FCI EXAM-13 (MORNING)

General Intelligence

1. In a code language, the following alphabets are coded in a particular way:

   A B C D E F G H I R S T
   ↑ ↓ → �□ | ‖ ⋈ ✝ ✝ ∧ △ ≡

   Which word can be coded as
   ≡ ↑ ⋈ | ∧ ?
   (a) TIGER   (b) TRIGER
   (c) TIGHT   (c) FIGHT

2. If 52 × 45 = 30, 73 × 21 = 23 and
   84 × 52 = 42, then, 62 × 43 = ?
   (a) 20   (b) 24
   (c) 30   (d) 32

3. If BET = ROD, CAN = SIM and MUG = LAN, then MEN = ?
   (a) LOM   (b) OLM
   (c) MOL   (c) LMO

4. In a code language, the following alphabets are coded in a particular way:

   A B C D E F G H I J K L M N
   1 2 3 4 5 6 7 8 9 10 11 12 13 14

   Find out the word with the given code 2, 1, 14, 4.
   (a) BEND   (b) FEND
   (c) BAND   (d) HAND

5. The following data shows the game level and its scores. Find out the score for the 6th level :

   Level → 1 2 3 4 5 6
   Scores → 2 4 8 14 22 ?
   (a) 24   (b) 32
   (c) 44   (d) 52

6. If AMPLIFIER is coded as CORNKHKGT, then QGELYJ is coded as what ?
   (a) RHFMZK   (b) RHFNAL
   (c) SIGNAL   (d) SIGMZK

7. If 'Vocation' is written as 'Catioovn', 'Guidance' is written as
   (a) Idanucge   (b) Idancueg
   (c) Uidanucg   (d) Guiadnuc

statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

8. **Statement** : Finance companies collapse due to mismanagement.

   Conclusions :
   I. Even good management cannot run finance companies with success.
   II. Proper management can help finance companies to thrive.
   (a) Both conclusions I and II follow.
   (b) Neither conclusion I nor II follow.
   (c) Only conclusion I follows.
   (d) Only conclusion II follows.

9. **Statements** :
   1. Sohan is a good sportsman.
   2. All sportsmen are healthy.
   Conclusions :
   I. All healthy persons are sportsmen.
   II. Sohan is healthy.
   (a) Only conclusion I follows.
   (b) Only conclusion II follows.
   (c) Either conclusion I or II follows.
   (d) Neither conclusion I nor II follows.

10. Ram was born on 29th February. He celebrated his birthday falling on exactly 29th February 2008 for the fourth time. In which year he was born?
    (a) 1992
    (b) 2004
    (c) 2000
    (d) 1996

11. Two trains A and B running at 60 kmph and 40 kmph respectively in opposite directions from stations X and Y 200 km apart will cross or collide at a moment exactly after
    (a) 1 hour and 30 minutes
    (b) 3 hours and 20 minutes
    (c) 2 hours
    (d) 2 hours and 30 minutes

12. Pea-hen : Pea-cock : : Bitch : ?
    (a) He-elephant
    (b) Mongoose
    (c) Dog
    (d) Wolf

13. DEVIL : ABSFI : : OTHER : ?
    (a) MRFCP
    (b) RWKHU
    (c) LQEBO
    (d) LRECO

14. Manipuri : Manipur : : Karnakali : ?
    (a) Karnataka
    (b) Tamil Nadu
    (c) Kerala
    (d) Andhra Pradesh

15. Teacher : Student : : Pontiff : ?
    (a) Disciple
    (b) Follower
    (c) Priest
    (d) Deity

16. Temple : Ear; Shoulder : Hand; Gum : ?
    (a) Lip   (b) Tongue
    (c) Vein   (d) Tooth

17. What is once in PEN, twice in PAPER and thrice in PEPPER ?
    (a) E   (b) P
    (c) R   (d) A

18. If SUPER = 79, SUPREME = 97, then LABOUR = ?
    (a) 79   (b) 69
    (c) 89   (d) 49

19. (a) Botany   (b) English
    (c) Physics   (d) Chemistry

20. (a) Krishna   (b) Cauvery
    (c) Narmada   (d) Mahanadi

21. (a) May   (b) June
    (c) July   (d) August

22. (a) Ant   (b) Spider
    (c) Bee   (d) Moth

23. (a) 6/9   (b) 16/64
     (c) 32/25   (d) 64/36

24. (a) 2010   (b) 2011
     (c) 2012   (d) 2013

25. (a) Lamb   (b) Goat
     (c) Ewe   (d) Ram

Directions : *In Question Nos.* **26 to 30,** *a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

26. 6, 8 : : 2, 12 : : 5, 9 : : 4, ?
     (a) 5   (b) 8
     (c) 10   (d) 11

27. 3, 5, 6, 11, 9, 17, 12, ?
     (a) 20   (b) 10
     (c) 22   (d) 23

28. 2, 1, 2 = 5
     3, 1, 1 = 4
     ?, 3, 1 = 7
     (a) 0   (b) 4
     (c) 2   (d) 1

29. A C D F G I J L M O P ?
     (a) Q   (b) R
     (c) S   (d) T

30. 2, 5, 7, 12, 19, 31, 2, 81
     (a) 30   (b) 40
     (c) 50   (d) 60

31. If the numbers starting with 944 are BSNL numbers, how many BSNL numbers are there in the below series?

     948554   944251   944189   943525
     944185
     932511   944285   985128   944424
     924785
     944325   946875   947895   944242
     944944
     (a) 8   (b) 7
     (c) 6   (d) 5

32. Which of the following words appear first in a dictionary?
     (a) Improve   (b) Impress
     (c) Imprint   (d) Impugn

33. Arrange the following words as per order in the dictionary.
     1. Detach   2. Devise
     3. Denote   4. Digest
     5. Depict
     (a) 5, 4, 3, 2, 1   (b) 3, 5, 1, 2, 4
     (c) 3, 2, 1, 5, 4   (d) 5, 2, 4, 1, 3

34. Arrange the following in chronological order :
     1. S. Radhakrishnan
     2. Rajendra Prasad
     3. Giani Zail Singh

4. V.V. Giri
5. A. P. J. Abdul Kalam
     (a) 2, 1, 4, 5, 3   (b) 2, 1, 3, 4, 5
     (c) 2, 1, 4, 3, 5   (d) 2, 1, 5, 4, 3

35. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it
     _ fgg _ eg _ eefl _ ef _ gg
     (a) eefge   (b) fegef
     (c) efege   (d) fgege

36. Which one of the following is the sequential order of colours in Rainbow?
     1. Red   2. Green
     3. Violet   4. Yellow
     5. Orange
     (a) 3, 2, 4, 5, 1   (b) 4, 3, 2, 5, 1
     (c) 3, 4, 2, 1, 5   (d) 2, 5, 4, 1, 3

Directions : *In Question Nos.* **37 and 38,** *select the wrong number in the series.*

37. 6, 18, 36, 108, 216, 648, 1290, 3888
     (a) 36   (b) 108
     (c) 1290   (d) 648

38. 3, 5, 8, 11, 17, 23
     (a) 8   (b) 11
     (c) 17   (d) 23

39. The following address has been reproduced against (a), (b), (c) and (d), three of which have some mistakes or the other. Choose the one without any mistake.

     Dr. C.V.R. Ramaswamy
     19, Babanasam Street
     Airport Road Lawspet
     Puducherry–635124

     (a) Dr. C. V. R. Ramaswamy
        19, Babanasam Street
        Airport Road, Lawspet
        Puducherry – 653124
     (b) DR. C. R. V. Ramaswamy
        19, Babanasam Street,
        Airport Road, Lawspet
        Puducherry – 635124
     (c) Dr. C. V. R. Ramaswamy
        19, Babanasam Street,
        Airport Road, Lawspet
        Puducherry –635124
     (d) Dr. C. V. R. Ramaswamy
        19, Babanasam Street
        Airport Road, Lawspet
        Puducherry – 635124

40. From the given alternatives, select the word which cannot be formed using the letters of the given word.
     THOROUGHLY
     (a) Rough   (b) Glory
     (c) Thorny   (d) Though

41. A boy walks northwards. After a while he turns towards his right and a little further to his left. Finally after walking a distance of one kilometre, he turns to his left again. In which direction he is moving now?
     (a) North   (b) South
     (c) East   (d) West

42. In the given diagram, circle represents athletes, square represents tall men and triangle represents bank officers. Which region represents bank officers who are athletes?

     (a) P and M   (b) P
     (c) Q   (d) P and Q

43. Which of the answer figures is the mirror image of the given figure if the mirror is held at AB?
     Question Figure :

     Answer Figures :

44. Which figure is different from the rest?

45. A square transparent sheet with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded along the marked line?
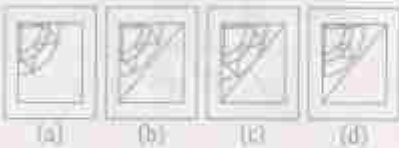   **Question Figure :**

     Answer Figures :

46. Which answer figure will complete the pattern in the question figure?

Question Figure :

Answer Figures :

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

Directions : In question Nos. 47 & 48, which answer figure will come next in the series of question figures.

47. Question Figures :

Answer Figures :

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

48. Question Figures :

Answer Figures :

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

49. A sheet of paper is folded in a particular manner, punched once and then unfolded. The punched, unfolded paper appers as in the given figure. Find out the manner inn which the paper was folded and punched by choosing the correct answer.

Question Figure :

Answer Figures :

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

50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., F can be represented by 14, 21, etc and E can be represented by 20, 32, etc. Similarly, you have to identify the set for the word 'REST'.

Matrix I

	0	1	2	3	4
0	D	E	F	I	N
1	I	N	D	E	E
2	E	F	I	N	D
3	N	D	E	E	I
4	F	I	N	D	E

Matrix II

	5	6	7	8	9
5	O	P	R	S	T
6	S	T	O	P	R
7	P	R	S	T	O
8	T	O	P	R	S
9	R	S	T	O	P

(a) 57, 20, 96, 98 (b) 69, 01, 58, 68
(c) 95, 44, 96, 98 (d) 76, 01, 65, 59

General Awareness

51. The Bhabar plains have been developed by
   (a) glacial deposit
   (b) wind deposit
   (c) river deposit
   (d) deposition in the lakes

52. Subsistence type of farming is practised in
   (a) Delta   (b) Plateau
   (c) Hill   (d) Coast

53. Africa is separated from Europe by
   (a) Red Sea
   (b) Mediterranean Sea
   (c) Atlantic Ocean
   (d) Persian Gulf

54. Which one of the following rivers is recharged by subsoil water?
   (a) Godavari   (b) Damodar
   (c) Narmada   (d) Krishna

55. The dolphin is
   (a) Fish   (b) Reptile
   (c) Mammal   (d) Turtle

56. Animals which have a well marked digestive cavity are put under
   (a) Metazoa   (b) Bryozoa
   (c) Parazoa   (d) Enterozoa

57. Mushrooms are
   (a) Fungi   (b) Viruses
   (c) Bacteria   (d) Protozoans

58. Which one of the following is an endocrine as well as an exocrine gland?
   (a) Pituitary   (b) Thyroid
   (c) Pancreas   (d) Parathyroid

59. Which one of the following is associated with kidney disorder?
   (a) Ventilator   (b) Dialysis
   (c) Pacemaker   (d) Baropacing

60. India's northern most latitude is
   (a) 36° 6′ N   (b) 37° 8′ S
   (c) 37° 6′ N   (d) 8° 4′ N

61. A racing car is designed to have a broad base and low height such that its centre of gravity is
   (a) very low   (b) in the middle
   (c) raised   (d) outside the car

62. Energy transformation in a microphone is from
   (a) sound to electrical
   (b) electrical to sound
   (c) sound to mechanical
   (d) mechanical to sound

63. The time-period of a simple pendulum is independent of its
   (a) length
   (b) mass
   (c) location on the Earth
   (d) amplitude of vibration

64. What happens when some charge is placed on a soap bubble?
   (a) Its radius decreases
   (b) Its radius increases
   (c) The bubble collapses
   (d) The bubble expands

65. The last three letters of the domain name describes the type of
   (a) organization (b) connectivity
   (c) server   (d) protocol

66. A RAM
   (a) is a random access memory
   (b) is a volatile memory

(c) is either static or dynamic memory.

(d) has all of the above characteristics.

67. Naturally occurring heaviest element is
(a) aluminum   (b) iron
(c) silicon   (d) uranium

68. Which of the following has the highest density?
(a) Charcoal   (b) Coke
(c) Diamond   (d) Graphite

69. Most important function of the food is to
(a) get energy
(b) satisfy hunger
(c) help growth of the body
(d) relish the taste

70. Most of the explosions in mines occur due to the mixing of
(a) hydrogen with oxygen
(b) oxygen with acetylene
(c) methane with air
(d) carbon dioxide with ethane

71. Which of the following affects biodiversity?
(a) Environmental pollution
(b) Ocean acidification
(c) Climate change
(d) All of the above

72. What was Montreal Protocol concerned with?
(a) Checking global warming
(b) Checking ozone depletion
(c) Both (a) and (b)
(d) (a), (b) and protecting biodiversity

73. Formation of acid rain is due to
(a) Water pollution
(b) Noise pollution
(c) Land pollution
(d) Air pollution

74. Enormous population expansion has led to the problem of
(a) Rising levels of atmospheric CO_2
(b) Global warming
(c) Increase in pollution level
(d) All of the above

75. Which of the following festivals is celebrated on Prophet Mohammad's birthday?
(a) Id-ul-Zuha   (b) Id-e-Milad
(c) Id-ul-Fitr   (d) Muharram

76. The Nobel Peace Prize is awarded in which city?
(a) Brussels
(b) Geneva
(c) Oslo
(d) Stockholm

77. Which one of the following pairs of cities have two Headquarters each of Indian Railway Zones?
(a) Kolkata and Chennai
(b) Kolkata and Mumbai
(c) Mumbai and Secunderabad
(d) Mumbai and Chennai

78. When a gas expands to a region of low pressure, its temperature
(a) increases
(b) decreases
(c) remains same
(d) first increases, then decreases

79. Who amongst the following directed the award winning film "Tare Zamin Par"
(a) Madhur Bhandarkar
(b) Salman Khan
(c) Aamir Khan
(d) Sanjay Leela Bhansali

80. The hill famous for treating mentally depressed persons in Tamil Nadu is
(a) Nilgiri   (b) Kutralam
(c) Javadi   (d) Anamalai

81. Who among the following was the first Indian to receive the Nobel Prize?
(a) Dr. C.V. Raman
(b) V. S. Naipal
(c) Mother Teresa
(d) Rabindranath Tagore

82. Which of the following Twin city is correct?
(a) Cochin - Ernakulam
(b) Bangalore - Mysore
(c) Mumbai - Pune
(d) Chennai - Chingleput

83. Who said, "Inflation is unjust but deflation is inexpedient. Of the two, deflation is worse"?
(a) J.M. Keynes
(b) Amartya Sen
(c) J. G. Gutlay
(d) J. N. Bhagwati

84. The civilian award bestowed by the President of India to persons for rendering exceptional and distinguished service in any field is
(a) Bharat Ratna
(b) Padma Shri
(c) Padma Vibhushan
(d) Padma Bhushan

85. Which one of the following has recently conferred the Honorary Degree of Doctor of Letters (D.Lit.) on U. N. Secretary General, Ban-Ki-Moon?
(a) Jamia Millia Islamia University
(b) Lal Bahadur Shastri Sanskrit University
(c) G.G.S. Indraprastha University
(d) I.I.T., Delhi

86. Which of the following is NOT an instrument of credit control used by the Central Bank?
(a) Bank rate
(b) Open Market Operations
(c) Selective credit controls
(d) Foreign exchange controls

87. In which type of economy National Income and Domestic Income is equal?
(a) Closed Economy
(b) Open Economy
(c) Developed Economy
(d) Developing Economy

88. The term Capital Consumption Allowance, (CCA) means
(a) A part of income used for consumption.
(b) increase in the value of capital assets.
(c) Depreciation value of capital goods
(d) A fund used to purchase machinery for the production of consumption goods.

89. In the following, who is a self employed person?
(a) Teacher teaching in a school
(b) Doctor appointed in hospital
(c) Railway employee
(d) Businessman

90. Who rules the State in the event of declaration of emergency under Article 356?
(a) Prime Minister
(b) Chief Minister
(c) Governor
(d) Chief Justice of the High Court

91. National Commission for Backward Classes was set up in
(a) 1991   (b) 1992
(c) 1993   (d) 1994

92. Official Language of the Indian Union is
(a) Hindi in Devanagari script
(b) Hindi and English
(c) English
(d) Hindi, English and Urdu

93. New Economic Policy was introduced in India in
(a) 1971   (b) 1981
(c) 1991   (d) 2001

94. The Constitution of India Provides for citizenship by
   (a) Birth
   (b) Residence
   (c) Naturalization
   (d) All of the Above

95. Who assumed the title Muhammad bin-Tuglak and became the ruler of Delhi in 1325 A. D.?
   (a) Juna Khan
   (b) Nasiruddin Shah
   (c) Chengiz Khan
   (d) Iltutmish

96. The Sikh Guru put to death by Aurangzeb was
   (a) Arjun Singh
   (b) Har Gobind
   (c) Tegh Bahadur
   (d) Har Kishan

97. The Home Rule Movement in India was started by
   (a) S.N. Banerjee and W.C. Banerjee
   (b) Annie Besant and Tilak
   (c) Mahatma Gandhi and Motilal Nehru
   (d) Annie Besant and Gokhale

98. Who among the following was responsible for the revival of Hinduism in 19th Century?
   (a) Swami Dayanand
   (b) Swami Vivekanand
   (c) Guru Shankaracharya
   (d) Raja Ram Mohan Rai

99. "Give me blood, I will give you freedom." These words are attributed to
   (a) Khudiram Bose
   (b) Bhagat Singh
   (c) Subhash Chandra Bose
   (d) Veer Savarkar

100. Panchayati Raj form of rural government was first adopted by
   (a) Rajasthan & Madhya Pradesh
   (b) Rajasthan & West Bengal
   (c) Rajasthan & Andhra Pradesh
   (d) Rajasthan & Uttar Pradesh
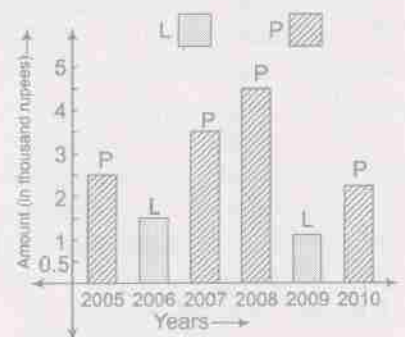
Quantitative Aptitude

101. The circumradius of the triangle formed by the straight line $3x + 4y = 12$ and the coordinate axes is
   (a) 5/2
   (b) 3/2
   (c) 2
   (d) 6

102. If $x\left(3 - \dfrac{2}{x}\right) = \dfrac{3}{x}$, then value of $x^2 + \dfrac{1}{x^2}$ is
   (a) $1\dfrac{1}{9}$
   (b) $2\dfrac{4}{9}$
   (c) $3\dfrac{5}{9}$
   (d) $4\dfrac{7}{9}$

103. If $a^2 + b^2 - c^2 = 0$, then the value of $\dfrac{a^6 + b^6 - c^6}{a^2 b^2 c^2}$ is
   (a) 0
   (b) 3
   (c) –3
   (d) 1

104. If a, b, c, d are four non-negative real numbers and $a + b + c + d = 1$, then the maximum value of $ab + bc + cd$ is
   (a) 3
   (b) 1
   (c) $\dfrac{1}{2}$
   (d) $\dfrac{1}{4}$

105. If P and Q are the middle points of the sides AB and AC respectively of a triangle ABC. X is any point on BC and AX meets PQ at O, then the length AO is equal to
   (a) $\dfrac{1}{2} AX$
   (b) $\dfrac{1}{3} AX$
   (c) PQ
   (d) AP

106. ABCD is a parallelogram with AB = 10 cm, AD = 6 cm. The bisector of ∠A meets DC in E, and is extended to meet BC produced at F. CF is

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

107. The radius of a circle is 13 cm and AB is a chord which is at a distance of 12 cm from the centre. Then the length of the chord is
   (a) 16 cm
   (b) 10 cm
   (c) 8 cm
   (d) 15 cm

108. If $x = 2 + \sqrt{3}$, then the value of $x^3 - 4x + 2$ is
   (a) 1
   (b) 2
   (c) 3
   (d) 4

109. Radii of two circles are 7 cm and 3 cm. If one of these lies wholly inside the other, then the distance between their centres is
   (a) 4 cm
   (b) more than 5 cm
   (c) less than 4 cm
   (d) none of these

110. The sum of two angles is 135° and their difference is $\dfrac{\pi}{2}$. The value of the greater angle in radian is
   (a) $5\dfrac{\pi}{8}$
   (b) $\dfrac{\pi}{2}$
   (c) $3\dfrac{\pi}{8}$
   (d) $\dfrac{\pi}{8}$

111. A guard observes an enemy boat, from an observation tower at a height of 180 metre above sea level, to be at an angle of depression of 60°. The distance of the boat from the foot of the observation tower is
   (a) 180 metre
   (b) 180√3 metre
   (c) 60√3 metre
   (d) 60 metre

112. If $\tan 22\dfrac{1}{2} = x$, then the value of $\cos 67\dfrac{1}{2}$ is

   (a) $\dfrac{x}{\sqrt{x^2 + 1}}$
   (b) $\dfrac{1}{\sqrt{x^2 + 1}}$
   (c) $\dfrac{x}{\sqrt{x^2 - 1}}$
   (d) $\dfrac{1}{\sqrt{x^2 - 1}}$

113. If $\cos x = \tan y$ and $\cot(x - 40°) = \tan(50° - y)$, then the values of x and y are
   (a) 70°, 20°
   (b) 85°, 5°
   (c) 80°, 10°
   (d) 60°, 30°

114. If $f(x) = \cos^2 x + \sec^2 x$, then the minimum value of $f(x)$ is
   (a) 1
   (b) –1
   (c) –2
   (d) 2

115. Radius of the incircle of an equilateral △ABC of sides √3 units is
   (a) $\dfrac{3}{2}$ units
   (b) $\dfrac{1}{2}$ units
   (c) $\dfrac{3}{4}$ units
   (d) $\dfrac{1}{4}$ units

116. If $\sqrt{15 - x\sqrt{14}} = \sqrt{8} - \sqrt{7}$, then the value of x is
   (a) 2
   (b) √2
   (c) 4
   (d) 7

117. The next term of the series 325, 259, 204, 160, 127, 105.......is
   (a) 95
   (b) 94
   (c) 102
   (d) 101

118. The simplified form of $\dfrac{17 + 12\sqrt{2}}{3 + 2\sqrt{2}}$ is
   (a) $11\dfrac{2}{3}$
   (b) 19
   (c) $3 + 2\sqrt{2}$
   (d) $3 - 2\sqrt{2}$

119. The least number which must be subtracted from 2361 to make it a perfect square is
   (a) 77
   (b) 67
   (c) 57
   (d) 47

120. A and B can together do a piece of work in 6 days. If B can do the work by himself in 8 days, how many days will A take to do the work independently?
(a) 24 days   (b) 14 days
(c) 2 days   (d) 22 days

121. $\left(\frac{1}{10}\right)^{th}$ of $\left(\frac{2}{4}\right)^{th}$ of a number is 240. What is the number?
(a) 12   (b) 1200
(c) 4800   (d) 48

122. A dealer buys a table listed at ₹ 1,500 and gets successive discounts of 20% and 10%. He spends ₹ 20 on transportation and sells it at a profit of 20%. The selling price of the table is
(a) ₹ 1,320   (b) ₹ 1,350
(c) ₹ 1,360   (d) ₹ 1, 380

123. A pair of articles was bought for ₹ 37.40 at a discount of 15%. What must be the market price of each of the articles?
(a) ₹ 11   (b) ₹ 44
(c) ₹ 33   (d) ₹ 22

124. In a relief camp of 550 men, the food was enough for 28 days. If 150 more people joined in the camp, the same amount of food will be enough for
(a) 22 days   (b) 35 days
(c) 25 days   (d) 10 days

125. A bag contains ₹ 121 in the form of 1 rupee, 50 paise and 25 paise coins in the ratio 1 : 2 : 3. Find the number of each type of coins (1 Re, 50 P, 25 P respectively).
(a) 40, 92, 140   (b) 42, 92, 132
(c) 45, 90, 132   (d) 44, 88, 132

126. There were 984 mangoes on 12 trees of a mango-garden. What will be the average number of mangoes per tree after taking down 26 mangoes in average from 5 trees and 38 mangoes in average from 7 trees?
(a) 53   (b) 49
(c) 45   (d) 39

127. A does half as much work as B, and C does half as much work as A and B together. If C alone can finish the work in 40 days, then all together will finish to work in
(a) $13\frac{1}{3}$ days   (b) 15 days
(c) 20 days   (d) 30 days

128. A man sells an article at a profit of 25%. If he had bought it at 20% less

and sold it for ₹ 10.50 less, he would have gained 30%. Find the cost price (in rupees) of the article.
(a) 50   (b) 20
(c) 25   (d) 35

129. Rahul had 200 mangoes. He sold 30 mangoes at 25% gain, 40 mangoes at 20% gain, 60 mangoes at 10% gain and 70 mangoes at 10% loss. His net gain/loss percentage is
(a) 7% gain   (b) 7% loss
(c) $7\frac{1}{4}$% gain   (d) $7\frac{1}{4}$% loss

130. 13% of a number exceeds 5% of the same by 16. The number is
(a) 500   (b) 450
(c) 300   (d) 200

131. If A's Salary is $33\frac{1}{3}$% less than B's salary, by how much percentage is B's salary more than A's ?
(a) 20   (b) 25
(c) 50   (d) $16\frac{2}{3}$

132. An aeroplane covers a certain distance at a speed of 240 km/hr in 5 hours. To cover the same distance in $1\frac{2}{3}$ hours, it must travel at a speed (in km/hr) of
(a) 300   (b) 360
(c) 600   (d) 720

133. ₹ 25,000 is borrowed at compound interest at the rate of 3% for the first year, 4% for the second year and 5% for the third year. The amount to be paid after 3 years is
(a) ₹ 28,119   (b) ₹ 29,118
(c) ₹ 28,129   (d) ₹ 28,117

134. The average age of a class is 15.8 years. The average age of the boys in the class is 16.4 years, while that of the girls is 15.4 years. What is the ratio of boys to girls in the class?
(a) 1 : 2   (b) 3 : 4
(c) 3 : 5   (d) None of these

135. The perimeter of an isosceles triangle is 18 cm. Its lateral side and the base are in the ratio 7 : 4. The area of the triangle is
(a) $8\sqrt{5}$ cm^2 (b) $6\sqrt{5}$ cm^2
(c) $4\sqrt{5}$ cm^2 (d) $10\sqrt{5}$ cm^2

136. Areas of three adjacent faces of a rectangular parallelepiped are 12 sq.m., 15 sq. m. and 20 sq. m. The volume (in cu.m.) of the parallelepiped is

(a) 80   (b) 30
(c) 40   (d) 60

137. If the volumes of two cones are in the ratio 1 : 4 and the diameters of their bases are in the ratio 4 : 5, then the ratio of their heights is
(a) 1 : 25   (b) 25 : 16
(c) 16 : 125   (d) 25 : 64

138. The length of a hollow thick cylindrical metallic pipe is 6 cm and its total surface area including the surface at the ends is 98π sq. cm. If the outer diameter is 8 cm, then the inner diameter in cm is
(a) 6.5   (b) 7
(c) 5   (d) 6

139. An open box is made of wood 3 cm thick. Its external dimensions are 1.36 m, 1.06 m and 8.3 dm. The cost of painting the inner surface of the box at 50 paise per 100 sq. cm (in ₹) is
(a) 232   (b) 246
(c) 249   (d) 256

140. A spherical ball of lead 3 cm in diameter is melted and recast into three spherical balls. The diameter of two of these are 1.5 cm and 2cm respectively. The diameter of the third ball is
(a) 1.4 cm   (b) 1.8 cm
(c) 2.1 cm   (d) 2.5 cm

141. If the diameter of a circle is increased by 100%, its area is increased by
(a) 300%   (b) 400%
(c) 100%   (d) 200%

Directions : *The following graph shows the profits and Losses, (in thousand rupees) in a business for the years 2005-2010. Study the graph and answer questions (142-145).*

142. The amount of maximum profit as seen from the diagram is
(a) 2 thousand rupees
(b) 1.5 thousand rupees
(c) 1 thousand rupees
(d) 4.5 thousand rupees

143. The amount of total loss incurred during 2005-2010 is
   (a) 3 thousand rupees
   (b) 2.5 thousand rupees
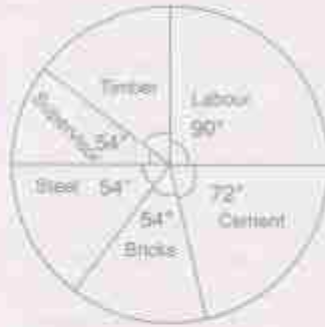   (c) 1.5 thousand rupees
   (d) 2 thousand rupees

144. The ratio of the maximum profit earned to the minimum loss suffered is
   (a) 4 : 3
   (b) 3 : 4
   (c) 9 : 2
   (d) 2 : 9

145. If the loss is x% of the profit for the years under study, then x is
   (a) 15
   (b) 25
   (c) 20
   (d) 19

Directions : The pie-graph given below shows the break-up of the cost of construction of a house. Assuming that the total cost of construction is ₹ 6,00,000, answer the Question Nos. (146-150).

146. The amount spent on cement is
   (a) ₹ 2,00, 000
   (b) ₹ 1,60,000
   (c) ₹ 1,20,000
   (d) ₹ 1,00,000

147. The amount spent on labour exceeds the amount spent on steel by
   (a) 5% of the total cost
   (b) 10% of the total cost
   (c) 12% of the total cost
   (d) 15% of the total cost

148. The amount spent on cement, steel and supervision is what percent of the total cost of construction?
   (a) 40%
   (b) 45%
   (c) 50%
   (d) 55%

149. The amount spent on labour exceeds the amount spent on supervision by
   (a) ₹ 2,00,000
   (b) ₹ 16,000
   (c) ₹ 1,20,000
   (d) ₹ 60,000

150. The amount spent on Timber is
   (a) ₹ 60,000
   (b) ₹ 90,000
   (c) ₹ 1,20,000
   (d) ₹ 36,000

English Language

Directions : In Question Nos. **151 to 155**, a part of the sentence is underlined. Below are given alternatives to the underlined part at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (d).

151. We did a test when the lights went out.
   (a) have been doing
   (b) were doing
   (c) had done
   (d) No improvement

152. The frightened convict wept for mercy.
   (a) mumbled
   (b) pleaded
   (c) shouted
   (d) No improvement

153. He put up a lot of work on that article.
   (a) put in
   (b) put down
   (c) put over
   (d) No improvement

154. The beggar was satisfied with his lowly meal.
   (a) miserly
   (b) mean
   (c) meagre
   (d) No improvement

155. I give key to my wrist watch everyday.
   (a) wind down
   (b) wound up
   (c) wind
   (d) No improvement

Directions : In Question Nos. **156 to 160**, out of the four alternatives choose the one which can be substituted for the given word/sentence.

156. Liable to be easily broken.
   (a) Weak
   (b) Brittle
   (c) Thin
   (d) Hard

157. One who is out to destroy the Government.
   (a) Anarchist
   (b) Villain
   (c) Criminal
   (d) Enemy

158. One who loves all mankind.
   (a) Philologist
   (b) Philosopher
   (c) Philanthropist
   (d) Philatelist

159. A person who cannot make a mistake.
   (a) Inexplicable
   (b) Inevitable
   (c) Indispensable
   (d) Infallible

160. One who eats human flesh.
   (a) Carnivore
   (b) Herbivore
   (c) Glutton
   (d) Cannibal

Directions : In Question Nos. **161 to 165**, there are four different words out of which one is correctly spelt. Find the correctly spelt word.

161. (a) Adolscence
   (b) Adolesence
   (c) Adolescence
   (d) Adolescense

162. (a) Deligerant
   (b) Belligerent
   (c) Bellijerent
   (d) Beligerrent

163. (a) Dynosaur
   (b) Dinosaur
   (c) Dinosor
   (d) Dienosaur

164. (a) Pariphery
   (b) Periphary
   (c) Pariphary
   (d) Periphery

165. (a) Consistency
   (b) Consistancy
   (c) Consistensy
   (d) Consistansy

Directions : In Question Nos. **166 to 175**, will have a passage with 10 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Jazz had its beginnings in song. Its roots lie deep in the tradition of Negro folk singing that once flourished throughout the rural Southland of the United States before the Civil War. The Negro, in those days, owned only a few crude musical instruments which he made for himself from boxes, barrels and brooms. His voice was his principal means of musical expression. Songs of work and play, trouble and hope, rose on rich and rhythmic voices everywhere in the South -from peddlers crying their wares in the countryside, form work gangs on the rail roads, form families gathered at the day's end to sing away their weariness in their unpainted cottages overlooking the cotton fields, from the way side churches singing with the sounds of Sabbath praise.

These were the voices which the early Negro musicians imitated and transferred to their horns when they taught themselves to play the discarded band instruments that came into hands at the close of the Civil War in the eighteen sixties. As played by their proud Negro owners, the instruments became extension of the human voice- "singing horns" which opened the way to Jazz. For this reason

there has always been a strong, singing quality to Jazz.

166. The Negro owned .... musical instruments.
(a) only a few (b) many
(c) no (d) the main

167. Where and when did Negro folk singing flourish?
(a) In the urban Southland of the United States after the Civil War.
(b) In the United States at the end of the Civil War.
(c) In the Southland during the Civil War.
(d) In the rural Southland of the United States before the Civil War.

168. Who sang the folk songs?
(a) The religious groups.
(b) Voices from everywhere in the South.
(c) The early Jazz musicians.
(d) The Negro musicians.

169. Where were the folk songs sung ?
(a) Everywhere.
(b) In the churches only.
(c) On the railroads, in the cotton fields and in the churches.
(d) Everywhere in the urban Southland.

170. Which of the following statements is true in the context of the passage?
The early Jazz musicians ....
(a) were familiar with the instruments they were learning to play.
(b) were not familiar with the instruments they were learning to play.
(c) knew about the rules of music.
(d) were taught to play the instruments.

171. What opened the way to Jazz ?
(a) The discarded musical instruments.
(b) The crude band instruments.
(c) The musical instruments made from boxes.
(d) "Singing horns".

172. Which of the following statements is false in the context of the passage?
(a) The early Jazz musicians extended the range of their horns.
(b) The band instruments became extensions of the human voice.
(c) Jazz has always had a strong, singing quality.
(d) The Negro's voice was not his principal means of musical expression.

173. The phrase 'sing away' in the passage means
(a) sing songs at the end of a tiring day
(b) sing sings to forget
(c) sing songs to make the worry disappear
(d) sing songs to draw attention

174. Which of the following is the most appropriate title for the passage?
(a) The tradition of Negro folk singing
(b) The 'singing horns'
(c) The early origins of Jazz.
(d) The history of Jazz.

175. Where do the roots of Jazz lie?
(a) In the songs sung in the urban Southland of the united states.
(b) In the songs sung on railroad gangs.
(c) In church hymns.
(d) In Negro folk singing.

Directions : In Question Nos. **176 to 180.** Some parts of the sentences have errors and some have none. Find out which part of a sentence has an error, choose option corresponding to the appropriate letter (a, b, c). If a sentence is free from error choose option (d)

176. In world of ours/ (a) one has to compete/ (b) for almost everything/ (c) No error. (d)

177. Bose is/ (a) more popular than/ (b) any student in the class/ (c) No Error (d)

178. How is Surinder/(a) going with/(b) his work?/ (c) No Error. (d)

179. It is said/(a) that this room is not being Opened/(b) for the last fifty years./(c) No Error. (d)

180. The Vice-Chancellor/(a) wants all vacancies/(b) to be filled up./(c) No Error. (d)

Directions : In Question Nos. **181 to 185,** sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct of the four.

181. It is difficult .... affection on her.
(a) showering (b) to shower
(c) shower (d) of showering

182. Our ancestors had immense difficulty .... procuring books.
(a) for (b) of
(c) in (d) on

183. I asked him if I .... borrow his car for a day.
(a) will
(b) could
(c) can
(d) should

184. Work hard so that you ....
(a) shall get good marks
(b) will get good marks
(c) may get good marks
(d) should get good marks

185. Many women in developing countries experience a cycle of poor health that .... before they are born.
(a) originates
(b) derives
(c) begins
(d) establishes

Directions : In Question Nos. **186 to 190,** out of the four alternatives, choose the one which best expresses the meaning of the given words.

186. infirm
(a) unsteady (b) timid
(c) nervous (d) weak

187. cordial
(a) affectionate (b) generous
(c) friendly (d) kind

188. sole
(a) only
(b) principal
(c) important
(d) immediate

189. systematically
(a) scientifically
(b) technically
(c) methodically
(d) symmetrically

190. wholesome
(a) complete (b) ripe
(c) sound (d) desirable

Directions : In Questions Nos. **191 to 195,** choose the word opposite in meaning to the given word.

191. approached
(a) retreated (b) reached
(c) arrived (d) reproached

192. culmination
(a) completion
(b) climax
(c) conclusion
(d) beginning

193. include
(a) embrace
(b) embody
(c) eliminate
(d) enclose

194. unpredictable
(a) pliable
(b) reliable
(c) possible
(d) potential

195. imperious
(a) agitated
(b) impulsive
(c) cautious
(d) reckless

Directions : In Question Nos. 196 to 200,
four alternatives are given for the
Idiom/Phrase underlined in the sentence.
Choose the alternative which best expresses
the meaning of the Idiom/Phrase.

196. She broke down in the middle for her
speech.
(a) could not proceed
(b) fell down
(c) became angry
(d) cried

197. He lays out fifty percent of his income
on bonds and shares.
(a) allots
(b) distributes
(c) donates
(d) spends

198. I will do the work if I am allowed a
free hand in the choice of
materials.
(a) complete liberty
(b) an expense account

(c) to employment to work
(d) unlimited funds

199. He is as hard as nail, never moved by
anything.
(a) tough
(b) emotionless
(c) physically strong
(d) hard working

200. If you want to be happy, cut your coat
according to your cloth.
(a) be honest in your dealings
(b) work according to your capacity
(c) live within your means
(d) don't be too ambitious

ANSWER KEY OF FCI EXAMINATION (MORNING SESSION)- 2013

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================================================================================
QNO.  ANS           QNO.  ANS           QNO.  ANS           QNO.  ANS
================================================================================
  1  [ A ]           51  [ C ]          101  [ A ]          151  [ B ]
  2  [ B ]           52  [ A ]          102  [ B ]          152  [ B ]
  3  [ A ]           53  [ B ]          103  [ C ]          153  [ A ]
  4  [ C ]           54  [ C ]          104  [ D ]          154  [ C ]
  5  [ B ]           55  [ C ]          105  [ A ]          155  [ C ]
  6  [ C ]           56  [ D ]          106  [ A ]          156  [ B ]
  7  [ A ]           57  [ A ]          107  [ B ]          157  [ A ]
  8  [ D ]           58  [ C ]          108  [ A ]          158  [ C ]
  9  [ B ]           59  [ B ]          109  [ C ]          159  [ D ]
 10  [ D ]           60  [ C ]          110  [ A ]          160  [ D ]
 11  [ C ]           61  [ A ]          111  [ C ]          161  [ C ]
 12  [ C ]           62  [ A ]          112  [ A ]          162  [ B ]
 13  [ C ]           63  [ B ]          113  [ B ]          163  [ B ]
 14  [ C ]           64  [ A ]          114  [ D ]          164  [ D ]
 15  [ A ]           65  [ A ]          115  [ B ]          165  [ A ]
 16  [ D ]           66  [ D ]          116  [ C ]          166  [ A ]
 17  [ B ]           67  [ D ]          117  [ B ]          167  [ D ]
 18  [ B ]           68  [ C ]          118  [ C ]          168  [ B ]
 19  [ B ]           69  [ A ]          119  [ C ]          169  [ C ]
 20  [ C ]           70  [ C ]          120  [ A ]          170  [ B ]
 21  [ B ]           71  [ D ]          121  [ C ]          171  [ D ]
 22  [ A ]           72  [ B ]          122  [ A ]          172  [ D ]
 23  [ B ]           73  [ D ]          123  [ D ]          173  [ B ]
 24  [ C ]           74  [ D ]          124  [ A ]          174  [ C ]
 25  [ B ]           75  [ C ]          125  [ D ]          175  [ D ]
 26  [ C ]           76  [ C ]          126  [ B ]          176  [ A ]
 27  [ D ]           77  [ B ]          127  [ A ]          177  [ C ]
 28  [ B ]           78  [ B ]          128  [ A ]          178  [ B ]
 29  [ B ]           79  [ C ]          129  [ C ]          179  [ B ]
 30  [ C ]           80  [ B ]          130  [ D ]          180  [ C ]
 31  [ A ]           81  [ D ]          131  [ C ]          181  [ B ]
 32  [ B ]           82  [ A ]          132  [ D ]          182  [ C ]
 33  [ B ]           83  [ A ]          133  [ A ]          183  [ B ]
 34  [ C ]           84  [ C ]          134  [ D ]          184  [ C ]
 35  [ B ]           85  [ A ]          135  [ B ]          185  [ C ]
 36  [ A ]           86  [ D ]          136  [ D ]          186  [ D ]
 37  [ C ]           87  [ A ]          137  [ D ]          187  [ C ]
 38  [ B ]           88  [ C ]          138  [ D ]          188  [ A ]
 39  [ D ]           89  [ D ]          139  [ C ]          189  [ C ]
 40  [ C ]           90  [ C ]          140  [ D ]          190  [ C ]
 41  [ D ]           91  [ C ]          141  [ A ]          191  [ A ]
 42  [ D ]           92  [ A ]          142  [ D ]          192  [ D ]
 43  [ B ]           93  [ C ]          143  [ B ]          193  [ C ]
 44  [ C ]           94  [ D ]          144  [ C ]          194  [ B ]
 45  [ D ]           95  [ A ]          145  [ C ]          195  [ C ]
 46  [ B ]           96  [ C ]          146  [ C ]          196  [ A ]
 47  [ C ]           97  [ B ]          147  [ B ]          197  [ D ]
 48  [ B ]           98  [ C ]          148  [ C ]          198  [ A ]
 49  [ B ]           99  [ C ]          149  [ D ]          199  [ B ]
 50  [ D ]          100  [ C ]          150  [ A ]          200  [ C ]
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