

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 : 2014

SR. NO.

TIME ALLOWED : 1.30 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 accessed.
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 4 : Read the following passage carefully and answer the questions given at the end of it by choosing correct alternative answer.

PASSAGE

There's something strangely familiar about this man. He is muttering to himself about airports and heavy snow.

"There's going to be a wintry atmosphere starting tomorrow," he says in loud monotone, shaking his head. "If you want more information about your luggage, you must report to carousel three, Report to carousel three!" he repeats with a bellow of laughter. People in the hotel bobby turn round in surprise, then smile as they recognize the shuffling gait and large bespectacled head of Kim peek. Here in Salt Lake City, USA, the 53- year-old is a local hero.

"You know the film Rain Man," Says Kim's father Fran. "Well this," he motions towards his son, "is Rain Man."

The Oscar-winning role played by Dustin Hoffman in the 1988 film, about an autistic savant with astounding arithmetical skills, is indeed based on Kim peek (among other), although Kim is not autistic but developmentally disabled, Most savants possess remarkable expertise in up to three subject. Kim is a mega-savant, because he is expert in at least 15 different subjects.

No one in the world is thought to possess a brain as extraordinary as Kim peek's NASA is hoping to use modern advances in brain imaging and data fusion techniques to shed light on how Kim's brain ticks.

1. Who is Kim's father?
a) Ran man b) Fran c) Dustin Hoffman d) Kim peek
2. You know the film Rain Man - Identify the tense.
a) Simple present tense b) Simple past tense
c) Simple future tense d) Prefect past tense
3. The Oscar-winning role was played by Dustin Hoffman in the 1988 film - Change the voice.
a) Dustin Hoffman played the Oscar-winning role in the 1988 film.
b) Dustin Hoffman was played the Oscar-winning role in the 1988 film.
c) Dustin Hoffman was playing the Oscar-winning role in the 1988 film.
d) Dustin Hoffman was being played the Oscar-winning role in the 1988 film.
4. In which hotel did the kim stay?
a) NASA b) Bobby c) Salt Lake City d) Mega

Q.5. to 7 : Read the following poem carefully and answer the questions choosing the correct option.

O gentlemen,
It is your blood or theirs,
It is the human blood after all.
War may go on in the East or the West,
It will bleed the peace of world, after all,

Bombs may fall on homes or on outskirts,
They wound the spirit of life after all.
Our wound may burn or theirs,
The famine will kill humans, after all.

5. Who does the poet address?
 a) Gentlemen b) youth c) Human d) None of these
6. They wound the spirit of life after all.
 a) Verb b) Noun c) Adverb d) Adjective
7. Write rhyming word for - outskirts
 a) theirs b) all c) west d) gentlemen

Instruction : Fill in the blanks with suitable alternative.

8. Write the correct word for I "ll "
 a) will b) shall c) fall d) was
9. The herd of deer ran away.
 a) Collective Noun b) Abstract Noun c) Common Noun d) Proper Noun
10. We come in by the back gate.
 a) Adjective b) adverb c) noun d) pronoun
11. I swim well.
 a) Verb b) adverb c) adjective d) noun
12. Kavita is intelligent but She is coward.
 a) noun b) pronoun c) verb d) adjective
13. Sushma look ----- her Father.
 a) upon b) after c) before d) from
14. Amol told a story ----- Akbar & Bibral.
 a) by b) about c) with d) on

Instruction : Find the word with correct spellings.

15. a) accompany b) acompany c) accompani d) accompeny
16. a) Assembly b) Asembly c) Assemmbly d) Assembely

Instruction : Give the synonyms of :

17. FAMOUS
 a) Frame b) Not famous c) Renowned d) Unkown
18. PROTECT
 a) Produce b) Guard c) The part d) Cut
19. PRANK
 a) Fool b) Trick c) Playful d) Game
20. SENTENCE
 a) Command b) Words c) Phrase d) Punishment

Instruction : Give the Antonyms of :

21. DEFEAT -
 a) War b) Peace c) Victory d) Lose
22. OLD -
 a) Past b) Recent c) New d) Ancient
23. CONFESS
 a) Deny b) Refuse c) Reject d) Accept

24. WILLING
 a) Anxious b) Easy c) Hesitant d) Regular

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

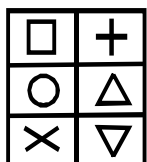
25. Many a student (a)/are frustrated (b)/because of unemployment.(c)/ No error (d)
26. He, you and I (a)/will manage (b)/this problem together.(c)/No error (d)
27. Was it him (a)/ who got injured (b)/in an accident this morning. (c)/ No error (d)
28. I suppose (a)/you have heard the latest news (b)/John has married that girl. (c)/No error (d)
29. As soon as he (a)/saw his mother (b)/he ran to her and embraced. (c)/ No error (d)
30. Due to me being a newcomer (a)/I was unable to get a house (b)/suitable for my wife and me. (c)/ No error (d)
31. $(888)^2 = ?$
 a) 778544 b) 788544 c) 788644 d) 788564
32. $[40]^2 - [20]^2 = ?$
 a) 1200 b) 1000 c) 1110 d) 3000
33. $(102)^3 = ?$
 a) 1030201 b) 1061208 c) 1020209 d) 1030301
34. Area of circle =.....
 a) $2\pi r$ b) $\frac{d}{2}$ c) $2r$ d) πr^2
35. How many edges does a cube have?
 a) 12 b) 8 c) 4 d) 2
36. Which of the following statements is true for a cuboid?
 a) Four faces flat and two faces curved b) All the faces flat
 c) Four faces curved and two faces flat d) All the faces curved
37. The market price of an article is Rs. 1000. The seller gives 20% discount. Find how much customer has to pay?
 a) Rs. 200 b) Rs. 800 c) Rs. 600 d) 700
38. Rajendra purchased a Pendrive for Rs. 300 and sold for Rs. 350 what his profit percent ?
 a) 20 % b) 25 % c) 45 % d) 80 %
39. A cuboid has edges.
 a) 3 b) 6 c) 9 d) 12
40. The average of 4 consecutive odd numbers is 42. What is the largest of these odd numbers?
 a) 45 b) 39 c) 33 d) 43
41. A sack contains 20 kg of rice. How many such sacks are required to fill in 460 kg. of rice.
 a) 230 b) 23 c) 46 d) 64
42. If Principal amounts to Rs. 5800 after 2 years and to Rs. 7000 after 5 years. Find the principal and the rate of interest.
 a) Rs. 1200; 8 p.c.p.a. b) Rs. 5000; 10 p.c.p.a.
 c) Rs. 5000; 8 p.c.p.a. d) None of these

43. If $9x^2 + 24y + (m + 5)^2$ is a perfect square, what is the value of m ?
 a) -4 b) 11 c) -2 d) 10
44. The population of Morgaon increases by 10% per year. If the population this year is 2420, what was the population of Morgaon 2 years ago?
 a) 3000 b) 2178 c) 2000 d) 1936
45. In a cricket tournament average runs of first four players is 66 and that of the remaining seven players is 22. Find the average runs by all the players in that innings.
 a) 44 b) 41 c) 39 d) 38
46. Simplify $1 - x + x^2 = \frac{x^3}{1+x}$
 a) $(1 - x + x)$ b) $2 + x$ c) $\frac{2}{x+1}$ d) All of these
47. The sum of two number is 39 and their ratio is 5: 8 then find the numbers.
 a) 15:24 b) 35:40 c) 20:32 d) None of these
48. The product of two - digit numbers is 768 and their G.C.D. is 8. Find the product of their u ncommon factors.
 a) 96 b) 20 c) 56 d) 12
49. 125 flowers of one type of jasmine and 175 flowers of the other type of jasmine are to be used to prepare garlands. Find the maximum nu mber of flowers that can be used in each garland.
 a) 5 b) 15 c) 25 d) 45
50. The perimeter of an isosceles triangle is 45 cm. If the length of the non-congruent side is half the length of the congruent sides, find the length of congruent sides.
 a) 4.5 cm b) 9 m c) 12 cm d) 18 m
51. The perpendicular line drawn through the midpoint of the side of a triangle is called of the triangle.
 a) angle bisector b) perpendicular bisector
 c) altitude d) median
52. What will be the shape of the figure formed in a plane, if all the points which are equidistant from the given point P in the plane are joined?
 a) Equilateral b) Square c) Circle d) Regular polygon
53. The perpendicular line drawn through the midpoint of the side of a triangle is called of the triangle.
 a) angle bisector b) perpendicular bisector c) altitude d) median
54. A segment drawn through a vertex of a triangle, perpendicular to the opposite side is called ... of the triangle.
 a) angle bisector b) perpendicular bisector c) altitude d) median

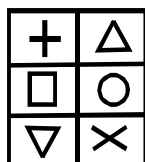
55. A 30 m log ladder is leaned against the top of the pole. If the bottom of ladder is 24 m away from the base of the pole on the ground, what is the height of the pole?
 a) 20 m b) 18 m c) 28 m d) 15 m
56. The ratio of the measures of the consecutive angles of a quadrilateral is 2 : 4 : 6 : 8, What type of quadrilateral is it?
 a) Parallelogram b) Kite c) Trapezium d) Rectangle
57. What is the area of a square whose perimeter is 9.2 cm?
 a) 5.29 sq cm b) 52.9 sq cm c) 5.29 sq m d) 81.4 sq cm
58. What will be the shape of the figure formed in a plane, if all the points which are equidistant from the given point P in the plane are joined?
 a) Equilateral b) Square c) Circle d) Regular polygon
59. P is a point on the circle with centre O. $l(OP) = 3.5$. Which of the following segments of given length can be the chord of the circle?
 a) 8 cm b) 5 cm c) 8.5 cm d) 9 cm
60. How many litres of water will flow through a tap in two and half hours, if 25 ml water flows through it in one second?
 a) 450 b) 4500 c) 225 d) 2250
61. Find the term from the given alternatives which matches the given letters or the groups of letters: O, X, H
 a) B b) C c) I d) U
62. Write in the box the letter that is nearest to 'N' but not nearest to 'P'
 a) L b) N c) Q d) O

Direction : There is a set of four words in each of the following questions. Find the one that does not belong to the group that the other three belong to :

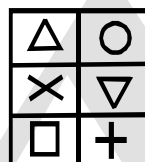
63. a) Brinjal b) Tomato c) Potato d) Ladies finger
64. In each of the questions below three figures form a group due to their similarity. One figure is different. Choose the odd one:



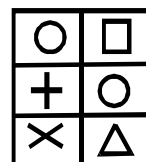
a)



b)



c)



d)

65. Find the odd man out :
 a) Solar energy b) Wind energy c) Petrol d) Biogas

Direction : In the questions below the relationship between the first term and the second is the same as it is between the third and the fourth term. Taking this into consideration which alternative will come in place of the question mark?

66. $3 : 16 :: 6 : ?$

- a) 35 b) 32 c) 37 d) 31

67. $20 : 11 :: 102 : ?$

- a) 49 b) 52 c) 61 d) 98

68. Which is the third letter to the left side of the letter N?

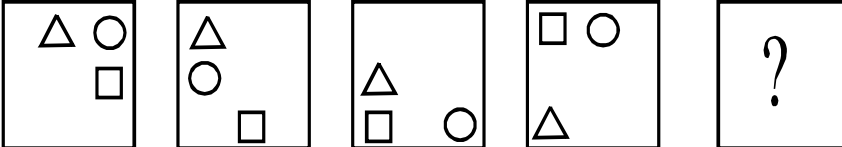
- a) J b) K c) L d) H

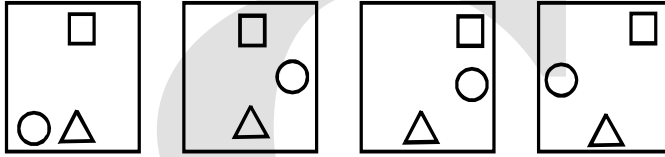
69. What will replace the question mark in the series below?

N, L, J, H, ?

- a) I b) G c) F d) E

Direction : In the following question find the correct alternative to replace the question mark:

70. **Question figures :** 

Answer figures : 

a) b) c) d)

Direction : What will come in place of the question marks in the following series?

71. ☆☆☆○○?○○, ☆☆☆○○○○, ☆??☆☆○○○

- a) ☆☆☆ b) ☆○○☆ c) ☆○○○ d) ○☆☆☆

Direction : Which letter will replace the question mark in each of the following question?

72. A, E, I, ?, Q

- a) M b) M c) O d) T

Direction : In this type of code, letters are assigned for letters. Letters in the original word and the code have a definite relationship between them. The relationship is to be found out and with the help of it the given word is to be converted into the code.

73. In a code, the word "MAN" is written as 'NBO', how will the word 'GET' be written in the code?

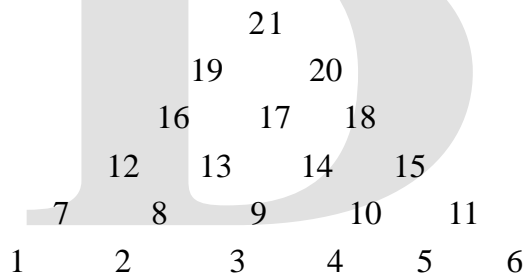
- a) HUE b) EUH c) HFU d) UEH

74. In a code, 'GONE' is written as 'EGNO'. How will 'TEN' be written in that code?
 a) ENT b) NET c) NTE d) TNE

Direction : In the questions below the relationship between the first term and the second is the same as it is between the third and the fourth term. Taking this into consideration which alternative will come in place of the question mark?

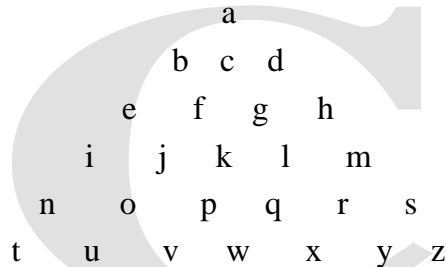
75. tomatoes : sauce :: ? : jam
 a) vegetable b) net c) fruits d) potato
76. sea : deep :: mountain : ?
 a) long b) high c) wide d) low

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



77. 7, 13, : 11, 14 :: 1, 8, : ?
 a) 1, 3 b) 6, 10 c) 10, 5 d) 15, 10

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



78. iov : jou :: mrx : ?
 a) yrl b) kqx c) lrs d) lry

Direction : In the following questions there is a certain relationship between the first and the second term, the same relationship exists between the third and the fourth term. One of the term is missing. Find the missing term. :

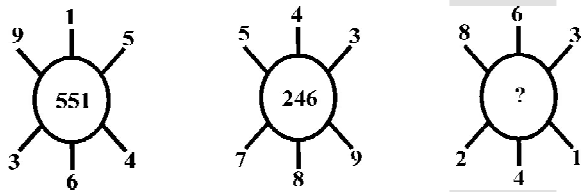
79. YA : BX :: WC : ?
 a) UE b) KO c) DV d) UD
80. D : P :: C : ?
 a) F b) O c) G d) K
81. How many times will the minute hand of the clock cross the hour hand between 6 : 50 a.m. and 10 : 50 a.m.?
 a) 4 b) 5 c) 3 d) 2
82. How will you say 5.26 hours in hours, minutes and seconds?
 a) 5 hours, 20 minutes, 6 seconds b) 5 hours, 26 minutes
 c) 5 hours, 15 minutes, 10 seconds d) 5 hours, 15 minutes, 36 seconds

83. In a queue, Sunil is at the 20th place from one end. There are 2 boys between Sunil and Anil. What is Anil's place in the queue?
- a) 19th b) 17th c) 21st d) 25th

Direction : Find the term that matches the group:

84. 87, 203, 145
 a) 160 b) 58 c) 77 d) 145
85. Meena was born on 22nd November. Rekha is older than Meena by 16 days. If the Children's Day was celebrated on Wednesday in that yera, on what day was Rekah born?
 a) Monday b) Tuesday c) Wednesday d) Thursday

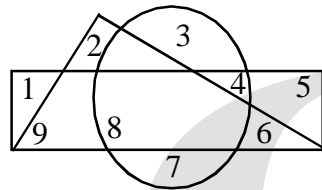
Direction : Find the missing term.

86. 
- a) 262 b) 622 c) 631 d) 824

Directon : 1 and 2 : Observe the Venn diagrams given below and answer the following questions:

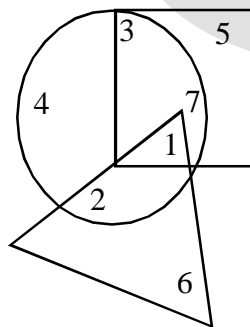
87. Which numbers are there only in the circle?

- a) 7, 4
 b) 3, 4
 c) 3, 7
 d) 8, 3, 7

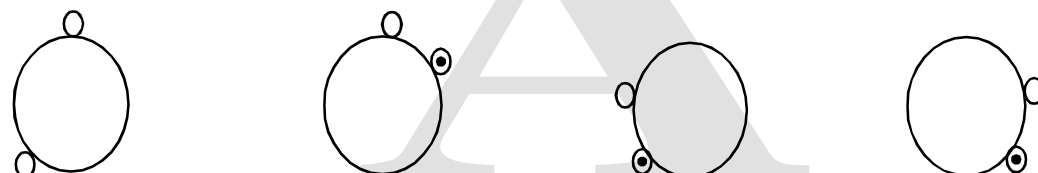


88. In the adjoining figure, multiply the numbers which are only in the circle, only square and only triangle.

- a) 120
 b) 42
 c) 84
 d) 105



Direction : Find the odd man out from the figures given in each question below:

89. 
- a) b) c) d)

Direction : There is a set of four words in each of the following questions. Find the one that does not belong to the group that the other three belong to:

90. a) Bus b) Car c) Jeep d) Scooter

■ Descriptive question (Compulsory)

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

- a) Mobile Games : Affecting children
- b) My favourite Game

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

- a) If there were no newspapers.
- b) My memorable Incident.

C

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