

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



ENTRANCE EXAMINATION - IX
DEFENCE CAREER ACADEMY,
AURANGABAD.

As an ISO 9001 : 2008 - Certified

ENT : 2015

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

PASSAGE

Perrault began to live the kind of life that he had always wanted to live. He had never had enough time for reading, now he had all the time in the world. He soon, of course, felt a great need for more books, but there were a few which he had brought with him, and they included an English grammar and dictionary. With these to work on, he managed to master all the difficulties of that language. His memory was astonishing, it almost seemed that he could now learn every thing far more easily than he had been able to learn anything during his student days.

1. Perrault managed to learn English well because
 - (a) he read several books in English
 - (b) he carefully studied its structure and words.
 - (c) he spent most of his time with English people.
 - (d) he spent most of his time thinking about English.
2. The statement: 'Perrault began to live the kind of life that he had always wanted to live' implies that
 - (a) he had always wanted to lead a life of action
 - (b) he had always wanted to remain aloof from society
 - (c) he had always wanted to enjoy the company of books and thoughts.
 - (d) he had always wanted to lead a life of devotion.
3. In the passage "to master all the difficulties" means
 - (a) to remove all the difficulties.
 - (b) to understand all the difficulties.
 - (c) to overcome all the difficulties
 - (d) to teach the way of solving difficulty

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

The caves of Ajanta had been carved out of a semicircular cliff overlooking the ravine of the river Waghora between 200 B.C.. and 650 A. D. They were cut by hand with stone masons and sculptors inevitably starting from the ceiling and working their way down. In other words, those ancient designers had to visualize the completed cave while still looking at a bare cliff face; every sculpture, every beam and pillar, every window, every tiny decoration cut into the ceiling; all these had to be planned with precision. The beautiful sculptures of Ajanta are, for the most part, on the outer walls of the caves. Inside, the caves are alive with paintings which, in spite of the passage of centuries, still glow with a vibrancy which seems to defy time.

4. The Ajanta caves were excavated during the centuries.
 - (a) before Christ was born
 - (b) before the Buddha was born
 - (c) both before and after Christ was born
 - (d) after the Buddha was born and before Christ was born
5. The caves at Ajanta have
 - (a) their paintings and sculptures half inside and outside
 - (b) paintings all inside and sculptures mostly outside
 - (c) their paintings and sculptures only inside
 - (d) their paintings on the outer walls and sculptures on the ceiling

6. The ancient artisans of Ajanta started their work from the ceiling because
 (a) the monks must have ordered them to do so
 (b) cutting downwards was easier than cutting upwards
 (c) the painters might have asserted their right to begin their work after the roof had been
 (d) otherwise that roofs of caves would have collapsed.

Instruction : Choose the best word out of the three. Mark the letter, viz., 'a', 'b', or 'c' relating to this word on your Answer Sheet.

It is regrettable that the press. Radio and television still tend too often to present old age in an unhappily one-sided way. I believe that they do this from the7.... of motives. They are trying to ..8.... the conscience of society to the.... 9..... of those elderly people who refuse help, who are lonely, destitute, ill.....10.... institutionalized and soon. I am ...11.... The media achieve.... 12.... Response and some amelioration of the situation for some of these people.

7. (a) worst (b) best (c) wildest (d) None of these
 8. (a) pinch (b) disturb (c) awaken (d) None of these
 9. (a) plight (b) crisis (c) misery (d) None of these
 10. (a) forgotten (b) bed-ridden (c) lost (d) None of these
 11. (a) sure (b) worried (c) uncertain (d) None of these
 12. (a) some (b) little (c) any. (d) None of these

Instruction : Choose the word/phrase proper in meaning to the blank.

13. You are an asset to our team.....
 (a) stay it up ! (b) ramian doing it ! (c) keep it up ! (d) continue it up !
 14. Dont be put by is manner, he is really kind hearted.
 (a) on (b) off (c) upon (d) of
 15. Mr. Corp : What You say that, Madam ?
 (a) makes (b) does (c) do (d) have
 16. Jill : I don't think I can stand much more of this. Frank :
 (a) the worst is by ! (b) the worst is through ! (c) the worst is gone ! (d) the worst is over !
 17. I havent got Tea. Can you go to the corner store and buy some more ?
 (a) a (b) some (c) any (d) I don't know

Instruction :Rearrange in each of the following questions, following five sentences P,Q, R, S in the proper sequence so as to form a meaningful paragraph, then answer the questions given below them.

18. A series of shocks is known as earthquake (P)/ which can be recognized through seismic waves (Q)/ that result from sudden earth movements or tremors (R) causing widespread destruction of life and property (S).
 The correct sequence should be
 (a)PQRS (b) RPQS (c) RSPQ (d) RQSP
 19. In this world (P)/ a man has (Q)/ it is possible that the best friend (R)/ may turn against him (S).
 The correct sequence should be
 (a)QPRS (b) PQRS (c) RQPS (d) QRSP
 20. We are doing to the people (P)/to give relief (Q)/ all we can (R)/but more funds are needed (S).
 The correct sequence should be
 (a)PQRS (b) RQPS (c) QPRS (d) SPQR
 21. When he was (P)/ in the office last evening (Q)/ could not finish (R)/ all his work (S).
 The correct sequence should be
 (a)PQRS (b) QRSP (c) RQPS (d) RSPQ

22. The people decided they were going (P)/ how much (Q)/ to spend (R)/on the construction of the school building (S).

The correct sequence should be

- (a)QPRS (b) PQRS (c) PRQS (d) SQPR

Instruction : In the section 5 sentence are given. Each sentence has three parts, indicated by (a), (b) . Read each sentence to find out whether there is an error. If you find and one of the parts (a, b, c), then the number of that part is your answer. If a sentence has no error, then your answer is 'd' which stands for "No error".

23. On hearing the news over the radio that(a)India won the hockey match, (b) I jumped with joy (c) No error. (d)
24. My uncle frequently goes to abroad(a)on business(b)by air(c) No error(d)
25. Mr. Sunil Pawar, our representative,(a)he will attend the meeting (b)on ourbehalf.(c)No error(d)
26. The manager called the clerk and said whether(a)he was in the habit of (b) sleeping at home as well.(c) No error. (d)
27. "I'm the last person (a) to dream of causing him any harm", (b)said an agitated Armstrong to the inspector. (c) No error (c)

Instruction : Find the word with correct spellings.

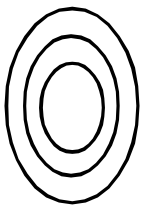
28. a) Conversetion b) Convershetion c) Conversation d) Convarsation
29. a) Comunication b) Communication c) Communcation d) Communcation
30. a) invigilator b) Invigilatar c) Envigilator d) Envigilatar
31. The collection of numbers we get by puting together rational and irrational numbers is called the collection of.....
- a) real number b) natural number c) prime number d) None of these
32. The square root of 2025 is
- a) 45 b) 54 c) 55 d) 65
33. Numbers whose decimal form is non-terminaeting but is not recurring are called
- a) rational number b) irrational number c) perfect square d) None of these
34. A quadrilateral with opposite sides parallol is called a
- a) rhombus b) square c) parallelogram d) kite
35. A (parallelogram) =
- a) $\frac{1}{2} \times b \times h$ b) $2 \pi r$ c) $\frac{1}{2} \times \pi r^2$ d) $b \times h$
36. $\frac{y}{x} = k$ is the equation of
- a) Inverse variation b) Amount variation
- c) Direct variation d) None of these
37. $a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ it is a expantion of
- a) $(a^2 + b^2 + c^2)$ b) $(a + b + c)^2$ c) $a^2 - b^2 - c^2$ d) $(a-b-c)^2$

38. $(a - b)^3 = \dots\dots\dots ?$
 a) $a^3 - 3a^2b + 3ab^2 - b^3$ b) $a^3 + 3a^2b + 3ab^2 + b^3$ c) $a^3 - b^3$ d) None of these
39. $\sqrt[3]{343} = ?$.
 a) 9 b) 6 c) 8 d) 7
40. The measure of a semicircular arc is
 a) 90° b) 260° c) 360° d) 180°
41. The market price of a book is 180 Rs. If the shopkeeper gave it to Asmita for 153 Rs. What is discount that she got ?
 a) 30 Rs. b) 333 Rs. c) 27 Rs. d) 30 Rs.
42. Volume of the cylinder =
 a) πrh b) πr^2h c) $2\pi rh$ d) $2\pi rl$
43. $(a+b)^3 = [a^3 + b^3 + 3ab(a+b)]$
 a) True b) False c) Can't say d) None of these
44. $\sqrt[3]{1} = ?$
 a) 0 b) 3 c) 3×1 d) 1
45. $[(4)^2]^3 = ?$
 a) 4^5 b) 4^6 c) 4^1 d) 4^{-1}
46. If $P = 10,000$, $R = 10\%$, $N = 3$ years what is simple interest?
 a) 1000 Rs. b) 2000 Rs. c) 3000 Rs. d) 3050
47. What is the degree of polynomial $28 - 9m^2 + 13m^3$
 a) 2 b) 1 c) 3 d) 0
48. Which is trinomial in the following.
 a) $8x + 9$ b) $m^2 - 2m + 6$ c) $13 - 17n^2$ d) $13xyz$
49. Which is/are true.
 a) Discount = Marked price - selling price
 b) Discount = market price \times discount percent
 c) both (a) and (b)
 d) none of these
50. Total surface area of a cone =
 a) $\pi r(l + r)$ b) $2\pi rl$ c) πrl d) $\pi r + l$
51. When we divide $-30n^2$ by $3n$ then quotient will get
 a) $-10n^2$ b) $-10n$ c) $10n$ d) $10n^3$
52. Which is true statement
 a) Dividend = divisor \times quotient + remainder b) Dividend = quotient \times remainder + divisor
 c) both (a) & (b) d) None of these
53. IN which triangle have three sides equal.
 a) Scale b) right angle c) equilateral d) none of these

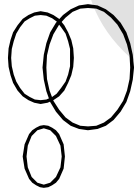
54. The 'average' is called the
- a) Median b) Mode c) Mean d) None of these
55. If $m \propto n$, when $m = 7.5$, $n = 10$
- a) 75 b) 7.05 c) 75.01 d) 0.75
56. The factor of $p^2 + 3p - 54$ are
- a) $(p-4)(p+3)$ b) $(p+9)(p-6)$ c) $(p+6)(p-1)$ d) None of these
57. Solve : $x-3 = 5$, find value of x
- a) 7 b) 2 c) -8 d) 8
58. The opposite angles of a cyclic quadrilateral are
- a) complementary b) supplementary c) both (a) & (b) d) None of these
59. Compound Interest =
- a) Amount - Interest b) Amount + Principal c) Amount - Principal d) Amount - Principal
60. Coefficient of monomial $-n^3$ is
- a) -3 b) 1 c) -1 d) 0
61. In a certain code, 'MAN' is written as 'MAAN' and 'LOUD' is written as 'LOOUUD', then how is 'SPEAK' written in that code?
- a) SPEAAK b) SPPEAK c) SPEEAAK d) SPEEAK
62. In a certain code, the word 'STORY' is written as 'SOYTER'. How will the word 'LEARN' be written in the same code?
- a) LNARE b) LANER c) ENALR d) RNALE

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 :

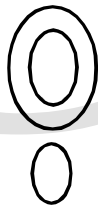
63. a) Apple b) Chikoo c) Watermelon d) Carrot
64. In each of the questions below three figures form a group due to their similarity. One figure is different. Choose the odd one:



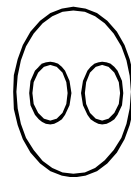
a)



b)



c)



d)

65. Find the odd man out :
- a) Stem b) Leaf c) Branch d) Root

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. $36 : 6 :: ? : 90$
- a) 8 b) 110 c) 8100 d) 130
67. $4 : 63 :: 5 : ?$
- a) 315 b) 124 c) 252 d) 130

68. Alphabet : ABCDE FGHIJ KLMNO PQRST UVWXY

How many letters are there between C and I ?

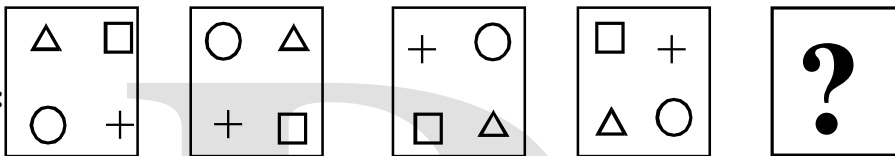
- a) Six b) Seven c) Five d) Four

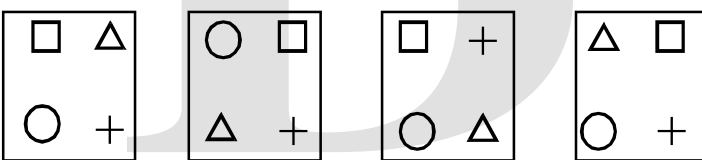
69. What will replace the question mark in the series below?

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. K, O, R, V, ?

- a) X b) W c) Y d) A

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 'water' is written as WRARTRERRR, how will you write the word 'mango' in the same code?

- a) MANRRGROG b) MRARNRGROR c) RARARGONRR d) MRARRNGOR

74. In a code, 'BC' is written as 'ADEF', the word 'YT' is written as 'XUVW'. Then how will the word 'CP' be written as?

- a) CDEF b) BRST c) BQRS d) BDEF

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?

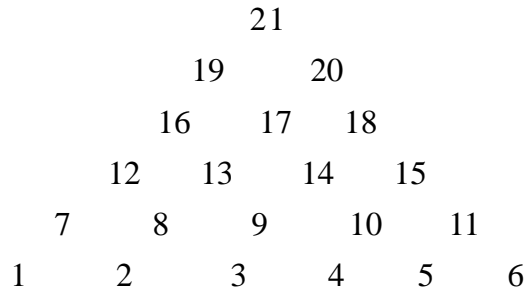
75. Godavari : Sahyadri : : ? : Tapi

- a) Brahmagiri b) Aravali c) Satpura d) Vindhyaadri

76. drama : stage : : film : ?

- a) screen b) theatre c) ticket d) spectator

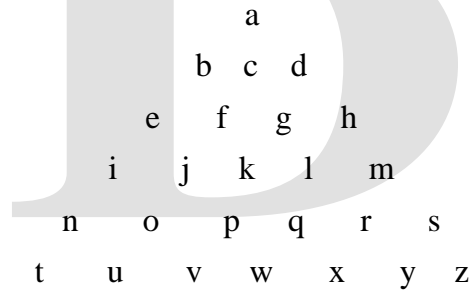
Direction : Study the pyramid given below and answer questions upon it:



77. 2, 13, 4 : 10, 11 :: 1, 12, 3 : ?

- a) 4, 5 b) 5, 6 c) 9, 10 d) 8, 9

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



78. tuo : zyr :: ijf : ?

- a) glm b) mlq c) mlg d) mgh

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. ACEG : HJLN :: YWUS : ?

- a) RPNL b) NLJH c) PNLJ d) SQOM

80. EFJ : JLO :: GIL : ?

- a) LMN b) LOQ c) LMQ d) LOP

81. A clock is showing the time as 4 : 40. How many times will the minute hand cross over the hour hand before their positions are interchanged as in the mirror image?

- a) thrice b) twice c) once d) none of these

82. A clock strikes once every half of an hour and at the hour it strikes as many times as the hour. Count the number of strokes of the clock from 10 : 00 a.m. to 4 : 30 p.m. of the same day.

- a) 40 b) 49 c) 50 d) 52

83. A clock has a bell that rings every half-hour. At every one hour, the bell rings corresponding to the time shown on the clock. How many times does the bell ring from 12 noon to 8 in the evening?

- a) 90 b) 56 c) 180 d) 48

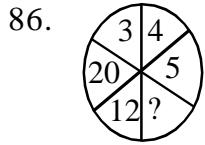
Direction : Find the term that matches the group:

84. $\frac{45}{54}, \frac{35}{42}, \frac{30}{36}$

- a) $\frac{40}{56}$ b) $\frac{50}{70}$ c) $\frac{10}{12}$ d) $\frac{5}{7}$

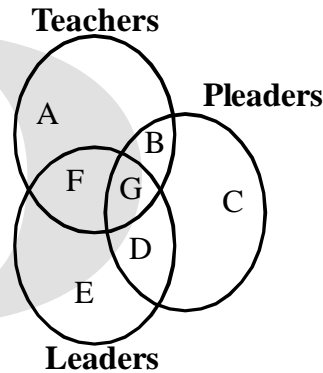
85. Mohani was born on 22nd November. Durga is older than Mohani by 16 days. If the Children's Day was celebrated on Wednesday in that year, on what day was Durga born?
 a) Saturday b) Tuesday c) Wednesday d) Thursday

Direction : Find the missing term.



- a) 3 b) 4 c) 6 d) 27

Directon : (Q. No. 87 to 89) One of the circles in the adjoining figure represents a group of teachers. The second circle represents a group of pleaders and the third circle represents a group of leaders.



Now answer the following three questions:

87. Which letter represents the number of leaders, who are teachers but not pleaders?
 a) F b) G c) B d) D
88. Which letter represents the number of teachers, who are pleaders but not leaders ?
 a) F b) G c) B d) D
89. Which letters represents the number of pleaders, who are teachers as well as leaders?
 a) F b) G c) B d) 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) Computer Games : Affecting children
 b) My favourite Teacher
- II) Expansion of an Idea any one in 150 words. 5M**
 a) If there were no Birds.
 b) My memorable Event.
