ENTRANCE EXAMINATION - VIII

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.

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

★ **DEFENCE CAREER ACADEMY**   DCA   **Entrance Examination - 2015**   P.T.O.

Q.1. to 3 : Read the following passage carefully and answer the questions choosing the correct option.

PASSAGE - I

The last twenty years have witnessed an explosion of growth opportunities for women in industry, especially at the decision making level. Today more and young women have a change to walk the competitive edge and proved that their abilities are at par with if not better than those of their male colleagues.

However, as they are beginning to storm the traditionally male bastions of management they are finding out that the roads to success are paved with difficulties. They discover very early in their career that the battle for supremacy in corporate organizations calls into play not only the forces, of power, control and dominance, but issues of gender, attitude and acceptance of women.

1. The first sentence of the passage implies that job opportunities
    (a) for women have increased.
    (b) in industry have increased.
    (c) for women at the managerial level have increased.
    (d) in the corporate sector have increased.

2. Which one of the following phrases best reflects the meaning of "male bastions"?
    (a) Management styles of males.   (b) Management areas dominated by males
    (c) Careers for males   (d) Management abilities of males.

3. According to the passage, women in high positions have
    (a) no problems at all.   (b) some problems.
    (c) Problems related to power and control.   (d) Problems related to roles of women in society.

PASSAGE - II

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

Today, most of the information on migration has come from ringing young and adult birds. Ringing is done by capturing a bird and puling on to its leg a light band of metal or plastic. The band bears a number, date, identification mark, and the address to which the finder is requested to return the where such a bird is shot, captured or found dead gives a clue to the direction and locality to which the bird has migrated.

4. In the passage, the word 'migration' has refers to the
    (a) direction in which birds fly.
    (b) height to which an adult bird can fly
    (c) flight of birds from one place of another.
    (d) young birds flying to a distant place in search of food.

5. "Ringing" is used to collect information about
    (a) the flight pattern of migratory birds.   (b) the life span of migratory bird
    (c) the food habits of migratory birds.   (d) None of the above.

6. Which is assumed to be?
    (a) Ringing is not a complicated process.
    (b) Birds can be ringed at any time of the year.
    (c) All varieties of birds can be ringed.
    (d) only some birds in a flock are ringed.

Instruction : Find the correct alternative.

7. He fell into abyss of despair.

    a) Common Noun   b) abstract Noun   c) Proper Noun   d) Collection Noun

8. The air conditioner isn't working.

    a) Verb   b) adjective   c) adverb   d) noun

9. Shilpa was going to the temple.

    a) noun   b) adjective   c) adverb   d) pronoun

10. As I look around I see the crumbling ruins of a proud civilization strewn like a vast heap of futility.

    a) adverb   b) verb   c) adjective   d) preposition

11. Gandhiji had established himself as a leader with a unique way ...... protesting exploitation and injustice.

    a) for   b) at   c) of   d) with

nstruction : Fill in the blanks with suitable alternative.

12. Rashmi looked …………. his mother as goddess.

    a) after   b) upon   c) about   d) at

13. Abhay………………now.

    a) was working   b) working   c) is working   d) worked

14. Please don't………………….. there.

    a) go   b) went   c) is going   d) gone

Instruction : Find the word with correct spellings.

15. a) included   b) encluded   c) inculded   d) none of these

16. a) entrance   b) intrance   c) entrence   d) intrence

17. a) Agreeculture   b) Agriculture   c) Agricultare   d) Agricalture

Instruction : In this section, you find a number of sentences, parts of which are printed in bold. You may also find a group of words which is printed in bold. For each bold part, four words/ phrase are listed below. Choose the word **nearest in meaning** to the bold part and blacken the corresponding space in the Answer Sheet.

18. The old man shows no sign of **infirmity** even though he is eighty years old.

    (a) lack of firmness   (b) Feebleness   (c) fickleness   (d) indolence

19. Most of the politicians these days have a large number of **toadies** around them.

    (a) servants   (b) followers   (c) sycophants   (d) professional assistants

20. The weavers have to do **monotonous** work.

    (a) autonomous   (b) irksome   (c) exhausting   (d) repetitive

21. There is not a single word that is **redundant** in the report.

    (a) unimportant   (b) not needed   (c) bombastic   (d) flowery

Instruction : In this section, each item consists of a word of a phrase which is printed in bold in the sentence given. It is followed by four words or phrases. Select the word or phrase which is closet to the opposite meaning of the bold word or phrase.

22. He was **dejected** when he heard the news.

    (a) gleeful   (b) hilarious   (c) impressed   (d) elated

23. The patient looks a little more **cheerful** this morning.
    (a) stupid   (b) energetic   (c) dull   (d) depressed

24. A crowd **gathered** quickly when the police came.
    (a) disappeared   (b) spread   (c) dispersed   (d) collected

25. This is a **trivial** matter.
    (a) important   (b) small   (c) easy   (d) difficult

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 on 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".

26. When the teachers are on strike (a) and a notice to this effect is pasted on the college gate (b) there is no sense to go there. (c) No error. (d)

27. Neither India nor Pakistan(a)have yet acquired(b)the capability to produce nuclear weapons. (c) No error. (d)

28. The manager of the bank was busy; (a) so he asked them to come and (b) see him between two to three in the afternoon. (c) No error. (d)

29. The conductor asked the passenger (a) why had he not purchased his (b) ticket for the journey (c) No error. (d)

30. I shall write (a) to you (b) when I shall reach Bangalore. (c) No error. (d)

31. If two angles are complementary, then the sum of their measures is ....
    a) 180^0 b) 90^0 c) 360^0 d) None of these

32. Two sides equal in length which type of this triangle.
    a) equilateral   b) right angle   c) scalence   d) Isosceles

33. Find the ratio of : 5 Rs. to 50 paise.
    a) 10 : 1   b) 1 : 10   c) 5 : 10   d) 5 : 2

34. Profit % = ?

    a) $\dfrac{\text{profit}}{\text{cp}} \times 100\%$ b) $\dfrac{\text{loss}}{\text{cp}} \times 100\%$ c) $\dfrac{\text{cp}}{\text{profit}} \times 100\%$ d) None of these

35. Integers are ....
    a) z = {-10, -3, -2, -1, 0, 1, 2, 3 ....}   b) z = {..............-1, 0, 1, 2 ....}
    c) z = {0, 1, 2, ...}   d) z = {-1, -2, 3, -4 ....}

36. Which of the following pairs represent the same rational number?

    a) $\dfrac{1}{3}$ and $\dfrac{2}{3}$ b) $\dfrac{-1}{4}$ and $\dfrac{-2}{4}$ c) $\dfrac{1}{2}$ and $\dfrac{4}{8}$ d) $\dfrac{13}{3}$ and $\dfrac{4}{3}$

37. The simplest form of $\dfrac{-8}{6}$ is ....

    a) $\dfrac{3}{-4}$ b) $\dfrac{-4}{3}$ c) $-\dfrac{3}{2}$ d) $\dfrac{-4}{2}$

38. Circumference of circle = ?

   a) πr b) πr^2 c) $2\pi r$ d) None of these

39. $1, 00, 000 = 10^5$ Here 10 is called .... and 5 is ....

   a) exponent, base   b) base, exponent   c) both (a) and (b)   d) None of these

40. Whicy figure have three lines of symmetry.

   a) An isosceles triangle   b) A sqare

   c) A circle   d) An equilateral triangle

41. How many faces to have solid acboid

   a) 7   b) 4   c) 5   d) 6

42. Supplement angle of 90^0 is ....

   a) 45^0 b) 90^0 c) 180^0 d) 270^0

43. In a triangle, the number of altitudes are ....

   a) 1   b) 2   c) 3   d) 4

44. In $\triangle ABC$, right angle at C, AC = 6cm, BC = 8 cm then AB is :

   a) 10 cm   b) 11 cm   c) 12 cm   d) 13 cm

45. Complete it 64% + 20% + ... = 100%.

   a) 14%   b) 16%   c) 18%   d) 20%

46. Fill in the Box : $\dfrac{5}{4} = \dfrac{-15}{\square}$

   a) -10   b) -12   c) -14   d) -16

47. $10 \ m^2 = $ .... cm^2

   a) 10   b) 100   c) 1000   d) 10000

48. The value of expression $x^2 - 5x + 2$ when x = 3 is.

   a) -4   b) 8   c) +4   d) -8

49. Find the unlike pair of terms.

   a) 7x, 12y   b) 15x, -21x   c) $q^2p, 8pq^2$ d) $m^2n, -10m^2n$

50. For any non zero a; $a^0 = $ ....

   a) 0   b) 1   c) a   d) None of these

51. Which has horizontal line of symmetry.

   a) H   b) A   c) U   d) V

52. Cube has .... Edges.

   a) 8   b) 10   c) 12   d) 14

53. Convert 21.4 in to percentage :

   a) 21.4%   b) 2.140%   c) 21.40%   d) 2140%

54. Which one is not a fraction:

   a) $\dfrac{4}{5}$ b) $\dfrac{5}{4}$ c) $\dfrac{5}{0}$ d) $\dfrac{0}{5}$

55. (-125) ÷ 25 = ...

    a) 5 b) -5 c) both a & b d) none of these

56. Full in the blanks:

    -13 + ☐ = (-15)

    a) 2 b) 3 c) -2 d) -3

57. The side of an equilateral triangle is 3.5 cm then its perimeter is ....

    a) 7 cm b) 10.5 cm c) 7.5 cm d) 3.5 cm

58. Arrange in dccending order.

    $\dfrac{2}{9}, \dfrac{3}{7}, \dfrac{3}{4}$

    a) $\dfrac{3}{4}, \dfrac{3}{7}, \dfrac{2}{9}$ b) $\dfrac{3}{4}, \dfrac{2}{9}, \dfrac{3}{7}$ c) $\dfrac{3}{7}, \dfrac{3}{4}, \dfrac{2}{9}$ d) $\dfrac{2}{9}, \dfrac{3}{7}, \dfrac{3}{4}$

59. Mena of first 5 prime numbers.

    a) 5.6 b) 5.7 c) 5.8 d) 5.9

60. Solve $\dfrac{m}{2} - 2 = 6$

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

61. In the given sequence of numbers, how many times does 3 occur immediately after 5 and before 2 ?

    5 3 2 4 6 1 5 3 2 5 4 3 5 6 1 5 3 4 7 4 3 5 1

    a) 2 b) 3 c) 4 d) 1

Direction : R A C D F B O R F B R D O O R B F M B O

62. How many times does the letter O follow R in the given squence?

    a) Four b) Three c) Two d) One

Direction : find the words that belong to the following groups:

63. tiger, lion, wolf, ...

    a) cat b) dog c) cow d) elephant

64. france, india, China, ...

    a) rupee b) Japan c) coin d) rubal

65. In each of the following, three of the figures and one of them does not belong to a group . Find the term:
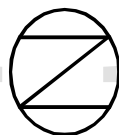
a)   b)   c)   d)

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

66. 4137, 3129, 2319, 1713, ?

    a) 711   b) 117   c) 191   d) 3712

67. 1, 5, 14, 28, ?, 71, 100

    a) 47   b) 48   c) 56   d) 57

Direction : In the following questions, the 1st words 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?
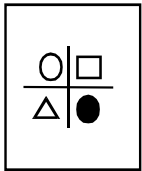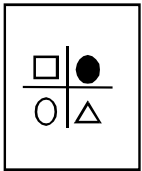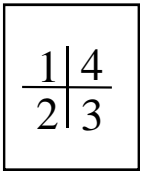
68. thermometer : temperature: : barometer: ?
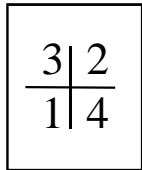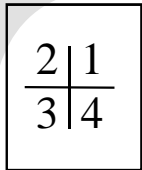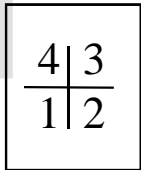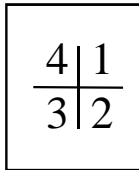
    a) pressure   b) distance   c) length   d) weight

69. crow : caw: : frog: ?

    a) jump   b) hiss   c) croak   d) grunt

Direction : In each of the question given below, there is a certain relationship between the first and second figures. The same relationship exists between the third and fourth figures. Find the relation and choose the correct answer to replace the question mark :

70. **Question figure :**

    Answer figure :
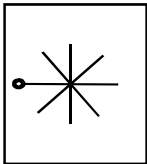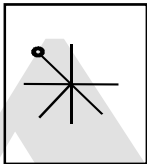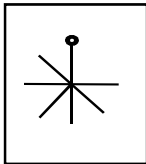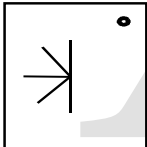

            a)   b)   c)   d)
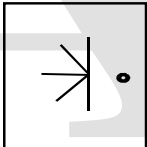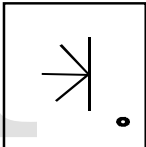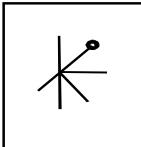
Direction : In the following question find the correct alternative to replace the question mark :

71. -1, 1, 5, 11, ?

    a) 19   b) 17   c) 15   d) 23

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

72. **Question figure :**

    Answer figure :

            a)   b)   c)   d)

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

73. If 4 = □, 3 = △ and 5 = ⧄ : Then what is the value of □ × △ - ⧄

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

Direction : Identify the wrong term in the series :

74. ADC, FIH, KNL, PSR, UXW.

    a) ADC   b) FIH   c) KNL   d) PSR

Direction : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and fill in the blank spaces.

75. 2, 3 5, 7, 11, __, 17

    a) 12   b) 13   c) 14   d) 15

76. 6, 11, 21, 36, 56, ___

    a) 42   b) 51   c) 81   d) 91

Direction : In the following series, which letters should replace the blank space or question mark ?

77. a b ? a b a a b a a ? a a b a a b ?

    a) b b a   b) b b b   c) a b a   d) a a a

78. ab - bcac - bab _ _ cacab

    a) cacb   b) accb   c) ccab   d) abac

Direction : Which symbol should occur in the places of question mark below ?
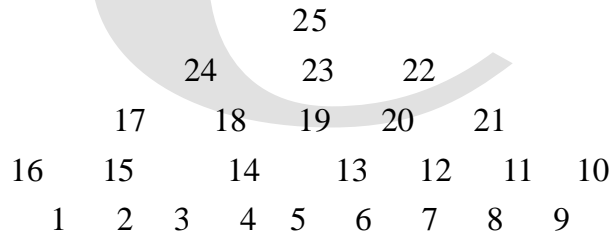
79. □ + ○ △ + ○ △ □ ○ ? + △ ? ○ □ + ○ △

    a) △ □   b) □△   c) ○ +   d) + △

80. ✹✹□✹□□✹?□? ✹✹□

    a) ✹□✹   b) □□✹   c) □✹□   d) ✹✹□

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

```
                        25
                   24    23    22
              17    18   19   20    21
          16    15    14    13   12   11   10
            1    2    3    4  5   6   7   8   9
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81. 24 : 22 : : 17 : ?

    a) 21   b) 16   c) 9   d) 10

Direction : Study the pyramid given below and answer questions upon it:
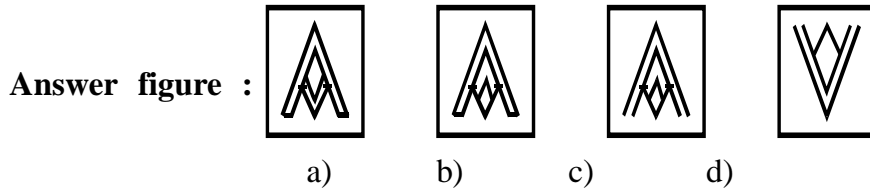
```
                        K
                   L    M    N
              S    R    Q    P    O
          T    U    V    W    X    Y    A
        J    I    H    G    F    E    D    C    B
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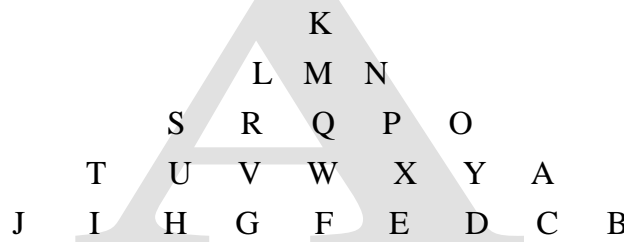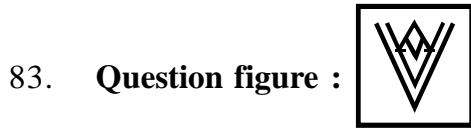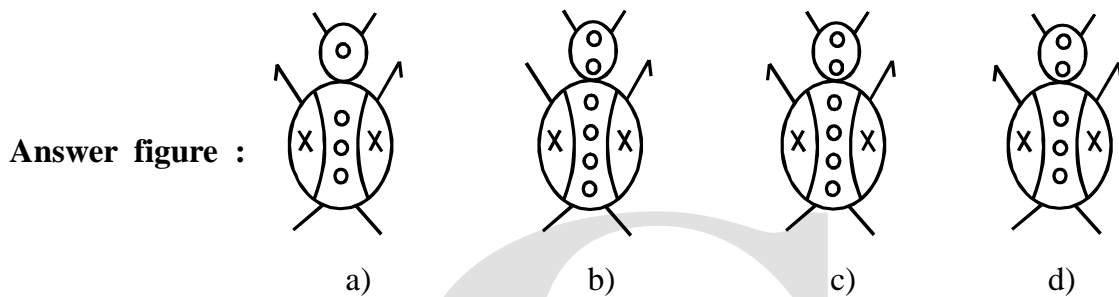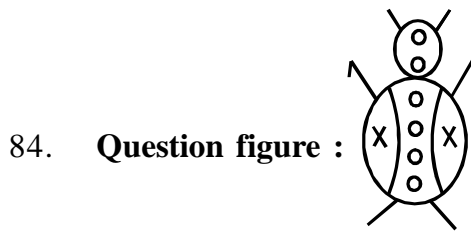
82. TSU : AOY : : JTI : ?

    a) JUH   b) BAC   c) CAD   d) LSR

Direction : Find out the water reflection of a question figure from the given answer figures :

83. **Question figure :**

Answer figure :

    a)   b)   c)   d)

Direction : Find the mirror image for the following question figure from the answer figures :

84. **Question figure :**

Answer figure :

    a)   b)   c)   d)

Direction : In this type of question, ages of two or more persons are compared in terms of multiples or differences one has to find out one of the person's age.

85. Ketaki is elder by 15 years than Komal. 6 years later, the sum of their ages will be 33 years. What is Ketaki's age today?

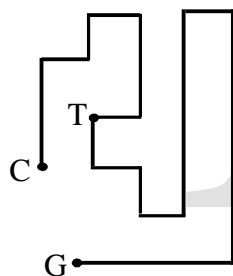   a) 24 years   b) 25 years   c) 18 years   d) 23 years

86 My brother is older than me by 9 years. He is 21 years old. What is my age?

    a) 12 years   b) 21 years   c) 9 years   d) 30 years

Direction :The path from C to G is shown in the adjoining figure. Observe the figure and answer the following questions.

87. While going from C to G. how many right turns does ohne take ?

    a) Nine

    b) Eight

    c) Seven

    d) Six

88. Dimple likes all types of fruits. Shabana likes all fruits except bananas. Mary likes only apples. Rekha likes all the fruits. Except for apples and guavas. Which of the girls like bananas?

a) Dimple and Mary   b) Dimple and Rekha   c) Dimple and Shabana   d) Rekaha and Shabana

89. On the west side of a bank, at a distance of 2 km, is a garden. To the South of the garden. at a distance of 3 km, is a school. To the east side of the school, at a distance of 2km, is a gymnasium. What is the distance between the gymnasium and the bank?

a) 4 km   b) 7 km   c) 2 km   d) 3 km

90. **Directon : 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 question:**
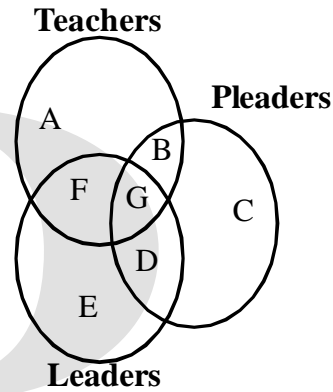
Which letter represents the number of pleaders, Who are neither teachers nor leaders ?

a) D   b) B   c) G   d) C

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*   Descriptive question (compulsory)

I)   Write an essay on any one of the following.   **5M**

a) Save water

b) My Favourite Book

c) The Corruption

II)   Expansion of an idea-   **5M**

No pain, No gain.

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