DCA ENTRANCE EXAMINTAION -V

DEFENCE CAREER ACADEMY, AURANGABAD.

As an ISO 9001 : 2008 - Certified

ENT : 2017-2018 TIME : 2.30 Hrs.	**MATH & GAT**	Sr. No. MAXIMUM MARKS : 150

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

1. Do not carry any book, paper or any other material with you inside the Examination Hall.

2. Carry only writing material with you in the Examination Hall.

3. Keep the Hall Ticket with you ready for scrutiny.

4. Result of this Examination will be displayed on the Notice Board. The Result Sheet will include the successful/ qualified candidates ONLY.

5. All successful candidates indicated on the list shall present themselves for the invetview on the same day.

6. This Test Booklet contains 140 items (Questions). Question No. 1 to 140 (MCQ) carry 1 mark each and Question No. 141 (Descriptive) carries 10 marks. You have to select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, Choose Only One response for each item.

7. All the answers must be marked on the Answer Sheet only. Do not write anything on this Test Booklet.

8. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR QUESTION ETC. IF SO, GET IT REPLACED BY A NEW ONE.

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

★ **DEFENCE CAREER ACADEMY** DCA **Entrance Examination - 2017** P.T.O.

9.   Ask for a separate paper for rough work.

10.   Read the questions carefully, Remember, answers are to be indicated in the Answer Sheet Only. Return the Test Booklet, Rough work papers and the Answer Sheet immediately when asked to do so. You are NOT permitted to take away with you any paper concerning the Examination.

ANSWER SHEET

11.   The Answer Sheet contains 140 counts, each subdivided in four { (a) (b) (c) (d)} subdivisions for indicating the   correct choice of answers. After having selected the correct choice from the test   Booklet, you should indicate that choice by completely blackening the respective circle, DO NOT merely cross the circle. You should indicate correct answer by blackening ONLY ONE circle in each answer. Any answer having more than ONE blackened circle will be treated as WRONG answer.

12.   Before starting the answering ensure that you have filled the complete information at the top of this Answer Sheet. Incomplete Answer Sheet will be regarded as invalid.

THANK YOU AND BEST OF LUCK

1. How many faces are there in a brick?

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

2. How many edges are there in a brick?

    a) 5   b) 10   c) 8   d) 12

3. How many corners are there in a brick?

    a) 3   b) 5   c) 12   d) 8

4. 7 metre = ... centimeter.

    a) 70   b) 700   c) 7000   d)

5. 12 kilometer = ... metre.

    a) 120   b) 1200   c) 12000   d) 0.12

6. 2 centimetre = ... milimetre.

    a) 20   b) 200   c) 2000   d) 0.2

7. 4548 + 2429 = ...

    a) 6978   b) 6977   c) 6979   d) 6887

8. 5381 + 4325 = ...

    a) 9076   b) 9708   c) 9706   d) 9607

9. 8299 - 4839 = ...

    a) 3460   b) 3640   c) 3046   d) 3461

10. 6456 - 3245 = ...

    a) 3113   b) 3122   c) 3212   d) 3211

11. Largest number using digit 8, 3, 7, 1

    a) 1378   b) 3781   c) 7813   d) 8731

12. Smallest number using digit 2, 9, 5, 1.

    a) 1259   b) 9521   c) 9512   d) 2159

13. Largest four digit number.

    a) 1000   b) 9999   c) 8999   d) 9998

14. Smallest three digit number.

    a) 111   b) 999   c) 899   d) 100

15. 1 hour = ... minutes.

    a) 60   b) 24   c) 30   d) 15

16. 1 minute = ... second.

    a) 20   b) 30   c) 40   d) 60

17. No. of days in June?

 a) 29   b) 30   c) 31   d) 28

18. Match box have how many faces?

 a) 4   b) 6   c) 8   d) 12

19. 9 Rupees = ... paise.

 a) 90   b) 900   c) 9000   d) 09

20. 12 Litre = ... millilitre.

 a) 12000   b) 120   c) 1200   d) 0.12

21. If the diameter of a circle is 10 cm, its radius is ....

 a) 20 cm   b) 5 cm   c) 5 mm   d) 20 mm

22. The longest chord of a circle is its............

 a) radius   b) diameter   c) arc   d) circumterence

23. The numerator in $\dfrac{3}{7}$

 a) 3   b) 7   c) 3.7   d) 7.3

24. The numerator in $\dfrac{11}{13}$

 a) 13   b) 11   c) 13.11   d) 11.13

25. Fraction one-fourth is.

 a) $\dfrac{1}{4}$ b) $\dfrac{4}{1}$ c) 1.4   d) 4.1

26. $\dfrac{2}{3}$ = ...

 a) $\dfrac{3}{9}$ b) $\dfrac{6}{9}$ c) $\dfrac{9}{6}$ d) $\dfrac{9}{3}$

27. $\dfrac{4}{7}$ = ...

 a) $\dfrac{8}{21}$ b) $\dfrac{12}{28}$ c) $\dfrac{16}{28}$ d) $\dfrac{6}{15}$

28. Fractional number whose numerator is 7 & denominator is 17

 a) $\dfrac{17}{7}$ b) $\dfrac{7}{17}$ c) 7.17   d) 17.7

29. Fractional number whose numerator is 7 & denominator is 10.

    a) $\dfrac{7}{10}$ b) $\dfrac{10}{7}$ c) 7.10   d) 10.7

30. $\dfrac{3}{7} = \dfrac{}{21}$

    a) 6   b) 5   c) 8   d) 9

31. $\dfrac{......}{7} = \dfrac{20}{35}$

    a) 2   b) 6   c) 4   d) 8

32. $\dfrac{2}{4} + \dfrac{1}{4} = $ ....

    a) $\dfrac{3}{4}$ b) $\dfrac{3}{8}$ c) $\dfrac{3}{16}$ d) $\dfrac{8}{16}$

33. $\dfrac{6}{8} + \dfrac{4}{8} = $ ....

    a) $\dfrac{10}{8}$ b) $\dfrac{2}{8}$ c) $\dfrac{3}{8}$ d) $\dfrac{2}{16}$

34. 1, 2, 4, 7, 11, ...

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

35. 1, 4, 9, 16, ...

    a) 21   b) 22   c) 23   d) 25

36. $1432 \times 5 = $ ....

    a) 1670   b) 6170   c) 7610   d) 7160

37. $5349 \times 4 = $ ....

    a) 21396   b) 21936   c) 21963   d) 21639

38. $24 \times 100 = $ ....

    a) 240   b) 2400   c) 24000   d) 0.24

39. $89 \times 1000 = $ ....

    a) 890   b) 8900   c) 89000   d) 890000

40. $4\overline{)328}$ = ...

    a) 82   b) 84   c) 83   d) 80

41. $3\overline{)3285}$ = ...
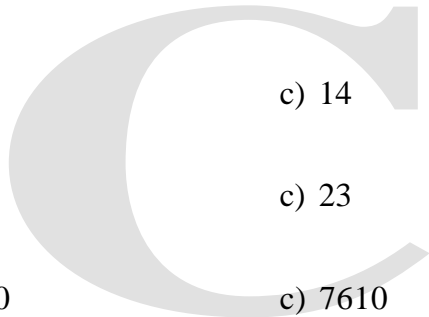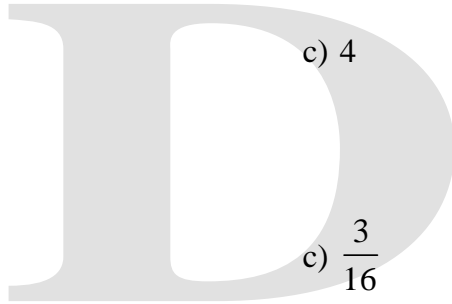
    a) 1096   b) 1094   c) 1059   d) 1095

42. 5 kg = ... gram.

   a) 500   b) 5000   c) 50   d) 5

43. Perimeter of square whose sides are 10 cm.

   a) 20 cm   b) 30 cm   c) 40 cm   d) 100 cm

44. Perimeter of rectangle whose length 18 cm. & breadth 12 cm.

   a) 60 cm.   b) 36 cm.   c) 24 cm.   d) 216 cm.

45. Preimeter of triangle whose sides are 15 cm, 12 cm & 8 cm.

   a) 35cm.   b) 180 cm.   c) 23 cm.   d) 27 cm.

46. Half meter = ... cm

   a) 500   b) 5000   c) 50   d) 0.5

47. If the cost of 1000 brick is 4200 then cost of 500 brick is ....

   a) 2200   b) 8400   c) 2000   d) 2100

48. Suitable unit for measuring length of pencil.....

   a) centimeter   b) metre   c) kilometre   d) none of these

49. 750 cm = ... m.

   a) 7500   b) 75   c) 7.5   d) 0.75

50. 8500 m = ... km.

   a) 85   b) 8.5   c) 850   d) 0.85

51. 640+89 - 24 = ...

   a) 705   b) 706   c) 704   d) 703

52. The number 1 more than 999 = ...

   a) 998   b) 997   c) 10001   d) 1000

53.`The number 1 less than 10,000

   a) 9998   b) 9999   c) 10001   d) 1000

54. .... + 5998 = 7259

   a) 1261   b) 1271   c) 1276   d) 1281

55. 9000 + ... = 9999

   a) 909   b) 919   c) 999   d) 998

56. 1000 - 1 = ...

   a) 999   b) 998   c) 1001   d) 989

57. Correct time 3 hours after 11 a.m.

   a) 1 p.m.   b) 2 p.m.   c) 2 a.m.   d) 3 p.m.

58. Correct time 5 hour before 3 p.m.

   a) 9 p.m.   b) 10 p.m.   c) 10 a.m.   d) 9 a.m.

59. Time duration between 8. a.m. and 11.30 a.m.

   a) 2 hr 30 min   b) 3 hr 30 min   c) 4 hr 30 min.   d) 3 hr

60. Time duration between 12.30 pm and 3.40 pm.

   a) 3 hr 10 min.   b) 2 hr 10 min.   c) 3 hr   d) 2 hr

61. 9 days after september 11

   a) 20 September   b) 19 September   c) 21 September   d) 18 September

62. 3 dyas before August 8

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

63. 15 × 9 = ...

   a) 145   b) 135   c) 125   d) 130

64. There are 60 mangoes $\frac{1}{2}$ of them are ripe. How many mangoes are ripe?

   a) 120   b) 90   c) 30   d) 15

65. There are 20 stars. A quarter of them are ard How many stars are red?

   a) 40   b) 5   c) 10   d) 25

66. $\frac{3}{4}$ metre = ... cm.

   a) 75   b) 50   c) 125   d) 25

67. How many centre circle have?

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

68. Length of radius = ... × diametre of circle.

   a) $\frac{1}{4}$ b) $\frac{1}{2}$ c) $\frac{1}{3}$ d) $\frac{3}{4}$

69. 1 O' clock in afternoon.

   a) 1 a.m.   b) 1 p.m.   c) Both (a) & (b)   d) None of these

70. 8 O'Clock in morning.

   a) 8 a.m.   b) 8 p.m.   c) Both (a) & (b)   d) None of these

71. 10 Aug 2007

   a) 10/09/2007   b) 10/10/2007   c) 10/08/2007   d) None of these

72. 20/05/2016

   a) 20 Apr. 2006   b) 20 May 2006   c) 20 June 2006   d) 20 Aug. 2006

73. 1 week = ... days.

   a) 7   b) 8   c) 9   d) 10

74. Twelve thousand five hundred seven.

   a) 12570   b) 12750   c) 12507   d) 12705

75. 13 × 9 = ...

   a) 127   b) 137   c) 117   d) 107

* **Q.76. to 79 : Read the following passage carefully and answer the questions choosing the correct option.**

PASSAGE - I

The milkman's cow was in a bad mood. It sat in the middle of the road and refused to move. The milkman begged the cow to get up. "The children are waiting for their milk to help them grow strong. Please get up," he pleaded. He pulled and tugged and prayed. But the cow wasn't going anywhere that day.

76. The milkman's cow was ------------------
    a) in a good mood   b) furious   c) in a bad mood   d) none of these

77. ------------------- begged the cow to get up.
    a) policeman   b) the farmer   c) the milkman   d) both (a) & (c)

78. The children are waiting for --------------
    a) ice-cream   b) birthday cake c) their milk   d) none of these

79. But the cow wasn't -------------------- that day.
    a) going to farm   b) working   c) going anywhere   d) none of these

* **Q.80. to 83 : Read the following passage carefully and answer the questions choosing the correct option.**

PASSAGE - II

I had a little pony.
His name was Dapple-grey,
I lent him to a lady,
To ride a mile away.
She whipped him, she lashed him,
She drove him through the mire.
I wouldn't lend my poly now,
For all the lady's hire.

80. I had a little ----------------
    a) puppy   b) fawn   c) pony   d) drove

81. His name was ----------------
    a) dapple - green   b) dapple - grey c) dapple - sky   d) poly

82. I lent him to ----------------------
    a) a gentleman   b) a boy   c) a lady   d) mile

83. To ride -------------- away.
    a) ten miles   b) a mile   c) two miles   d) a lady

* **Direction : Answer the following questions by identifying noun.**

84. Ramesh saw me in the market
    a) saw   b) me   c) Ramesh   d) the

85. We are Indians
    a) Indians   b) we   c) are   d) none of these

* **Direction :Identify the Gender going opposite.**

86. Peacock

    a) hen   b) peahen   c) mare   d) cock

87. Horse

    a) mare   b) cow   c) deer   d) vixen

* **Direction :Identify the correct 'Plural' form of the words given below.**

88. Woman

    a) womans   b) women   c) womens   d) wman

89. Batch

    a) batches   b) batchs   c) betch   d) batch's

90. Wolf

    a) wolfs   b) wolves   c) wolfes   d) wolf's

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

91. a) Mobile   b) mobail   c) mobael   d) mobial

92. a) Schoul   b) school   c) schuol   d) shcool

* **Direction :Give the synonyms of :-**

93. Boy

    a) coy   b) kid   c) lad   d) man

94. Like

    a) hate   b) make   c) leak   d) love

* **Direction :Identify the pronoun.**

95. I like to make kite.

    a) make   b) like   c) I   d) kite

* **Direction :Identify the verb.**

96. We live our country.

    a) love   b) our   c) we   d) country

* **Direction :Give the Antonyms of :-**

97. Day

    a) today   b) tomorrow   c) yesterday   d) night

98. Easy

    a) rough   b) soft   c) hard   d) simple

* **Direction :Identify the adjectives from the followings.**

99. a) flower   b) good   c) home   d) child

100. a) drink   b) soft   c) joule   d) cup

101. If FRAGRANCE is written as SBHSBODFG, how can IMPOSING be written?

a) NQPTJHOJ   b) NQPTJOHI   c) NQTPJOHJ   d) NQPTJOHJ

Direction : In each of the following questions, four words have been given, out of which three are alike in some manner and one is different. Choose the odd one.

102. a) Feathers   b) Tentacles   c) Scales   d) Pseudopodia

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.

103. 3, 7, 15, 31, 63, (.........)

a) 92   b) 115   c) 127   d) 131

104. A man walks 1 km towards East and then he turns to south and walks 5 km. Again he turns to East and walks 2 km, after this he turns to North and walks 9 km. Now, how far is he from his starting point?

a) 3 km   b) 4 km   c) 5 km   d) 7 km

Direction : In each of the following questions, there is a certain relationship between two given words on one side of : :and one word is given on another side of : : while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

105. Fear : Threat : : Anger : ?

a) Compulsion   b) Panic   c) Provocation   d) Force

106. ———— have holes instead of external ears.

a) Tiger   b) Rat   c) Lizard   d) Lion

107. ———— is an extinct animal.

a) Dodo   b) Tiger   c) Rhino   d) Sparrow

108. Elephants love to play with water & ————

a) Fruit   b) Friend   c) Mud   d) Branches

109. Flowers of ———— do not have sweet smell.

a) Periwinkle   b) champa   c) marigold   d) Rose

110. ———— Flower that bloom only for a few months in the year.

a) Jasmine   b) Basil   c) China rose   d) Rose

111. Identify which of the vegetable can spoil easily.

a) Potato   b) Cabbage   c) Pumpkin   d) spinach

112. ———— among the following is an example of soluble impurity.

a) ink   b) soil   c) plastic   d) wood

113. ———— is an example of aquatic plant.

a) jasmine   b) basil   c) mint   d) lotus

114. All rivers end into ——————

    a) ocean   b) lake   c) sea   d) pond

115. Honey bees live in a ——————

    a) comb   b) clean   c) flower   d) hole

116. —————— do not build nest.

    a) sparrow   b) woodpecker   c) cuckoo   d) crow

117. —————— designs our home

    a) architect   b) electrician   c) engineer   d) comp enter

118. Camel carts use in ——————

    a) forests   b) snow   c) desert   d) rocky mountains

119. —————— is small wooden boat.

    a) ship   b) vallam   c) tarafa   d) shikara

120. A —————— helps a trolley to move across the rope.

    a) pulley   b) truck   c) carrier   d) crane

121. In Rajasthan —————— are used for Travelling

    a) Camel   b) Horse   c) ox   d) Donkey.

122. The —————— of the elephant works like a fan.

    a) Ear   b) Leg   c) Nose   d) Eyes.

123. People in village travel by——————

    a) Buses   b) Train   c) Boot   d) Taxi

124. The onion crop is sowed in the month of ——————

    a) June   b) July   c) August   d) September

125. Bullock-cart commonly seen——————

    a) Village   b) City   c) Park   d) Market

126. Trees that are planted in garden taken care by a ——————

    a) Gardener   b) Cobbler   c) Farmer   d) Teacher

127. Some trains have —————— on which passengers on a long Journey can sleep.

    a) Berths   b) Bed   c) Chair   d) None of this

128. People in different state speak —————— languages.

    a) Different   b) Same   c) English   d) None of this

129. Island is a piece of land surrounded by —————— an all sides

    a) Water   b) Land   c) Floors   d) Fruits

130. Girls should be married offer———— year

    a) 18   b) 21   c) 20   d) 16

131. The first Indian woman to get the Nobel prize for peace.

    a) Indira Gandhi   b) Mother Teresa   c) M.S. Subbulakshmi d) Kalpna Chavla

132. Roots absorb ————————— from the soil.

    a) Carbon Dioxide   b) Water & Mineral c) Nitrogen   d) Oxygen.

133. ———————— is the smallest planet.

    a) Mercury   b) Neptune   c) Mars   d) Earth

134. ———————— discovered the 'New World'

    a) Marco Polo   b) Vosco Da Gama

    c) Christopher Columbus   d) Ferdinand Magellan

135. The famous woman leader of the Revolt of 1857

    a) Chand Bibi   b) Rani Lakshmibai

    c) Rani Durgawati   d) Rani Victoriya.

136. ———————— is my state name.

    a) Maharashtra   b) Rajasthan   c) Karnataka   d) Gujarat

137. ———————— is the Longest river in India.

    a) Kaveri   b) Ganga   c) Sindhu   d) Godavari

138. We get wool from —————

    a) Buffalos   b) Yaks   c) Zebras   d) Hen

139. The ————————— makes the soil fertile.

    a) Earthworm   b) Snake   c) Rat   d) Frog

140. ————————— is a medicinal plant.

    a) Neem   b) Peepal   c) Babol   d) Rose

PART - III ESSAY

Direction : Write an essay on one of the followings.   **10 M**

    1) My School

    2) The cow

    3) My Mother

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