

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



**ENTRANCE EXAMINATION -VIII**  
**DEFENCE CAREER ACADEMY,**  
**AURANGABAD.**

**As an ISO 9001 : 2008 - Certified**

**ENT : 2016**

**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 3 : Read the following passage carefully and answer the questions choosing the correct option.**

**PASSAGE - I**

On 5th April the “Yatra” reached the village near surat at 8:30 a.m. Gandhiji picked up some salt from the salt storage, By this action he broke the salt law. This was not only breaking the law, but also freeing the people of India from the inhuman laws of the British government. If the mind is free, no shackles (chains) can bind a person. Gandhiji had opened the doors of the freedom movement.

Thousands of minds became free from pressure and fear. The light of freedom was lit in the minds of the people. thousands of people from cities and villges came to the seashore and collected the salt. Obtaining salt without paying tax was like a blessing for the freedom movement. Gandhiji wanted to show to the world that nobody can pressurise the people against their wick. Nobody can rule the people against their wish. Gandhiji picked up a pinch of salt, which gave great strength to the people to fight against the rulers. This is the famous “Dandi Yatra”.

1. The act of picking salt was.  
(a) indisciplin (b) unfair  
(c) breaking the law (d) inhuman
2. No shackles can tie the mind that is .....  
(a) sad (b) free  
(c) wavering (d) imaginative
3. The salt was taken as a ..... of the freedom movement.  
(a) curse (b) blessing  
(c) tax (d) sample

**PASSAGE - II**

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

Life ! I know not what thou art,  
But know that thou and I must part;  
and when, or how, or where we met,  
I own to me's secret yet.  
Life we've been long together  
Through pleasant and through cloudy weather;  
It is hard to part when friends are dear  
Perhaps 'twill cost a sigh, a tear;  
- Then steal away, give little warning.  
Choose thine own time;  
Say not Good-Night-but in some brighter clime  
Bid me Good Morning.

4. What does the poetess know about life?  
(a) She knows that life is. (b) Life is a mystery to be lived.  
(c) She and life will have to part some day. (d) She and life will continue.

5. What does the poetess confess ?  
 (a) She does not know when she met life (b) She is ignorant  
 (c) She has to face problems in life. (d) None of these
6. The term - "Through pleasant and through cloudy weather" means -  
 (a) through riches and poverty  
 (b) through the joys and sorrows of life  
 (c) through sunlight and moonlight  
 (d) through summer and rainy season.

**Instruction : Fill in the blanks with the correct alternative.**

7. Did Amol ..... his pen?  
 a) loss b) lose c) lost d) loose
8. The jewels have been .....  
 a) steal b) stealing c) stolen d) stealed
9. I ..... be ten next month.  
 a) will b) shall c) would d) should
10. Sheila ..... to wear a ponytail.  
 a) like b) likes c) liking d) has liked
11. They will ..... meeting their grandparents.  
 a) be b) been c) being d) bee

**Instruction : Choose the right.**

12. They are proud ..... their success.  
 a) about b) of c) off d) with
13. There was a fence ..... the two fields.  
 a) among b) from c) between d) in
14. The road hasn't been repaired ..... the accident.  
 a) since b) for c) from d) at
15. He complained ..... the injustice done to him.  
 a) about b) of c) for d) on

**Instruction : Find the word with correct spellings.**

16. a) administrater b) administratur c) administrator d) admenistrator
17. a) troublesome b) troblesome c) troublesum d) troblesum
18. a) chiefs b) chieves c) chiefes d) chefes

**Instruction : Give the synonyms of :**

19. significant :  
 (a) trifle (b) insignificant (c) important (d) strong
20. conciliatory :  
 (a) conceivable (b) agreeeable (c) considerable (d) unbelievable

21. haughty :  
 (a) angry (b) violent (c) proud (d) brave
22. fragile  
 (a) dishonest (b) rude (c) delicate (d) humble

**Instruction : Give the Antonyms of :**

23. adversity :  
 (a) ease (b) scarcity (c) vanity (d) eternity
24. yield :  
 (a) give up (b) withhold (c) tempt (d) stoop
25. spurious :  
 (a) calm (b) genuine (c) misleading (d) fake
26. tranquil  
 (a) agitated (b) calm (c) anger (d) quiet

**Instruction :** In this section, five sentences are given. Each sentence has three parts indicated by a, b and c. Read each sentence to find out whether there is an error in one of the parts. If you find an error in any one of the parts [a, b, c,] indicate your response by blackening the letter related to that part in the Answer Sheet provided, If a sentence has no error, indicate this by blackening [d] which stand for “No error”.

27. From over last five years (a) / I have been tying (b) / my best no convince him but without success. (c)/ No error. (d)
28. in spite of toiling very hardly he (a) / realied that he had (b) / not earned anything substantial. (c)/ No error (d)
29. We have observed that (a)/ many good programmes (b)/ suffer of shortage of funds and other resources (c) / No error (d)
- 30 You deserve to be (a) / rewarded by your successful (b) / completion of the entire work in such a short time. (c) / No error (d)
31.  $(-10) + 3 = \dots\dots\dots$   
 a) 7 (b) -7 (c) +7 (d) 13
32.  $(-35) + (-10) =$   
 a) 45 (b) -45 (c) -25 (d) 25
33.  $-3 \times 4 =$   
 a) 12 (b) - 12 (c) 24 (d) -24
34.  $a \div a = \dots\dots\dots$   
 a) 1 (b) 0 (c) 9 (d) -1
35.  $20 \div (-2) =$   
 a) 40 (b) -40 (c) -10 (d) 10
36. Add 4 to eight times a number you get 60  
 a)  $8x + 4 = 60$  (b)  $4x + 8 = 60$  (c)  $60 = 4 + 8$  (d)  $60 + 8 = 4x$
37. Sum of supnplementary angles.  
 a) 90 (b) 180 (c) 45 (d) 100

38. Sum of complementary angles  
 a) 45                      b) 100                      c) 180                      d) 90°
39. Which of the following can be the sides of a right triangle ?  
 a) 2.5 cm, 6.5 cm, 6 cm                      b) 2 cm, 2cm, 5 cm,  
 c) 1.5 cm, 2 cm, 2.5 cm                      d) 2 cm, 2 cm, 6 cm
40. Fill in the boxes  $\frac{5}{4} = \frac{\square}{16}$   
 a) 25                      b) 20                      c) 30                      d) 40
41. What is the coefficient of x in  $23m + 13x - 3x^2$   
 a) 23                      b) 3                      c) 13                      d) -3
42.  $4x^2 + 7x^3 =$   
 a)  $10x^3$                       b)  $3x^2$                       c)  $4x + 7x^3$                       d)  $4x^2 + 7x^3$
43. If  $m = 2$  then the value of  $m - 2$   
 a) 4                      b) 2                      c) 0                      d) - 2
44.  $a^m \times a^n = \dots\dots\dots$   
 a)  $a^{m-n}$                       b)  $a^{m+n}$                       c)  $aa^{mn}$                       d) None of these
45.  $a^m \div a^n =$   
 a)  $a^{m+n}$                       b)  $a^{m-n}$                       c)  $a^{m \times n}$                       d)  $a^{m \div n}$
46.  $a^m \times b^m = \dots\dots\dots$   
 a)  $(ab)^m$                       b)  $a^m + b^m$                       c)  $a^m - b^m$                       d)  $(ab)^{m^2}$
47.  $4x - 3x^2 = -$  if  $x = 2$   
 a) 4                      b) -3                      c) -4                      d) 3
48.  $\frac{10 \div (-5)}{-15 \div (-5)} = \dots\dots\dots$   
 a)  $\frac{2}{3}$                       b)  $\frac{-2}{3}$                       c)  $\frac{2}{-3}$                       d)  $\frac{-2}{-3}$
49.  $\frac{36}{-24} = \dots\dots\dots \frac{-3}{2}$   
 a)  $\frac{36 \div (12)}{24 \div (12)}$                       b)  $\frac{36 \div (-12)}{24 \div (12)}$                       c)  $\frac{36 \div (-12)}{24 \div (-12)}$                       d)  $\frac{36 \div (-6)}{24 \div (6)}$
50.  $a + b = \dots\dots\dots$   
 a)  $a - b$                       b)  $a + b$                       c)  $b + a$                       d)  $b \times a$
51. The measure of the supplementary of the angle  $110^\circ$  is .....
- a) 70                      b) 250                      c) 40                      d) 200

52. The sides of a triangle are 13 cm, 10 cm and 10 cm respectively the triangle is.  
 a) Isosceles                      b) equilateral                      c) right angled                      d) can't be determined
53. If the angles of a triangle are in the ratio 2 : 3 : 4 then the greatest angle of the triangle is.  
 a)  $75^\circ$                       b)  $80^\circ$                       c)  $90^\circ$                       d)  $120^\circ$
54. What should be subtracted from  $4x^2 + 3x - 7$  to get  $3x^2 + 6x + 5$  ?  
 a)  $7x^2 + 9x - 3$                       b)  $3 - 9x - 7x^2$                       c)  $7x^2 + 9x - 2$                       d) None of these
55. If two angles are complementary of each other, then each angle is.  
 a) an obtuse angle                      b) a right angle                      c) an acute angle                      d) a supplementary angle
56. If the measure of the sides of triangle are 10 cm, 10 cm, 10 cm, the forming triangle is .....  
 a) Isosceles                      b) equilateral                      c) right angle                      d) equilateral
57. If  $x = 4$ , and  $y = -2$  then the value of  $x^2 + y^2 + 4 =$   
 a) -24                      b) 24                      c) 20                      d) -20
58. The expression to be added to  $(5x^2 - 7x + 2)$  to produce  $7x^2 - 17x + 2$  is.  
 a)  $2x^2 + 24x + 3$                       b)  $2x^2 - 7x - 3$                       c)  $2x^2 - 10x$                       d)  $12x^2 - 7x + 1$
59. What should be subtracted from  $6x^3 - 2x^2 + 9x + 2$  so as to get  $10x^3 - 7x^2 + 10$  ?  
 a)  $-4x^3 - x^2 + 16x - 8$                       b)  $4x^3 + x^2 - 16x + 8$   
 c)  $16x^3 - 3x^2 + 2x + 128$                       d) None of these
60. If  $x = -4$  find the value of  
 $\frac{x^2}{4} + 5 =$   
 a) 21                      b) 9                      c) -21                      d) -9
61. Light makes things ..... to us.  
 a) invisible                      b) Visible                      c) dark                      d) shine
62. .... necessary for the growth of plant.  
 a)  $O_2$                       b) metal                      c) sun light                      d) salty water
63. .... is a bad conductor of heat.  
 a) Copper                      b) Stainless steel                      c) Aluminium                      d) Glass
64. The quantity of heat required to raise the temperature of 1 gm of water by  $1^\circ C$  is called.....  
 a) Kilocalorie                      b) Calorie                      c) joule                      d) erg
65. The temperature at which a liquid substance starts to boil is called .....  
 a) boiling point                      b) melting point                      c) freezing point                      d) specific heat
66. The particular area in which a group of animals and plants live and flourish together is called .....  
 a) Habit                      b) Place                      c) Ecosystem                      d) Habitat
67. .... is a unicellular organism  
 a) Hydra                      b) Earthworm                      c) Amoeba                      d) Fungi
68. .... animals are born from the womb of the mother  
 a) Oviparous                      b) Viviparous                      c) Birds                      d) Aquatic

69. Human heart is divided into ..... chambers or parts.  
 a) 4                                      b) 2                                      c) 3                                      d) 6
70. A substance which is formed by the combination of two or more elements is called.....  
 a) mixture                                      b) element                                      c) solid                                      d) compound
71. Stainless steel is obtained by the combination of chromium and .....  
 a) Carbon                                      b) Iron                                      c) aluminium                                      d) Copper
72. The chemical symbol of potassium is.....  
 a) K                                      b) P                                      c) Ca                                      d) N
73. Sound of frequencies above 20,000 Hz is called an .....  
 a) radar                                      b) audible sound                                      c) ultrasound                                      d) sonar
74. The reflection of sound is called.....  
 a) Ultrasound                                      b) Sonar                                      c) Echo                                      d) audible
75. .... is a small and simple device to identify electric charges.  
 a) Microscope                                      b) Telescope                                      c) Stethoscope                                      d) Electroscope
76. If letters in the word INDIAN are written in the reverse order, which will be the second letter in it?  
 a) N                                      b) A                                      c) I                                      d) D

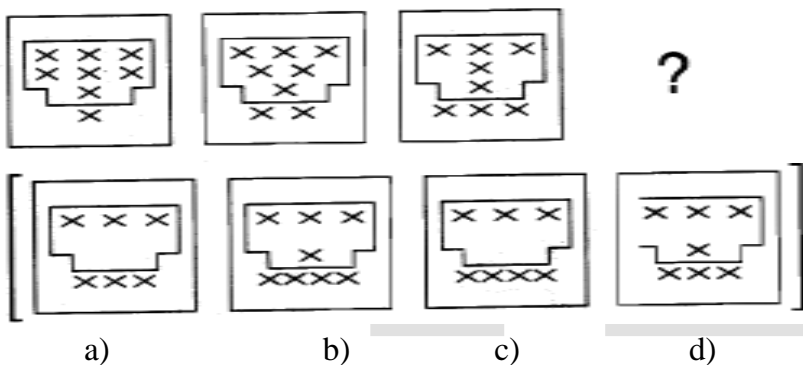
**Direction : Find out the letter or group of letters in the place of question mark in each series below:**

77. AM, BN, CO, DP, ?  
 a) EF                                      b) QE                                      c) EO                                      d) EQ

**Direction : In the following questions, the 1st word is related to the 2nd word, So also the 3rd to the 4th. Select the proper word from the given alternatives in the place of question mark:**

78. Milky Way : galaxy :: Venus : ?  
 a) star                                      b) planet                                      c) satellite                                      d) comet
79. college : education :: credit society : ?  
 a) grocery                                      b) finance                                      c) bank                                      d) cashier

**80. In each of the following, three of the figures and one of them does not belong to a group . Find the term:**



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

81. 105 75 45 30 ?

- a) 25                      b) 35                      c) 15                      d) 40

82. 5 8 14 ? 50

- a) 24                      b) 25                      c) 26                      d) 28

83. In a row of flowers, jasmine is at the 23rd place from one end of the row and at the 7th place from the opposite end. Rose is at the middle place in the row. What is its place ?

- a) 17th                      b) 16th                      c) 14th                      d) 15th

84. 10 boxes are placed in order of their colours as red, green, yellow, blue and purple. Which box will occur between the 6th and the 8th box from ?

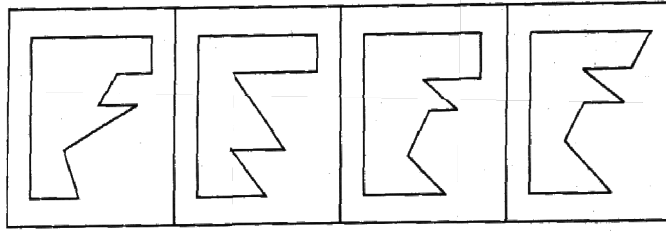
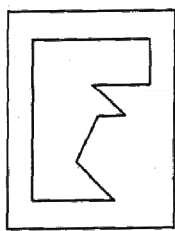
- a) red                      b) blue                      c) green                      d) yellow

**Direction :** Find the figure that matches with one of the answer figures.

**Question Figure**

**Answer Figures**

85.



- a)                      b)                      c)                      d)

**Direction :** Some words are indicated by numbers in a code. One has to find out the number for the remaining word, by comparing the given words and the code numbers:

86. In a code, the word 'SUBHASH' is represented by 12345', 'TAGAR' is represented by 65758. Then, how the word 'BHARAT' represented?

- a) 348565                      b) 354856  
c) 345856                      d) 345586

87. In a certain code, SUNNY is written as 57 and PENCIL is written as 38. How would the word NYCIL be written in the same code.

- a) 35                      b) 78                      c) 57                      d) 83

**Direction :** The number is represented by a group of symbols in a code. One has to find out the symbol which represents each of the digits.

88. If  $4 = \square$ ,  $3 = \Delta$  and  $5 = \square$  : Then what is the value of  $\square \times \Delta - \square$  ?

- a) 8                      b) 6                      c) 5                      d) 7



**Direction (Q. 89 & 90): In this question, your maturity in handling sudden situations or situations of crisis will be tested.**

89. You are not selected for participating in an acting competition in a cultural programme. What will be your reaction?
- a) Blame the selection procedure
  - b) Make more efforts next year and participate.
  - c) Never take part in the competition thereafter.
  - d) Disappoint and won't attend the cultural programme.
90. A small child staying at your neighbour broke your younger brother's toy. What will you do?
- a) I shall beat him
  - b) I shall advise him to handle the toys carefully.
  - c) I shall ask for the compensation from his parents.
  - d) I shall not keep any relationship with the neighbours.

**\* Direction Descriptive question (compulsory)**

**I) Write an essay on any one of the following.**

**10 M**

- a) Save Tree
- b) My Favourite Game
- c) The Dowry System

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