| DO NOT OPEN THIS BOOKLET UNTI L YOU ARE ASKED TO DO SO |  |  |
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| DCAENTRANCEEXAMINTAION -V DEFENCE CAREERACADEMY. |  |  |
| Hars AURANGABAD. |  | $\mathrm{Di}^{\text {fied }}$ |
| ENT : 2017-2018 TIME : 2.30 Hrs. | MATH \& GAT | Sr. No. <br> 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.
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 Sheetimmediately 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 correctanswer by blackening ONLY ONE circle in each answer. Any answer having more than ONE blackened circle will be treated as W RONG 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. Write the following number in figure. Ten lakh
a) 10,000
b) $10,00,000$
c) $1,00,000$
d) 100,000
2. Write following number in words. 15, 245
a) One lakh two hundred fourty five
b) Fifteen thousand two hundred fourty five
c) Fiften Lakh fourty five.
d) None of these
3. $27,94,539 \square 27,49,935$
a) $>$
b) <
c) $=$
d) $\leq$
4. Arrange the number in desending order. 25, 64, 507; 25, 63, 201; 25, 69, 850
a) $25,69,850 ; 25,64,507 ; 25,63,850$
b) $25,64,507 ; 25,63,850,25,69,850$
c) $25,69,850,25,64,507,25,63,850$
d) None of these
5. $8,57,00,07,005$
a) $8000,000,000+500,00,00,00+70000000+5+700$
b) $8000000+500000+700+500$
c) $8000000000+50000+7000+7000+50$
d) $800000+500000+7000+5+70$
6. 

 How many right angle are there in given figure ?
a) 1
b) 2
c) 3
d) 04
7. Find out the situation when a right angle is formed.
a) 6 PM
b) 9 PM
c) 4 PM
d) 12 AM
8. When clock show time 3. PM. angle is
a) obtuse angle
b) stright angle
c) acute angle
d) right angles
9. A right angle measures $\square$ degrees.
a) $120^{\circ}$
b) $60^{\circ}$
c) $180^{0}$
d) $90^{\circ}$
10.
 How many angles can you find in the pictures?
a) 10
b) 8
c) 18
d) 16
11.


Find the ratio
a) $\frac{2}{6}$
b) $\frac{1}{4}$
c) $\frac{3}{8}$
d) $\frac{4}{7}$
12. $\frac{1}{3}$ of $\mathbf{1 5}$ lines are $\square$ lines.
a) 2
b) 3
c) 5
d) 4
13. $\frac{2}{3}+\frac{5}{3}=\square$
a) $\frac{7}{6}$
b) $\frac{7}{3}$
c) $\frac{3}{3}$
d) $\frac{1}{3}$
14. $5 \frac{1}{3}=$
a) $\frac{6}{3}$
b) $\frac{9}{3}$
c) $\frac{16}{3}$
d) $\frac{1}{15}$
15. Letter B has $\square$ line of symmetry.
a) 1
b) 2
c) 3
d) 4
16. An equilateral triangle has $\qquad$ lines of symmetry.
a) 1
b) 2
c) 3
d) 4
17. The smallest factor of 16 is $\qquad$
a) 2
b) 4
c) 8
d) 1
18. Which is not factor of 21
a) 1
b) 5
c) 3
d) 7
19. $6,12,18,24$; $\square$ Complete the number series.
a) 32
b) 28
c) 30
d)
20. HCF of $75,50,125$ is $\qquad$
a) 20
b) 50
c) 75
d) 25
21. LCM of $26,14,91$ is
a) 182
b) 180
c) 14
d) 91
22. Which two numbers gives the products 383240
a) 8156 and 45
b) 5896 and 65
c) 9842 and 25
d) 6425 and 12
23. Express $\frac{3}{10}$ of 3 kg in grams.
a) 300 gm
b) 600 gm
c) 900 gm
d) 2100 gm
24. 11, 121, 1333 $\qquad$ complete the given pattern.
a) 141
b) 1441
c) 14441
d) 144
25. $8 \times 9=$ $\qquad$
a) 70
b) 63
c) 54
d) 72
26. Factor of 42
a) 9
b) 6
c) 4
d) 8
27. Biggest number by using digits $3,5,8,9$
a) 9538
b) 9853
c) 3589
d) 5893
28. Smallest 4 digit number by using number $3,0,5,6$
a) 0356
b) 6503
c) 3056
d) 5603
29. $1,3,5,7,9 \ldots$. what will be the next number.
a) 13
b) 11
c) 15
d) 7
30. $1,3,5,7,11,13$ $\qquad$ complete the pattern.
a) 17
b) 15
c) 19
d) 14
31. $56034+3412$
a) 59446
b) 89446
c) 90152
d) 69436
32. $16 \times 9=$ $\square$
a) 144
b) 136
c) 138
d) 134
33. $2000,1000,500,250$, $\qquad$ complete the number pattern.
a) 100
b) 200
c) 125
d) $62 \frac{5}{10}$
34. Opposite direction of North.
a) East
b) West
c) South
d) None of these
35. How many fuces are there in cube?
a) 5
b) 8
c) 6
d) 12
36. 1 metre $=$ $\qquad$ cm
a) 100
b) 10
c) 1000
d) 2
37. $1 \mathrm{~kg}=$ $\qquad$ gram.
a) 1000
b) 100
c) 500
d) 200
38. $2 \mathrm{hr} 40 \mathrm{~min}=$ $\qquad$ minute
a) 240
b) 100
c) 80
d) 42
39. $\frac{18}{42}=$ $\qquad$
a) $\frac{3}{7}$
b) $\frac{9}{7}$
c) $\frac{4}{7}$
d) $\frac{2}{7}$
40. $3 \mathrm{~m}=$ cm .
a) 300 cm
b) 400 cm
c) 300 cm
d) 30 cm
41. Length $50 \mathrm{~m} \times$ wedth $15 \mathrm{~m}=$ $\qquad$ m (length of boundry)
a) 100 m
b) 150 m
c) 7500 m
d) 130 m
42. Area of square is $\qquad$ (side - a)
a) $a^{2}$
b) 2 a
c) $4 a$
d) $a^{3}$
43. $1345 \times 6$
a) 6070
b) 8070
c) 8076
d) 8706
44. $49 \times 51$
a) 3599
b) 4599
c) 2599
d) 9529
45. $24 \times 100000$
a) 40000
b) 24000
c) 24000
d) 2400000
46. $(12+1) \times 2=$ $\square$
a) 25
b) 24
c) 27
d) 26
47. $6000=30 \times$ $\square$
a) 200
b) 20
c) 300
d) 600
48. $10 \times 5 \times 3=\square$
a) 130
b) 150
c) 510
d) 300
49. $463 \div 77$
a) 9
b) 6
c) 8
d) 4
50. The valume of 2 cm cube is $\square$
a) 18
b) 15
c) 8
d) 6
51. The area of circle is (radius) 7 cm .
a) $164 \mathrm{~cm}^{2}$
b) $154 \mathrm{~cm}^{2}$
c) $144 \mathrm{~cm}^{2}$
d) $22 \mathrm{~cm}^{2}$
52. $5 \times 243$
a) 1205
b) 1015
c) 643
d) 1215
53.'9656 $\div 2$
a) 4323
b) 4823
c) 4828
d) 4833
54. $14 \div 3$ remainder is.
a) 4
b) 2
c) 1
d) 0
55. Identify given shape
a) Square
b) reactangle
c) cube

d) cone
56. Price of 1 pen is 10 what is price of 5 pen.
a) 5
b) 30
c) 50
d) 10
57. 1 metre $=$ $\qquad$ milimeters.
a) 10
b) 100
c) 0.10
d) 1000
58. $1500 \mathrm{~m}+2 \mathrm{~km}=$ ? $\qquad$ metre
a) 2500
b) 3500
c) 153
d) 152 .
59. Smallest three digit number
a) 999
b) 900
c) 100
d) 102
60. Biggest 4 digit number.
a) 1000
b) 9000
c) 9999
d) 2599
61. $5962 \times 11=$
a) 615582
b) 65582
c) 95625
d) 625582
62. $9656 \div 8=$
a) 127
b) 1207
c) 1027
d) 182
63. $80 \div \square=40$
a) 20
b) 2
c) 3
d) 20
64. Solve $[(35 \times 2)+5] \div 25=$
a) 3
b) 4
c) 8
d) 16
65. In leap year there are
....... days in february.
a) 28
b) 29
c) 30
d) 31
66. $36=12 \times \square$
a) 2
b) 3
c) 4
d) 9
67. A cone has $\qquad$ line of symmetry.
a) 1
b) 2
c) 3
d) 4
68. $56299+5698+312+2=$ ?
a) 62412
b) 62411
c) 32426
d) 63423
69. $69000-5689=$ ?
a) 54211
b) 5421
c) 54,3111
d) 40000
70. $32 \mathrm{~F}=$ ? ${ }^{\circ} \mathrm{C}$
a) $32^{\circ} \mathrm{C}$
b) $0^{\circ} \mathrm{C}$
c) $100^{\circ} \mathrm{C}$
d) $60^{\circ} \mathrm{C}$
71. $100^{\circ} \mathrm{C}=$ ? F
a) 312
b) 100
c) 32
d) 212
72. $\frac{1}{4}$ Part 36 is $=\square$
a) 12
b) 9
c) 144
d) 36
73. Smallest three digit number + biggest 2 digit number?
a) 2098
b) 199
c) 999
d) 190
74. If side of square is 5 then what is difference between area and periameter $\square$
a) 35
b) 5
c) 45
d) 30
75. $22+5+3-2$
a) 42
b) 31
c) 36
d) 28

## PART - II GAT

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


## PASSAGE - I

One day, when I was going towards my boat, I was surprised to see the footprint of a man on lthe sand. I stood amazed! I listened; I looked around me : I could neither hear nor see anything. I went up higher to look down; I went up the shore and down the shore, but it was no good; I could find no other footprint but that one. I went to it again to see if there were any more footprints and to tell if it had been my imagination. But I was not mistaken, for there was exactly the print of a foot - toes, heel, every part of a foot. I could not imagine how it came there.
76. I was going toward $\qquad$
a) my boat
b) my car
c) my house
d) my farm
77. I was surprised to see $\qquad$
a) the footprint of a man
b) the footprint of a tiger
c) the footprint of a beast
d) the footprint of a deer.
78. I could neither $\qquad$ nor $\qquad$ anything.
a) take, give
b) sell, buy
c) hear, see
d) read, write.
79. It was a print of a $\qquad$
a) toes
b) heel
c) leg
d) foot
Q.80. to 83 : Read the following passage carefully and answer the questions choosing the correct option.

## PASSAGE - II

Crying only a little bit
is no use. You must cry
until your pillow is soaked!
Then you can jump in the shower and splash-splash-splash!
80. $\qquad$ is no use.
a) mere passing in exam
b) killing time throughout day
c) wait for others
d) crying only a little bit
81. You must cry until
a) you get wet allover
b) your pillow is soaked
c) your demand get fulfilled
d) you get money.
82. poet says one can ------------ in the shower.
a) run
b) dance
c) soak
d) jump.
83. poem tells us about -------------
a) laughing
b) sleeping
c) working
d) crying

* Direction: Answer the following questions by identifying noun.

84. Mohan studies one hour daily.
a) studies
b) daily
c) Mohan
d) one
85. It runs on battery.
a) It
b) runs
c) on
d) battery

* Direction: Identify the gender going opposite

86. Fox
a) lioness
b) tigress
c) vixon
d) mare
87. Bull
a) cow
b) bitch
c) hen
d) doe

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

88. Knife
a) knifes
b) knifves
c) knives
d) knie's
89. Buffalo
a) buffalos
b) buffalo's
c) buffaloves
d) buffaloes
90. Mouse
a) mouses
b) mouse's
c) mousess
d) mice

* Direction: Do as direced :-

91. Find the word with correct spellings
a) satellite
b) satellight
c) satelite
d) sattelite
b) primary
c) primery
d) primerry
92. a) praimary

* Direction:Give the synonyms of :-

93. Same
a) love
b) equal
c) like
d) lame
94. Change
a) charge
b) modify
c) create
d) make

* Direction: Identify the pronoun.

95. Ram and Rahim have paid their charges.
a) Rahim
b) paid
c) their
d) charges

* Direction: Identify the verb.

96. Cricket is favourite in India.
a) Cricket
b) is
c) favourite
d) India

* Direction: Give the Antonyms of :-

97. Easy
a) simple
b) difficult
c) different
d) lucid
98. Short
a) tall
b) length
c) high
d) height
a) lubricant
b) good-tempered
c) wish
d) blessings
100.a) juice
b) cold
c) movement
d) tale
99. In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?
a) QDFHS
b) SDFHS
c) SHFDQ
d) UJHFS

* 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) Tortoise
b) Duck
c) Snake
d) Whale

* 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. 2, 5, 9, (....), 20, 27
a) 12
b) 11
c) 15
d) 19
104. Starting from a point P, Sachin walked 20 metres towards South. He turned left and walked 30 metres. He then turned left and walked 20 metres. He again turned left and walked 40 metres and reached a point Q . How far and in which direction is the point Q from the Point P ?
a) 20 metres West
b) 10 metres East
c) 10 metres West
d) 10 Metres North

* 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. Influenza : Virus : : Typhoid : ?
a) Bacillus
b) Parasite
c) Protozoa
d) Bacteria
106. $\qquad$
a) $\operatorname{dog}$
ii) kite
c) horse
d) man
107. have sharp sense of sight
a) $\operatorname{dog}$
ii) bat
c) mosquito
d) kite
108. $\qquad$
a) eye
ii) ear
c) skin
d) nose
109. Sunita William went to space in $\square$
a) space craft
b) airplane
c) helicopter
d) satellite
110. Diwali is celebrated on $\qquad$ when we have no moon.
a) pornima
b) amavasya
c) chaturthi
d) ekadashi
111. The sun, stars, moon are all in $\qquad$
a) sky
b) space
c) atmosphere
d) galaxy
112. Salt can be obtained from $\qquad$
a) river
b) sea
c) pond
d) spring
113. Oil is lighter than - hence floats
a) water
b) soil
c) powder
d) charcoal
114. Every drop of water is $\qquad$
a) precious
b) important
c) round
d) colorless
115. A severe earth quake too place on $26^{\text {th }}$ December 2001 in $\qquad$
a) killari
b) kutch
c) Mumbai
d) goa
116. When there is no rain of r a very long time
——ooccurs
a) drought
b) flood
c) famine
d) cyclone
117. The intensity of an earthquake is measured on the $\qquad$ scale.
a) rishter
b) meter
c) centimeter
d) decimeter
118. 

a) wildlife
b) sanctuaries
c) forest
d) 200
119. Trees and forests are for
a) all
b) birds
c) animals
d) snakes
120. Forests are home to many tribal communities known as
a) zombie
b) advises
c) actor
d) scientist
121. The -_ helps us to taste food.
a) Tounge
b) Nose
c) Teeth
d) Eyes
122. -_ is the main source of water on the earth
a) Rain
b) Well
c) Tank
d) Tap
123. Everyone has a right to get enough
to live land drink.
a) Water
(b) Juice
c) Oil
d) Kerosene
124. Truck that run on
a) Petrol
b) Diesel
c) CNG
d) None of above
125. Earthquakes are - calamities
a) Man-Made
b) Natural
c) Human
d) None of this
126. Many years ago farmers grew crops according to the $\qquad$
a) Season
b) time
c) Month
d) Rain
127. $\qquad$ is used to spun cotton
a) Charkha
b) Roller
c) Wheel
d) None of this
128. The Biggest ocean or earth is
a) Pacific Ocean
b) Atlantic Ocean
c) Indian
d) Artic Ocean
129. What is the capital city if Maharashtra ?
a) Mumbai
b) Pune
c) Delhi
d) Nagpur
130. Earth is a
a) Star
b) Planet
c) Satellite
d) None of these
131. The people of France are called $\qquad$
a) French
b) Poles
c) Dutch
d) Swiss
132. In which city is char miner situated ?
a) Hyderabad
b) Mumbai
c) Pune
d) Nagpur
133. Darjeeling is situated in $\qquad$
a) Assam
b) Bihar
c) West Bengal
d) Gujarat
134. Nepali is one of the official language of $\qquad$
a) Sikkim
b) Assam
c) Meghalaya
d) both (a) \& (b)
135. The Ramayana was written by -
a) Tulsidas
b) Kalidas
c) Valmiki
d) Ramdas
136. MRF is the brand name of $\qquad$
a) Camera
b) TV
c) Fan
d) Tyre
137. Grane is an example of $\qquad$
a) Wheel
(b) Pulley
c) Lever
d) Square
138. Ear, Nose, Throat Specialist use a - Mirror.
a) Conver
b) Concave
c) Plane
d) Big
139. There are -_bones in the human body.
a) 270
b) 206
c) 200
d) 202
140. Which is the largest land animal ?
a) Giraf
b) Ostrich
c) Elephant
d) Tiger

## PART-III ESSAY

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

1. My favourite friend
2. My family
3. Diwali
