

QUESTION PAPER
ARMY CADET COLLEGE ENTRANCE EXAM SER:127

4883

INDEX No _____

Time : 3 Hrs

SET - B

Max Marks :300

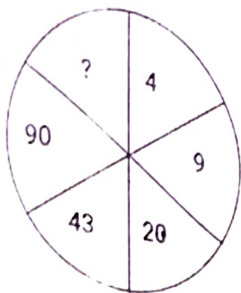
General Instructions

- (i) There are 150 questions and all questions are compulsory.
- (ii) Mark your response on OMR sheet provided for this part of the exam.
- (iii) Each question carries two marks and for each incorrect answer 0.50 marks will be deducted.
- (iv) Do not write anything on the question paper except for your Index No in the space provided.

PART-I: REASONING

Complete the given series / answer the questions with the given options
(Question 1-10)

1. A man goes 5 km East, then he turns right and goes 4 km, then he turns left and goes 5 km. Which direction is he facing now?
(a) North (b) South (c) East (d) West
2. Pointing towards a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?
(a) Mother (b) Grandmother (c) Sister (d) Daughter
3. 190, 94, 46, 22, 10, 4, _ ?
(a) 1.5 (b) 1 (c) 0.5 (d) 2
4. UPI, ?, ODP, MBQ, IAW
(a) RHJ (b) SHJ (c) SIJ (d) THK
5. If A means 'x' B means '÷' C means '-' and D means '+', then $4 D 16 A 5 B 8 C 5 = ?$
(a) 9 (b) 16 (c) 13 (d) 75
6. January 1, 2007, was Monday. What day of the week lies on Jan. 1, 2008?
(a) Monday (b) Tuesday (c) Wednesday (d) Sunday
7. Insert the missing number in the following



- (a) 185 (b) 126 (c) 239 (d) 145

8. Ocean : Water :: Glacier : ?

- (a) Fridge (b) Ice (c) Cave (d) Mountain

9. If in a certain language 'NIL' is written as 'MOHJKM', then how will 'COMB' be written in that language?

- (a) BDNPNLCA (b) BDNPLNAC (c) BDPNLNAC (d) BDNPLNCA

10. CIG, FLJ, IOM, ?

- (a) LRP (b) JLG (c) PSU (d) QUB

11. Statements: All Grapes are Bananas. All Bananas are Potatoes.
Conclusions: I. Some Potatoes are Bananas. II. Some Grapes are Potatoes.

- (a) If only conclusion I follows. (b) If only conclusion II follows
(c) If both conclusions I & II follow (d) If no conclusion follow

12. Statement: All Carrots are birds. Some telephones are Carrots. All bed sheets are telephone.

Conclusion: I. All bed sheets are birds ~~II. Some bed sheets are birds~~
III. Some birds are telephone ~~IV. All telephone are birds~~

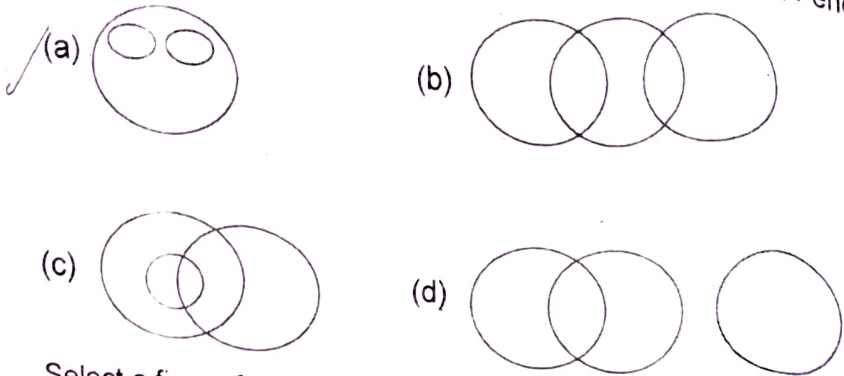
- (a) If only conclusion I follows. (b) If only conclusion II follows
(c) If both conclusions I & III follows (d) If only conclusion III follows

13. How many squares are there in the figure given below ?

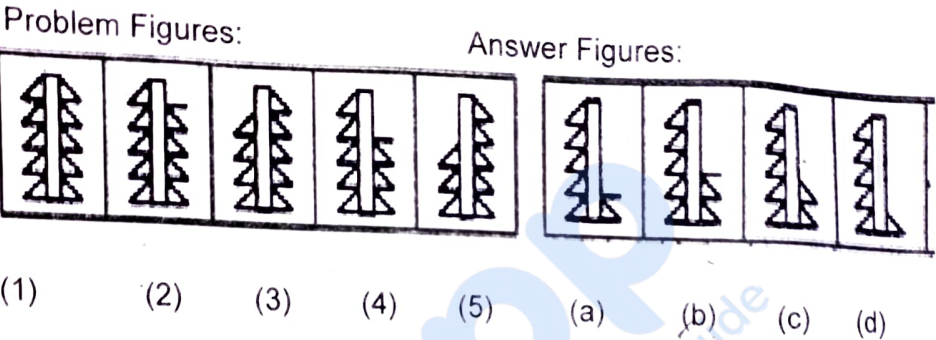


- (a) 4 (b) 5 (c) 6 (d) 7

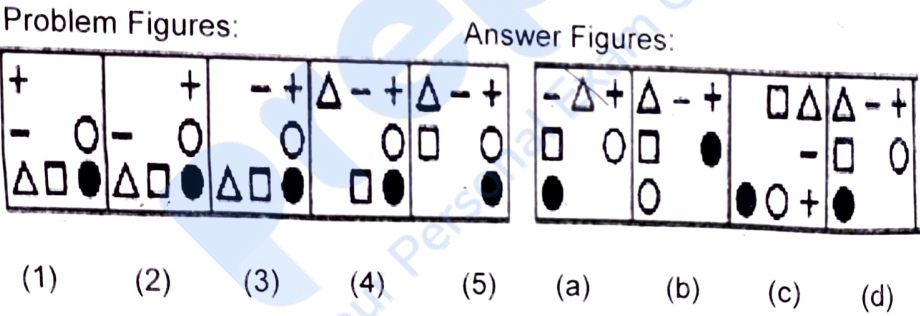
14. Which of the following diagram correctly represents Pen, Pencil and Stationery?



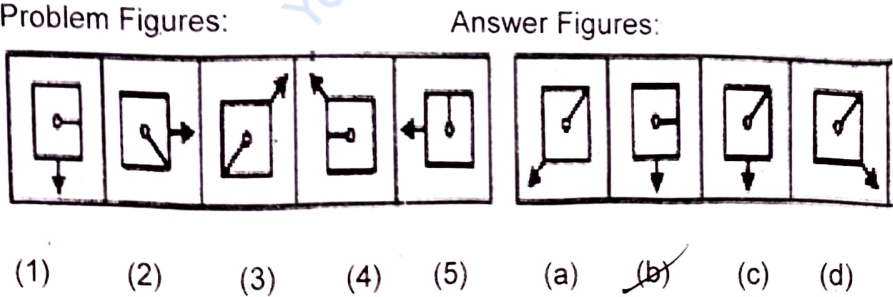
15. Select a figure from amongst the Answer Figures which will continue the same series as established by the four Problem Figures.



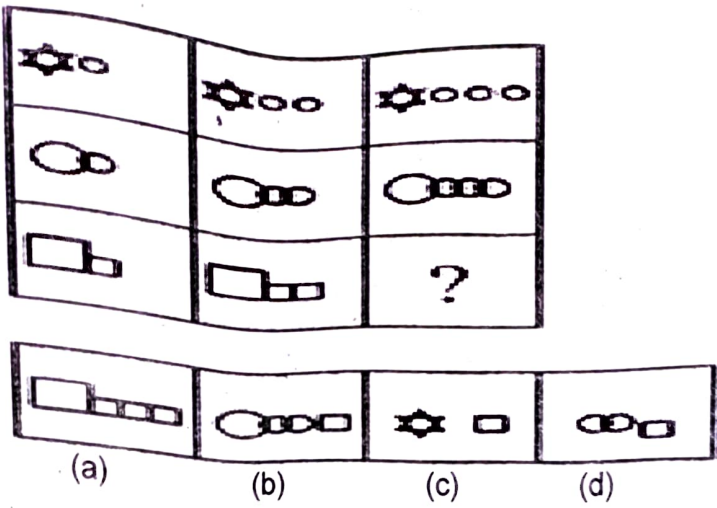
16.



17.

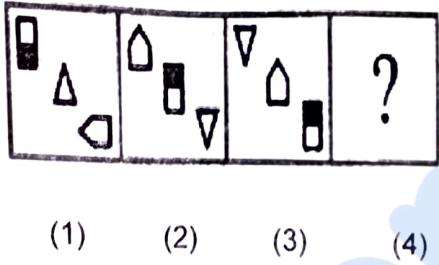


18. Select a suitable figure from the four alternatives that would complete the figure matrix.

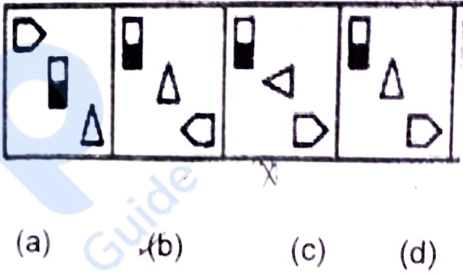


19. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:

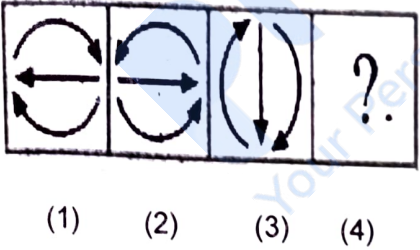


Answer Figures:

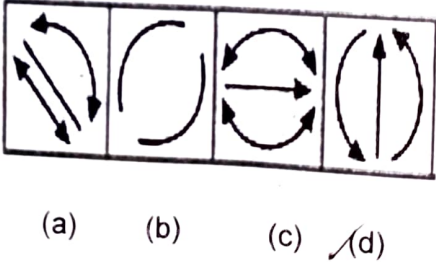


20. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:

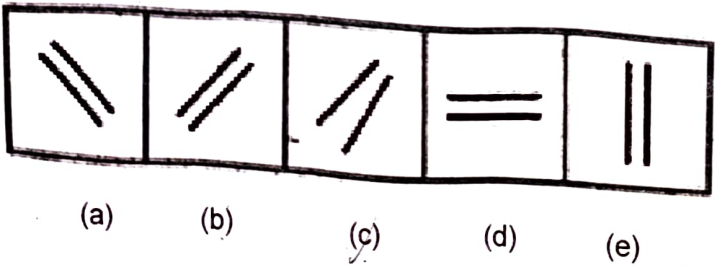


Answer Figures:

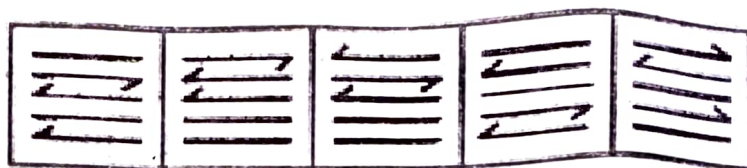


Directions (Q 21-25). In each of the following questions one of the figures is different from the rest. Spot the figure.

21.

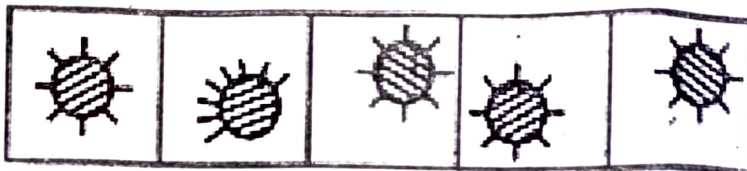


22.



(a) (b) (c) (d) (e)

23.



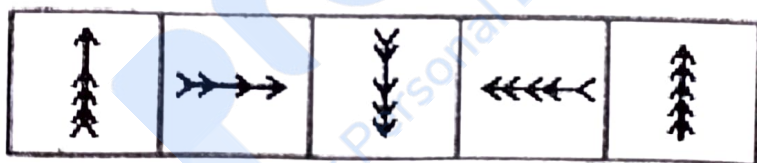
(a) (b) (c) (d) (e)

24.



(a) (b) (c) (d) (e)

25.



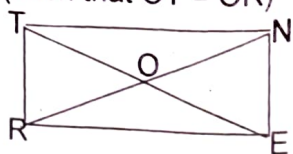
(a) (b) (c) (d) (e)

PART-II: MATHEMATICS

26. Three angles of a quadrilateral are 80° , 95° and 112° . Its fourth angle is

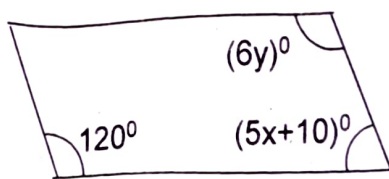
(a) 78° (b) 73° (c) 85° (d) 100°

27. RENT is a Rectangle, its diagonals meet at O. Find x, if $OR=2x+4$ and $OT=3x+1$ (such that $OT = OR$)



- (a) 4 (b) 3 (c) 6 (d) 5

28. Find the values of x and y in the following Parallelogram



- (a) $10^\circ, 30^\circ$ (b) $10^\circ, 20^\circ$ (c) $15^\circ, 20^\circ$ (d) $25^\circ, 40^\circ$

29. A bag contains 5 brown and 4 white socks. A man pulls out two socks. The probability that they are of the same colour is

- (a) $1/6$ (b) $5/108$ (c) $4/9$ (d) $5/18$

30. What is the mode of following items 0, 1, 6, 7, 2, 3, 7, 6, 1, 6, 2, 0, 6, 5, 6, 0, 6, 2.

- (a) 0 (b) 1 (c) 6 (d) 2

31. $1/6$ of a number is 53. What is 57% of that number?

- (a) 181.26 (b) 136.74 (c) 197.16 (d) 149.46

32. How much is $1/4$ of 448 less than $2/3$ of 753?

- (a) 320 (b) 340 (c) 360 (d) None of these

33. How many 3 digit numbers are exactly divisible by 6?

- (a) 140 (b) 150 (c) 160 (d) 170

34. A, B and C can do a piece of work in 20 days, 30 days and 60 days respectively. If A works continuously and on every third day B and C also work with A, then in how many days, the work will be completed?

- (a) 12 days (b) 15 days (c) 16 days (d) 18 days

35. Due to a fall of 20% in the rates of wheat a man can buy 10 kg more than before for Rs 600. What is the decreased rate per kg?

- (a) Rs11.50 (b) Rs12.50 (c) Rs12.00 (d) Rs15.00

36. If $\tan \theta = -4/3$, then $\sin \theta$ is

- (a) $-4/5$ but not $4/5$ (b) $-4/5$ or $4/5$
(c) $4/5$ but not $-4/5$ (d) None of These

37. What is the value of $\sin 45^\circ$

- (a) $1/5$ (b) $-1/\sqrt{2}$ (c) $-1/5$ (d) $1/\sqrt{2}$

38. If $\cot A = 12/5$, then the value of $(\sin A + \cos A) \times \operatorname{Cosec} A$ is
 (a) $17/5$ (b) $13/5$ (c) $14/5$ (d) 1
39. The value of $\sin 50^\circ - \sin 70^\circ + \sin 10^\circ$
 (a) 0 (b) 1 (c) 2 (d) 3
40. $\frac{1}{\sin 10^\circ} - \frac{\sqrt{3}}{\cos 10^\circ}$ is equal to
 (a) 2 (b) 3 (c) 4 (d) 1
41. Find the value of $\frac{2.7 \times 2.7 \times 2.7 - 0.027}{7.29 + 0.81 + 0.09}$
 (a) 2.6 (b) 2.4 (c) 2.2 (d) 2
42. If $a*b = a^2 + b^2 - 2a + 2b$, then find the value of $4*2 = ?$
 (a) 18 (b) 16 (c) 20 (d) 14
43. If $\frac{x}{y} = \frac{6}{5}$, then $\frac{6}{7} - \frac{5x-y}{5x+y} = ?$
 (a) $\frac{1}{7}$ (b) $\frac{2}{7}$ (c) $\frac{3}{7}$ (d) $\frac{4}{7}$
44. $? + 0.0025 = 800$
 (a) 0.2 (b) 0.02 (c) 2000 (d) 2
45. If $(X*Y) = x^2 + y^2 - xy$, then the value of $(9*11)$ is
 (a) 93 (b) 103 (c) 113 (d) 121
46. The curved surface area of a cylinder is 264cm^2 and its height is 14 cm. its volume is
 (a) 396 cm^3 (b) 594 cm^3 (c) 198 cm^3 (d) 495 cm^3
47. An angle which is greater than 180° but less than 360° is called
 (a) A Reflex Angle (b) A Right Angle
 (c) An Adjacent Angle (d) None of These
48. What is surface area of a cube, one of whose edge is 9 cm
 (a) 481 Cm^2 (b) 486 Cm^2 (c) 476 Cm^2 (d) 484 Cm^2

100
58
93

49. Lengths of sides of a triangle are 3cm, 4cm and 5cm. The triangle is
 (a) Obtuse angled triangle (b) Acute angled triangle
 (c) Right angled triangle (d) An isosceles right-angled triangle
50. If all the edges of a cube are doubled, its volume is increased by
 (a) 300% (b) 400% (c) 700% (d) 800%

PART-III: GENERAL KNOWLEDGE

51. First person to be awarded **Param Vir Chakra** was ?
 (a) Maj Somnath Sharma (b) Maj Hoshiar Singh
 (c) Nb Sub Bana Singh (d) CQMH Abdul Hameed
52. Pulitzer prize is awarded for outstanding work in the field of
 (a) Science and Technology (b) Environmental Studies
 (c) Literature and Journalism (d) International Understanding
53. Name the Indian woman boxer, who won gold medal at Women's World Boxing Championship 2022 held at Istanbul
 (a) Lekha K C (b) Sarita Devi
 (c) Mary Kom (d) Nikhat Zareen
54. 2022 FIFA World Cup is scheduled to take place in which country?
 (a) Oman (b) Malaysia
 (c) Israel (d) Qatar
55. Which Indian has won an **Olympic Gold Medal** in shooting?
 (a) Anjali Bhagwat (b) Gagan Narang
 (c) Abhinav Bindra (d) RajyaVardhan Singh Rathore
56. Which country has started the world's longest metro line?
 (a) Australia (b) Japan (c) America (d) China
57. India's most modern railway station Rani Kamalapati station is located in which city?
 (a) Ahmedabad (b) Lucknow
 (c) Bhopal (d) Patna

58. Which nation has won the ICC Women's World Cup Final 2022?
(a) ☒ New Zealand (b) India (c) Australia (d) Germany
59. Where is the headquarters of the International Atomic Energy Agency (IAEA)?
(a) Geneva (b) New York (c) Moscow (d) ☒ Vienna
60. Famous book "**Around the world in 80 days**" was written by ?
(a) Charles Dickens (b) Rudyard Kipling
(c) William Alexander (d) ☒ Jules Verne
61. Defence Services Staff College is located at ?
(a) Chennai (b) Mysore
(c) Kolkatta (d) ☒ Wellington
62. Who was the first Indian to travel in space ?
(a) ☒ Rakesh Sharma (b) Kalpana Chawla
(c) Sunita Williams (d) Narayan Swamy
63. Paramilitary force SSB is deployed in border areas of our country. What does SSB stands for?
(a) Special Security Board (b) Sanyukt Seema Bal
(c) ☒ Sashastra Seema Bal (d) Special Security Bal
64. India Celebrates February 28 every year as 'National Science Day' because on this day
(a) First Indian Space craft was launched
(b) Nehru laid the foundation of Science labs all over India
(c) In 1928 C.V. Raman discovered what was later called the 'Raman Effect'
(d) Vikram Sarabhai was born
65. Which city has announced its detailed framework to zero out carbon emissions by 2050?
(a) ☒ Mumbai (b) Pune (c) Hyderabad (d) Gurgaon
66. World Human Rights Day is observed on
(a) April 8 (b) ☒ December 10 (c) December 7 (d) September 5
67. Winner of Australian Open 2022 in Women's single category is ?
(a) ☒ Serena Williams (b) Angela Kerber
(c) Ashleigh Barty (d) Danielle Collins

68. The first Indian to receive Noble Prize in Literature was
(a) Mother Teresa (b) C. V. Raman
(c) Rabindranath Tagore (d) Sarojini Naidu
69. Which Service has signed a MoU with IIT Madras for technology development?
(a) Indian Army (b) Indian Navy
(c) Indian Air Force (d) Indian Coast Guard
70. Who is known as "Grand Old Man of India" ?
(a) Dadabhai Naoroji (b) Charles Correa
(c) B V Doshi (d) Jagjivan Ram
71. Which of the following country has introduced the "Homes for Ukraine's" Scheme for displaced Ukrainians?
(a) Germany (b) UK
(c) France (d) Poland
72. Full form of UNICEF is?
(a) United Nations International Climate & Environment Fund
(b) United Nations International Children's Emergency Fund
(c) United Nations International Carbon Emission Fund
(d) Understanding of Nations on International Cooperation on Climate & Environment Facts.
73. Name the famous Indian businessmen, who recently received an Honorary **Commander of the Order of the British Empire** by Her Majesty the Queen?
(a) Gautam Adani (b) Ajay Piramal
(c) Ratan Tata (d) Mukesh Ambani
74. Which cargo vessel has become the longest vessel ever to sail in river Brahmaputra?
(a) MV Northern Jaguar (b) MV Ram Prasad Bismil
(c) MV APL Raffles (d) MV MSC Valeria

75. Who has been appointed new Vice Chairperson of NITI Aayog (in April 2022)?

- (a) Jayati Ghosh
(c) Suman K Berry

- (b) Abhijeet Banerjee
(d) Ramesh Chand

PART-IV: ENGLISH

Directions(Q 76-80): Choose the right option for the meaning of given idiom/phrases.

76. To get cold feet

- (a) To run for life
(c) To fall sick

- (b) To be afraid
(d) To become discourteous

77. To see eye to eye with

- (a) To agree
(c) To be angry

- (b) To stare fixedly
(d) To take revenge

78. Hard and fast

- (a) Fixed
(c) To be proud of

- (b) To work very hard
(d) Give up

79. To be under a cloud

- (a) Self-interest
(c) Confused

- (b) Under suspicious
(d) First of all

80. Now and then

- (a) Fled away
(c) Sometimes

- (b) In trouble
(d) Somewhere

Directions(Q 81-83): In each of the questions below, choose the word that best expresses the meaning of the given word.

81. Prudent

- (a) Brisk

(b) Discreet

(c) Virtuous

(d) Trivial

82. Impair

- (a) Confirm

(b) Repair

(c) Vapid

(d) Diminish

83. Jubilant

- (a) Ruin

(b) Rejoicing

(c) Economy

(d) Dismal

Directions(Q 84-85): Choose the word opposite in meaning to the given word.

84. Vulgar

- (a) Simple

(b) Elegant

(c) Usual

(d) Separate

85. Instil

(a) Huge

(b) Extract

(c) Relation

(d) Inject

Directions (Q 86-90): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error and mark the appropriate letter (1), (2) and (3). If there is no error, mark (4).

86. Ten new members (1) / have been enrolled, (2)/ and seven resigned. (3)/ No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

87. So honestly he worked (1)/ that he was rewarded (2)/ by the chairman of the company. (3)/ No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

88. I am used to (1)/ many guests everyday (2)/ but there was none today. (3)/ No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

89. He had ordered you (1)/ to paint in Green but you painted (2)/ the blue house. (3)/ No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

90. When the two parted (1)/ they bade farewell (2)/ to one another. (3)/ No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

Passage (Q 91-95):

The new year is a time for resolutions. Mentally at least, most of us *could* compile formidable lists of Do's and Don'ts. The same old favourites recur year in and year out with monotonous regularity. Past experience has taught us that certain accomplishments are beyond attainment.

If we remain inveterate smokers, it is only because we have so often experienced the frustration that results from failure. Most of us fail in our efforts at self-improvement because our schemes are too ambitious and we never have time to carry them out.

We also make the fundamental error of announcing our resolutions to everybody so that we look even more foolish when we slip back into our old bad ways.

Based on the Passage, answer the following questions:

91. What does used in passage?

- (a) The
(b) The
(c) The
(d) The

92. Why does

- (a) Be
(b) Be
(c) Be
(d) Be

93. What does

- (a) Th
of high al
(b) Th
(c) Th
possible
(d) N

94. What is

- (a) V
(b) V
(c) V
(d) V

95. Which c passage?

- (a) F
(b) /
(c) /
(d) /

Direction (Q
In the followin
From the give
the given sen

96. Mohar

- (a) Mo
(b) Mo
(c) Mo
(d) Mc

91. What does it mean by the phrase 'Formidable lists of Do's and Don'ts' as used in passage?

- (a) The realization that we are so imperfect is frightening.
- (b) The bad points of our character are formidable.
- (c) The list so long that it is frightening.
- (d) The things that need to be included is frightening.

92. Why does the author imply that many are inveterate smokers?

- (a) Because they want to forget the frustration of not smoking.
- (b) Because they believe that it is almost impossible to give it up.
- (c) Because they have not tried to give it up.
- (d) Because they do not have will power to do so.

93. What does the author say regarding self-improvement?

- (a) The author says that we fail in our efforts at self-improvement because of high ambitions.
- (b) The author says that we cannot become perfect.
- (c) The author believes that imperfections are part of our lives so it is not possible to improve ourselves.
- (d) None of These.

94. What is the fundamental error about resolution that we make?

- (a) We do not make announcement publically.
- (b) We never try to make them possible.
- (c) We make the announcement publically and look even more foolish.
- (d) We complete them without realising the effect.

95. Which of the following words means the same as 'deep-rooted' as used in the passage?

- (a) Formidable.
- (b) Attainment.
- (c) Ambitious.
- (d) Inveterate.

Direction (Q 96-100) :

In the following section the sentences have been given in Direct or Indirect speech. From the given alternatives, choose the most appropriate sentence that best suits the given sentence in Indirect or Direct speech.

96. Mohan said, "We are all sinners".

- (a) Mohan said that we are all sinners.
- (b) Mohan said we are all sinners.
- (c) Mohan said that we was all sinners.
- (d) Mohan asked that we are all sinners

97. He said "Will you listen to such a man?"
(a) He said them whether they will listen to such a man.
(b) He asked them whether they should listen to such a man.
☒ (c) He asked them whether they would listen to such a man.
(d) He told them whether they would listen to such a man.
98. He exclaimed sadly that he was undone.
(a) He said, "Alas! I am undone".
(b) He said, "Alas! He was undone".
(c) He said, "Alas! He is undone".
☒ (d) He said, "Alas! I am not done".
99. He said to me, "What are you doing?"
☒ (a) He asked me what I was doing.
(b) He said to me what I was doing.
(c) He asked me that what I was doing.
(d) He said that what he is doing.
100. Richa advised her friend not to care for such a man.
(a) Richa advise to her friend, "If I were you , I will not care for such a man".
(b) Richa asked to her friend, "If I were you , I would not care for such a man".
(c) Richa said to her friend, "If I was you , I would not care for such a man"..
☒ (d) Richa said to her friend, "If I were you , I would not care for such a man".

PART-V: GENERAL SCIENCE

101. A particle which is similar to electron is
(a) Positron ☒ (b) Beta Particle (c) Photon (d) Meson
102. Which of the following contains both ionic and covalent bond
(a) H₂O (b) NaOH (c) C₆H₆ (d) CO₂
103. Consider the following statements.
I. Nitric acid is used in the production of fertilizers.
II. Sulphuric acid is used in the production of explosives.
☒ (a) Only I (b) Only II (c) Both I and II (d) Neither I or II
104. Trona is an ore of
(a) Sodium (b) Calcium (c) Magnesium (d) Potassium
105. Which of the following is known as white pigment?
☒ (a) Zinc Sulphate (b) Zinc Sulphide (c) Zinc Chloride (d) Zinc Oxide

106. What % of Sun's energy is radiated back into space?
 (a) 30% (b) 45% (c) 60% (d) 75%
107. Wet agriculture is practiced mostly in
 (a) Karnataka (b) Andhra Pradesh (c) Kerala (d) Tamil Nadu
108. All the non-living parts of an ecosystem are referred to as
 (a) Community (b) Biotic factors (c) Abiotic factors (d) Biomes
109. Which of the following is not a greenhouse gas?
 (a) Methane (b) Sulphur hexa fluoride (c) Nitrous Oxide (d) Hydrogen
110. Energy of ecosystem is lost as
 (a) Light (b) Biomass (c) Heat (d) Electrons
111. Two bodies of unequal masses are dropped from a cliff. At any instant, they have equal
 (a) Momenta (b) Accelerations (c) Potential energies (d) Kinetic energies
112. A shell of mass 200gm is ejected from a gun of mass 4Kg by an explosion that generates 1.05KJ of energy. The initial velocity of the shell is
 (a) 100 ms⁻¹ (b) 80 ms⁻¹ (c) 40 ms⁻¹ (d) 120 ms⁻¹
113. Unit of electric current is
 (a) Coulomb/sec (b) Newton/sec (c) Farad (d) Watt
114. The velocity of sound is maximum in:-
 (a) Air (b) Water (c) Steel (d) Kerosene oil
115. The change in linear momentum of a body is _____ to force applied on it.
 (a) Equal (b) Proportional (c) Not equal (d) Inversely Proportional
116. The yellow colour of urine is due to
 (a) Urochrome (b) Bilirubin (c) Biliverdin (d) xanthophyll
117. After vaccination the body builds up
 (a) toxins (b) Lymph (c) Antibodies (d) Plasma
118. Vessels having one cell thick walls are called
 (a) Capillaries (b) Arteries (c) Veins (d) None of these
119. Which is the first enzyme to mix with food in the digestive tract?
 (a) Pepsin (b) Cellulose (c) Amylase (d) Trypsin
120. Study of antigens and antibodies found in blood, is called
 (a) Histology (b) Immunology (c) Serology (d) Gynecology

121. Ctrl, Shift and Alt are called _____ keys.
(a) Modifier (b) Function (c) Alpha-numeric (d) Adjustment
122. _____ is the process of finding errors in software code
(a) Compiling (b) Testing (c) Running (d) Debugging
123. An alternate name for the completely inter-connected network topology
(a) Mesh (b) Star (c) Tree (d) Ring
124. The binary number 11000101 has _____ byte
(a) 1 (b) 2 (c) 4 (d) 8
125. The _____ tells the computer how to use its components.
(a) Utility (b) Network (c) Operating System (d) Application program

PART-VI: HUMANITIES

126. Innermost layer of the earth is known as-
(a) Lithosphere (b) Mesosphere (c) Asthenosphere (d) Barysphere
127. Which is the land of morning calm?
(a) Finland (b) Korea (c) Japan (d) Thailand
128. What is the name of International Border line between Germany and France?
(a) Durand Line (b) Hindenburg Line (c) Maginot Line (d) 24th Parallel
129. Which of the following is largest river without Delta?
(a) Godavari (b) Ganga (c) Kaveri (d) Narmada
130. Treeless grassland are called?
(a) Stepps (b) Compos (c) Lomos (d) Savanna
131. Which one of the following countries is not a member of the 'BRICS'
(a) China (b) India (c) Russia (d) Bangladesh
132. "Incredible India" is the tagline of which org?
(a) Indian Railways (b) Swachh Bharat Abhiyan
(c) Indian Tourism (d) Air India
133. Which of the following has welcomed the launch of "Access to COVID-19 Tools (ACT) Accelerator"?
(a) BRICS (b) G7 (c) G20 (d) SCO

134. On 30th Oct 2019, CBSE & NCERT, New Delhi developed an Aptitude Test for Senior School students. What is the name of that test?
(a) Tamanna (b) Udaan (c) Lakshya (d) Akanksha
135. The UN Department of peace keeping operations was created in?
(a) 1948 (b) 1955 (c) 1992 (d) 1994
136. In the third Battle of Panipat, the Marathas were defeated by-
(a) The Afgans (b) The Mughals (c) The English (d) The French
137. Who was the last ruler of Lodhi Dynasty?
(a) Bahlol Lodhi (b) Ibrahim Lodhi (c) Daulat Khan Lodhi (d) Sikander Lodhi
138. Who was the first and last woman ruler of Delhi?
(a) Chand Biwi (b) Noor Jahan (c) Razia Sultan (d) Mumtaz Mahal
139. The Ajanta paintings belongs to the -
(a) Harappan period (b) mauryan period
(c) Buddhist period (d) Gupta period
140. Who among the following is considered to be the father of Ayurveda?
(a) Dhanvantri (b) Patanjali (c) Sushruta (d) Charaka
141. Panchayati Raj act has received the constitutional status with which of the following amendment act?
(a) 72nd (b) 73rd (c) 74th (d) 75th
142. Which two articles cannot be suspended during the proclamation of National emergency?
(a) Article 19 and 20 (b) Article 20 and 21
(c) Article 14 and 15 (d) Article 30 and 32
143. Who among the following acts as the chancellor of state Universities?
(a) Governor (b) Administrators of UTs (c) Prime Minister (d) President
144. Fundamental duties were introduced by which amendment?
(a) 42 (b) 43 (c) 44 (d) 41
145. Which amendment of the constitution of India limits the number of Ministers?
(a) 73rd (b) 86th (c) 87th (d) 91st

146. National Income in India is estimated by-
(a) CSO (b) Finance Commission
(c) Planning Commission (d) Indian Statistical Institute
147. Which of the following is a direct tax?
(a) Entertainment tax (b) Estate tax (c) Excise duty (d) Sales tax
148. Which of the following is an instance of quasi-money?
(a) Demand deposits (b) Coins
(c) Bill of exchange (d) Furniture
149. Normal profit is a part of
(a) Implicit cost (b) Explicit cost
(c) Real cost (d) Opportunity cost
150. Income elasticity of demand is positive for all persons for
(a) Inferior goods (b) Geffen goods
(c) Capital goods (d) Normal goods
