34
81. Amit is facing the setting sun. Which direction will there be at his back side?
 a) East b) West c) South d) North
82. Suraj is elder to his sister by 730 days. If his sister was born on Saturday, on which day was Suraj born?
 a) Monday b) Saturday c) Friday d) Thursday

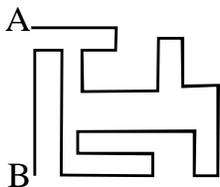
Direction : Study the figures given below carefully and write the answers in the box.

83. In the given figure, how many triangles can you get?



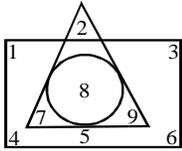
- a) 10 b) 12 c) 15 d) 17

Direction : (Question No. 84-85) In the adjoining figure, a path of travelling from A to B is shown. Answer the questions based upon this figure?



84. How many turns are there from A to B ?
 a) 20 b) 22 c) 21 d) 19
85. How many times does west direction appear on the right hand side while going from A to B ?
 a) 7 b) 6 c) 5 d) 8

86. How many digits are there only in the rectangle ?

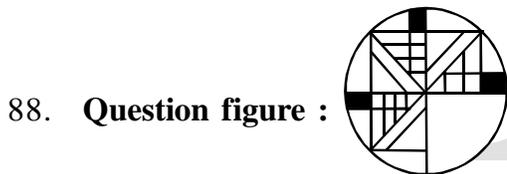


- a) Three b) Four c) Five d) Six

87. In a class of 75 students, only 10 students passed in Maths and Science, 35 students passed in Maths and 25 students passed in Science. How many students in the class failed in both the subjects?

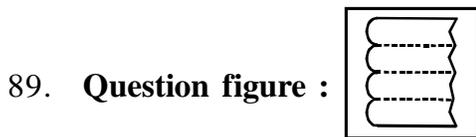
- a) 50 b) 25 c) 10 d) 75

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.



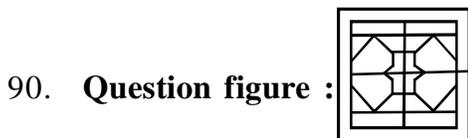
- Answer figure :
-
- a) b) c) d)

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?



- Answer figure :
-
- a) b) c) d)

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



- Answer figure :
-
- a) b) c) d)

Descriptive question (Compulsory)

I) Write an essay on any one of the following in 150 words. 5M

a) T.V. Serial : Good & Bad effects on culture

b) My favourite sports person

II) Expansion of an Idea any one in 150 words. 5M

a) If there were no newspapers.

b) My memorable Incident.

D

* * *

C

A