SSC CGLE MODEL PAPER – 1

Part – A: General Intelligence & Reasoning

Directions (1-9): In each of the following questions, select the related word / letters / number from the given alternatives.

- 1. Yes: No:: Alive : ?
 - 1) Life
- 2) Live
- 3) Dead
- 4) Funeral
- 2. Today: Day before Yesterday::

January:?

- 1) December
- 2) February
- 3) November
- 4) March
- 3. Man: House: :?
 - 1) Cat: Mouse
- 2) Beast: Den
- 3) Tree: Plant
- 4) Cage: Rat
- 4. AD: NQ: : EH:?
 - 1) RT
- 2) RU
- 3) RS
- 4) RV

- 5. AZB: BYC: : MVN : ?
 - 1) NUO
- 2) NVO
- 3) NVQ
- 4) NRO
- 6. BEHI: JMPQ: : KNQR : ?
 - 1) SUXY
- 2) RUXY
- 3) RVXY
- 4) RUYX
- **7.** 625: 25: : 225 : ?
 - 1) 13
- 2) 14
- 3) 15
- 4) 16
- 8. 49: 216: : 36:?
 - 1) 25
- 2) 125
- 3) 625
- 4) 3125
- 9. 2, 4, 2:4, 16, 4::1, 1, 1:?
 - 1) 2, 4, 2
- 2) 1, 1, 1
- 3) 2, 2, 2
- 4) 2, 13, 2

Directions (10-18): In each of the following questions, select the one which is different from the other three responses.

- 10. 1) Wood
- 2) Cork
- 3) Stone
- 4) Paper
- **11.** 1) Rain
- 2) Cloud
- 3) Mist
- 4) Fog
- **12**. 1) Lawyer
- 2) Carpenter
- 3) Doctor
- 4) Engineer
- **13.** 1) M
- 2) N
- 3) O
- 4) P
- **14.** 1) CFH
- 2) LOQ
- 3) XAC
- 4) KMO
- **15.** 1) PCAQ
- 2) LKIN
- 3) XGEZ
- 4) DWUF
- **16.** 1) 23
- 2) 37
- 3)9
- 4) 17

- **17.** 1) 92 99
- 2)48 54
- 3)58-64
- 4) 89 95
- **18.** 1) 13 31
- 2)71 88
- 3)45-54
- 4) 16 61

Directions: Arrange the following words according to English Dictionary.

- 19. (A) PREMONITION
 - (B) PRELUDE
 - (C) PREMICE
 - (D) PRELIMINARY
 - (E) PREMIUM
 - 1) DBAEC
- 2) BDCEA
- 3) DBCEA
- 4) BDACE

Directions (20-21): In each of the following questions, which one of the given responses would be a meaningful order of the following words in ascending order?

20. 1. Word

2. Paragraph

3. Sentence

4. Letter

1) 1, 3, 4, 2

2) 1, 4, 3, 2

3) 3, 4, 1, 2

4) 4, 1, 3, 2

21. 1. Stem

2. Flower

3. Root

4. Leaves

5. Fruit

1) 3, 1, 4, 2, 5

2) 3, 1, 5, 2, 4

3) 4, 3, 1, 5, 2

4) 5, 2, 1, 4, 3

22. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

a _ bcaa _ caa __

1) a b c c

2) a b a c

3) a a b c

4) b a a c

Directions (Q. 23 - 26): In each of the following questions, choose the correct alternative from the given ones that will complete the series. 23. J, Q, I, R, H, S,?,?

1) F T

2) G T

3) H U

4) K T

24. CFL, EIK, G J, IOI, ?

1) KRH

2) KRJ

3) JRH

4) KQH

25. 256, 16, 4,?

1)8

2)6

3) 2

4)4

26. 1, 6, 13, 22, ?, 46

1) 32

2) 33

3) 40

4)43

27. Find the wrong number in the given series.

41, 41, 42, 44, 48, 51, 56

1) 48

2) 51

3) 56

4)41

- 28. A and B are the young ones of C. If C is the mother of B, but A is not the daughter of C, then what is the relationship between C and A?
 - 1) Nephew and Aunty
 - 2) Brother and Sister
 - 3) Mother and Son
 - 4) Mother and Aunty
- 29. There are five friends
 Shailendra, Keshav, Madhav,
 Ashish and Rakesh. Shailendra
 is shorter than Keshav but
 taller than Rakesh, Madhav is
 the tallest. Ashish is a little
 shorter than Keshav and little
 taller than Shailendra. Who is
 the shortest?
 - 1) Rakesh
- 2) Shailendra
- 3) Ashish
- 4) Keshav
- 30. From the given alternatives select the word which cannot

be formed using the letters of given word.

- 1) Rakesh
- 2) Shailendra
- 3) Ashish
- 4) Keshav
- 31. A group of alphabets are given with each being assigned a number. These have to be unscrambled into a meaningful word and correct order of letters may be indicated from the given responses.

ARKHS

1 2 3 4 5

- 1) 5 2 1 4 3
- 2) 5 3 1 2 4
- 3) 5 4 1 2 3
- 4) 5 4 2 1 3
- 32. PROHIBITION is coded as 68032124205. How will you code INHIBITION?
 - 1) 2531214205
 - 2) 2532125205
 - 3) 2542124205
 - 4) 2532124205

33. Which interchange of signs or numbers will make the following equation correct?

$$(7+2) \times 3 \times 4 - 1 = 20$$

- 1) 2 and 3
- $2) \times and -$
- 3) 7 and 3
- 4) + and \times
- 34. Some equations are solved on the basis of a certain system.

 On the same basis, find out the correct answer for the unsolved equation.

$$7 \times 8 \times 3 = 873$$

$$5 \times 8 \times 4 = 954$$

$$2 \times 7 \times 5 = ?$$

- 1) 572
- 2) 752
- 3) 257
- 4) 725
- 35. Select the correct combination of mathematical signs to replace signs and to balance the given equation.

- 1) ÷+=×
- $2) + \div \times =$
- $3) \times \div + =$
- 4) +-==

- Directions (36-37): In each of the following equations, select the missing number from the given responses.
- 36. 10 85 8
 - 7 54 7
 - 8 ? 9
 - 1) 72
- 2)77
- 3) 74
- 4) 79
- 37. 12 13 16
 - 3 5 6
 - 8 8 ?
 - 288 520 384
 - 1) 4
- 2)5
- 3) 3
- 4)6
- 38. I went 15 m to the north, then I turned west and covered 10 m, then I turned south and covered 5 m and then turned east and covered 10 m. In which direction am I from the starting point?
 - 1) East
- 2) West

- 3) North 4) South
- 39. A person moves 400 metres to East. He turns to his left and moves 400 metres. Then again he turns to his left and walks 400 metres. Finally he turns to his right and moves 100 metres. Now how far away in metres, he is from the starting point?
 - 1) 1300
- 2)900
- 3) 800
- 4) 500
- 40. Two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the conclusions, given any, follow from the given statements. **Indicate** your answer.

Statements: Every bottle with a red label contains fruit juice. Fruit juice is safe to drink.

Conclusions:

I: It is safe to drink the contents of bottles with red label.

II: It is not safe to drink from bottles with green label.

- 1) Only I follows
- 2) Only II follows
- 3) Neither I nor II follows
- 4) Both I and II follow
- 41. Two statements are given followed by four conclusions I, II, III and IV. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given **Indicate** statements. vour answer.

Statements:

- (A) All clerks are typists.
- (B) Some typists are stenos.

Conclusions:

- I. Some stenos are clerks.
- II. No steno is a clerk.
- III. All typists are clerks.
- IV. All clerks are stenos.
- 1) All the conclusions follow.
- 2) None of conclusions follow.
- 3) Either I or II follows.
- 4) Only IV follows.
- 42. A solid cube of 4 inches has been painted red, green and black on pair of opposite faces.

 It has been cut into one inch cubes. How many cubes have no face painted?
 - 1)0
- 2)4
- 3)8
- 4) 16
- 43. Six friends A, B, C, D, E and F are sitting in a row facing east.

 C is between A and E. B is just to the right of E but left of D. F

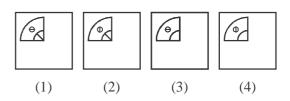
is not at the right end. Who is to the left of A?

- 1) E
- 2) C
- 3) D
- 4) F
- 44. If KEDGY is coded as EKDYG then how will LIGHT be coded?
 - 1) ILHTG
- 2) ILGHT
- 3) ILGTH
- 4) THGIL
- 45. Which answer figure will complete the pattern in the question figure?

Question Figure:



Answer Figures:

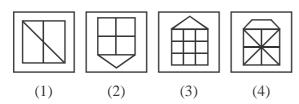


46. Select the answer figure in which the question figure is hidden / embedded.

Question Figure:



Answer Figures:

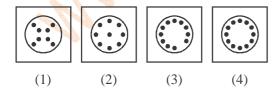


47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

Question Figures:



Answer Figures:

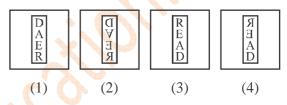


48. Which of the answer figure is exactly the mirror image of the given figure, when the mirror is held on the line AB?

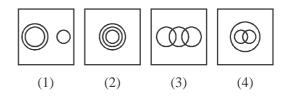
Question Figures:



Answer Figures:



49. Which one of the following diagrams best depicts the relationship among Days, Year and Months?



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 3 and that of Matrix II are numbered from 3 to 7. A letter from these matrices can be represented first by its row and next by its column. e.g., 'A' can be represented by 00, 33, 21, etc., and 'M' can be represented by 22, 30, 13 etc., Identify the set for the word MEAL.

MATRIX I

	0	1	2	3
0	A	M	T	I
1	T	I	A	M
2	I	A	M	T
3	M	T	I	A

MATRIX II

	4	5	6	7
4	E	В	L	U
5	L	U	Е	В
6	U	Е	В	L
7	В	L	U	Е

- 1) 13, 44, 23, 46
- 2) 22, 64, 54, 65
- 3) 30, 56, 21, 67

4) 01, 65, 12, 31

Part – B: General Awareness

- 51. Which one of the following is not an objective of Fiscal Policy in India?
 - 1) Full Employment
 - 2) Price Stability
 - 3) Equitable Distribution of Wealth and Incomes
 - 4) Regulation of International Trade
- 52. Which one of the following is not a quantitative credit control measure of a Central Bank?
 - 1) Bank Rate Policy
 - 2) Open Market Operations
 - 3) Cash Reserve Ratio
 - 4) Moral Suasion
- 53. In which market structure is the demand curve of the market represented curve of

the market represented by the demand curve of the firm?

- 1) Monopoly
- 2) Oligopoly
- 3) Duopoly
- 4) Perfect Competition

54. 'Mixed Farming' means?

- 1) Sowing of both cash and food crops.
- 2) Sowing of two or more crops in the same field.
- 3) Sowing of two or more plants in alternative years.
- 4) Rearing of cattle and agriculture.

55. Which of the following is deducted from NNP to arrive at NI?

- 1) Indirect Tax
- 2) Capital consumption allowance
- 3) Subsidy

4) Interest

56. The first woman Governor of a State in free India was?

- 1) Mrs. Sarojini Naidu
- 2) Mrs. Sucheta Kriplani
- 3) Mrs. Indira Gandi
- 4) Mrs. Vijaya Lakshmi Pandit

57. Which of the following does not come under the purview of the Election Commission?

- 1) The conduct the election of PM of India.
- 2) To conduct the election of President of India.
- 3) To give recognition to Political Parties.
- 4) To assign election symbols to the Political Parties.

58. Which of the following is not associated with parliament?

- 1) Prorogue
- 2) Adjournment

- 3) Dissolve 4) Dismiss
- 59. Which is a Permanent Institution?
 - 1) Family
 - 2) Political Party
 - 3) Red Cross
 - 4) UNO
- 60. Which one of the following is a hindrance to liberty and independence?
 - 1) Centralisation
 - 2) Decentralisation
 - 3) Privatisation
 - 4) Nationalisation
- 61. Mohammad-bin-Tughlaq was a failure because?
 - 1) He was mad.
 - 2) He was not a practical statesman.
 - 3) He transferred the capital city.
 - 4) He waged war with China.

- 62. Find out the correct match of the following.
 - 1) Asaf Khan Akbar
 - 2) Adam Khan Akbar
 - 3) Bairam Khan Akbar
 - 4) Shaista Khan Akbar
- 63. Which of the following States was the top tourist destination in the country in 2012 as per the data available with the Tourism Ministry?
 - 1) Uttar Pradesh
 - 2) Andhra Pradesh
 - 3) Tamil Nadu
 - 4) Rajasthan
- 64. Who introduced 'doctrine of lapse'?
 - 1) Lord Wellesley
 - 2) Lord Curzon
 - 3) Lord Dalhousie
 - 4) Lord Lytton

65. Which one of the following are correctly matched?

Persons Events

- Sultan Mahmud Sack of Somnath.
- 2. Mohammad Ghouri -Conquest of Sind.
- 3. Alauddin Khilji Revolt in Bengal.
- 4. Mohammad Bin Tughlaq-Chengiz invasion.
- 1) 1 and 3 2) 2 only
- 3) 1 only 4) 2 and 4

66. Tides are caused by the gravitational pull of the?

- 1) Earth on the Moon
- 2) Earth on the Sun
- 3) Sun and Moon on the Earth
- 4) Moon on the Earth

67. Dry farming in India is extensively practiced in?

1) Kanara Plains

- 2) Deccan Plateau
- 3) Coromandal Plains
- 4) Ganga Plains

68. Match the following:

b. Paris

Towns Rivers a. Jabalpur 1. Ravi

c. London 3. Siene

2. Narmada

- d. Lahore 4. Thames
 - a b c d
- 1) 2 3 4 1
- 2) 3 2 1 4
- 3) 1 4 3 2
- 4) 4 1 2 3

69. The Kulu Valley is situated between?

- 1) Ladakh and Pirpanjal
- 2) Ranjoti and Nag Tibba
- 3) Lesser Himalayas and Siwalik
- 4) Dhauladhar and Pierpanjal

70. Terrace farming is done?

- 1) On the slope of hills
- 2) In dry regions
- 3) On rooftops
- 4) On mountain tops
- 71. The colour change in the Chameleon is due to the presence of?
 - 1) Hemoglobin
 - 2) Chromatophore
 - 3) Chlorophyll
 - 4) Pneumatophore
- 72. The deficiency of iodine leads to?
 - 1) Hyperthyroidism
 - 2) Goiter
 - 3) Midgut
 - 4) Diabetes
- 73. Two richest known sources of edible protein are?
 - 1) Meat and eggs

- 2) Some algae and other microorganisms
- 3) Soybean and groundnut
- 4) Milk and leafy vegetables
- 74. The saliva helps in the digestion of?
 - 1) Proteins 2) Starch
 - 3) Fiber 4) Fats
- 75. Which of the following correctly explains the phenomenon of "Test Tube Baby"?
 - 1) When every process of embryo formation is in the test tube.
 - 2) When the embryo develops in a test tube.
 - 3) When the fertilisation is external and development is internal.
 - 4) When the fertilisation is internal and development is external.

76. Heart attack occurs due to?

- 1) Bacterial attack on the heart
- 2) Stopping of heart beat
- 3) Lack of supply of blood to the heart itself
- 4) Impairment of heart's working due to unknown reasons
- 77. Direct conversion of solar energy with the use of a photo voltaic cell results in the production of?
- 1) Optical energy
- 2) Electrical energy
- 3) Thermal energy
- 4) Mechanical energy
- 78. A man inside an artificial satellite feels weightlessness because the force of attraction due to earth is?
 - 1) Zero at that place.
 - 2) Is balanced by the force of attraction due to moon.
 - 3) Equal to the centripetal force.

4) Non-effective due to particular design of the satellite.

79. When a detergent is added to pure water, its surface tension?

- 1) Increases
- 2) Decreases
- 3) Remains constant
- 4) Becomes infinite

80. 'Super nova' is?

- 1) A comet
- 2) An asteroid
- 3) An exploding Star
- 4) A black hole

81. The device that converts computer output for transmission over telephone lines is called?

- 1) Interface 2) Interpreter
- 3) Modem 4) I/O port

82. A 'bug' in a programme is a?

- 1) Statement
- 2) Error
- 3) Signature
- 4) Both (2) and (3)

83. Wood spirit is?

- 1) Methyl alcohol
- 2) Ethyl alcohol
- 3) Butyl alcohol
- 4) Propyl alcohol
- 84. Which of the following processes is used for the production of Biodiesel?
 - 1) Transamination
 - 2) Transcription
 - 3) Transesterification
 - 4) Translation

85. One property of ammonia is?

- 1) It is insoluble in water
- 2) It is an odorless gas

- 3) It is a yellowish gas
- 4) Its aqueous solution turns red litmus blue

86. Find the odd one?

- 1) Marble
- 2) Chalk
- 3) Limestone
- 4) Slaked lime
- 87. Biodegradable wastes can usually be converted into useful substances with the help of?
 - 1) Bacteria
 - 2) Nuclear proteins
 - 3) Radioactive substances
 - 4) Viruses
- 88. Of the following which one pollutes the air of a big city?
 - 1) Copper
- 2) Chromium
- 3) Lead
- 4) Calcium
- 89. Ultra violet light of Sun's radiation is prevented from

reaching the earth's atmosphere by the layer of?

- 1) Oxygen
- 2) Hydrogen
- 3) Ozone
- 4) Helium
- 90. Greater population can be supported on the earth only if we eat more?
 - 1) Mutton
- 2) Eggs
- 3) Plant products 4) Beef
- 91. Varahamihira is?
 - 1) An astronaut
 - 2) A space shuttle
 - 3) A power station
 - 4) An ancient astronomer
- 92. "Fire-fighting clothes" are made from?
 - 1) Mica
- 2) Asbestos
- 3) Talc
- 4) Steatite
- 93. 'Multinational' is?

- 1) A person who has visited several countries.
- 2) A company operating in several countries.
- 3) A person having citizenship of several countries.
- 4) An organisation setup to help developing countries.
- 94. Tummalapalli in Andhra
 Pradesh has recently come on
 the world map for its largest?
 - 1) Uranium deposits
 - 2) Tungsten deposits
 - 3) Coal deposits
 - 4) Bauxite ore deposits
- 95. As per the provisional result of the 2011 Census, the density of population in India is?
 - 1) 325
- 2) 352
- 3) 372
- 4) 382
- 96. Japan on August 6, 2013 unveiled its biggest warship

since World War II which has a flight deck that is nearly 250 metres long and is designed to carry up to 14 helicopters. The ship has been named?

- 1) Kirobo
- 2) Wakata
- 3) Izumo
- 4) Qishtu
- 97. 'Rath Yantra' at puri is celebrated in honour of?
 - 1) Lord Rama
 - 2) Lord Shiva
 - 3) Lord Jagannath
 - 4) Lord Vishnu
- 98. Who among the following was appointed as the new Director of the National School of Drama in July 2013?
 - 1) Waman Kendre
 - 2) Nandita Das
 - 3) Mrinal Pande
 - 4) Tripurari Sharan

- 99. The five permanent members of the United Nations Security Council are?
 - 1) Canada, China, France, U.S.A., U.K.
 - 2) China, France, Russia, U.S.A., U.K.
 - 3) Japan, Germany, Russia, U.S.A., U.K.
 - 4) Germany, China, Russia, U.S.A., U.K.
- 100. Which city has the Headquarters of two railway zones in India?
 - 1) Hubli 2) New Delhi
 - 3) Mumbai 4) Jabalpur

Part – C: Quantitative Aptitude

- 101. The number of times 2 is used while writing the numbers from 1 to 100 is?
 - 1) 21
- 2) 20
- 3) 19
- 4) 18
- 102. $0.38 \times 7.2 = 2.736$, then 38×10^{-2} 0.0072 is?
 - 1) 2766
- 2) 0.2736
- 3) 27.36
- 4) 273.6
- 103. If the product of two numbers is 2160 and HCF is 6, then the ratio of HCF and LCM is?
 - 1) 21: 60
- 2) 60: 21
- 3) 1: 60
- 4) 60: 1
- 104. The next term of the sequence 3, 14, 39,.... is?
 - 1) 42
- 2) 53
- 3) 65
- 4)84

- 105. The value of $\frac{\sqrt{0.2304}}{\sqrt{0.2304}} + \frac{\sqrt{0.1764}}{\sqrt{0.1764}}$
 - 1) 6
- 2) 28
- 3) 18
- 4) 15
- 106. P and Q can finish a work in 15 and 10 days respectively. Q starts the work and leaves it after 5 days. The number of days in which P can complete the work is?
 - 1) $6\frac{1}{2}$ days 2) $7\frac{1}{2}$ days
 - 3) 8 days
- 4) 9 days
- 107. A tank can be filled by pipe A in 2 hours and by pipe B in 3 hours. An outlet C can empty the tank in 6 hours. If all the three are opened simultaneously, the tank will be filled in?
 - 1) 1 hour
- 2) $1\frac{1}{2}$ hours

- 3) 2 hours
- 4) $1\frac{1}{3}$ hours
- 108. The difference (in rupees) in discounts between two successive discounts of 8% each and a single discount of 16% on Rs.1000 is?
 - 1) 64
- 2) 6.40
- 3) 4.60
- 4)46
- 109. If a shopkeeper marks the price of goods 50% more than their cost price and allows a discount of 40%, what is his gain or loss percent?
 - 1) Gain 10%
- 2) Gain 15%
- 3) Loss 15%
- 4) Loss 10%
- 9: 16. If each number is increased by 15, then the ratio becomes 2: 3. The numbers are?
 - 1) 18 and 32
- 2) 24 and 36
- 3) 36 and 48
- 4) 27 and 48

- and aluminum in an alloy are in the ratio 2: 3: 7. In the alloy weighting 48 kg, the difference in weights of zinc and aluminum is?
 - 1) 5 kg
- 2) 16 kg
- 3) 20 kg
- 4) 4 kg
- 112. A cricketer scored 180 runs in the first test and 258 runs in the second. How many runs should he score in the third test so that his average score in the three tests would be 230 runs?
 - 1) 210
- 2) 245
- 3) 270
- 4) 252
- persons is increased by 2.5 kg when one of them whose weight is 56 kg is replaced by a new man. The weight of the new man is?

- 1) 20 kg
- 2) 64 kg
- 3) 58.5 kg
- 4) 76 kg
- 114. A bought a computer system for 40000 and sold it to B at a loss of 4%. If B sold it to C for Rs. 40,320 profit percent for B is?
 - 1) 4
- 2)5
- 3) 3
- 4)6
- 115. The difference between the selling price of a shirt sold at profits 15% and 17% is 3. Then the cost price of the shirt is?
 - 1) Rs. 200
- 2) Rs. 150
- 3) Rs. 175
- 4) Rs. 180
- 116. Out of a total population of 5000 people in a village, men increased by 10% and women by 15%. Now the total population becomes 5600 in a

year. The women population in the village was originally?

- 1) 2,000
- 2)3,000
- 3) 4,000
- 4) 3,500
- 117. Ratan's expenditure and savings are in the ratio 5: 1. If his salary is increased by 25% and savings by 15%, the percentage increase in his expenditure is?
 - 1) 18%
- 2) 27%
- 3) 28%
- 4) 32%
- on cycle at 7.30 a.m. at a speed of 8 km/hr. After 30 minutes, cyclist B started from the same place but with a speed of 10 km/hr. At what time did B overtake A?
 - 1) 8 a.m.
- 2) 10 a.m.
- 3) 9 a.m.
- 4) 9.30 a.m.

- 119. If the simple interest on a certain sum of money for three years is Rs.225 and the compound interest on the same sum at the same rate for 2 years is Rs.153, then the principal invested, in rupees, is?
 - 1) 1,500
- 2) 2,250
- 3) 3,000
- 4) 1,875
- 120. If from a point inside an equilateral triangle, the lengths of perpendiculars on the sides are 5 cm, 10 cm, and 15 cm, respectively, then the height of the triangle is?
 - 1) 10 cm
- 2) 30 cm
- 3) 40 cm
- 4) 20 cm
- 121. The areas of a square and a rectangle with equal perimeter are denoted by S and R respectively. Which one of the following is correct?

- 1) S = R
- 2) S > R
- 3) S < R
- 4) S = 2R
- 122. If the radius of a circle is increased by 10%, then percentage of increase of its area is?
 - 1) 12
- 2) 15
- 3) 17
- 4) 21
- 123. Semi-vertical angle of a right circular cone is 30°. If the ratio of the numerical value of the volume and slant surface area be 1: 3, the radius of the base is?
 - 1) 1 unit
- 2) 2 units
- 3) $\sqrt{3}$ units
- 4) $\frac{2}{\sqrt{3}}$ units
- 124. If the height and radius of a hemisphere and a right circular cylinder are respectively equal, then ratio of the volume of the

hemisphere and the cylinder is?

- 1) 2: 3
- 2) 3: 2
- 3) 1: 2
- 4) 1: 1

125. Each of the five angles of a polygon is equal to 172° and the other angles are 160° each. The number of sides of the polygon is?

- 1) 20
- 2)21
- 3) 22
- 4) 23

126. The volume of a solid is numerically hemisphere equal to its total surface area. Its radius is?

- 3) $4\frac{1}{2}$ units

127. If x = 2t and $y = \frac{2t-1}{3}$, then what is the value of t for which x = y holds?

- 1) $\frac{1}{4}$
- 2) $-\frac{1}{2}$

128. If x and y be two real numbers and x + y = 8, then the greatest value of xy is?

- 1) 12
- 2) 15
- 3) 16
- 4) 18

129. If $\sqrt{\frac{\sqrt{5}+1}{\sqrt{5}-1}}$, value of $x^2 + x -$

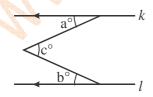
1 is?

- 1) $\sqrt{5}$
- 2) 2
- 3) $-\sqrt{5}$ 4) $-\sqrt{5}+1$

130. The value of k for which the system of equations x + 2y = 5, 3x + ky + 15 = 0 has no solution, is?

- 1) 6
- 2) 6
- 3) 2
- 4) 2

- 131. Equations of the straight lines containing two sides of a right angled triangle are given by y = x and y = 0. Of the following, the equation which cannot represent the third side is?
 - 1) x = 5
- 2) x = 2
- 3) x = 0
- 4) x = -3
- 132. If in any triangle ABC, the base BC is produced in both ways, the sum of the exterior angles at B and C is?
 - 1) πA
- 2) $\pi + A$
- 3) $\frac{\pi}{2} + A$
- 133. In the figure below, lines k and I are parallel. The value of $a^{\circ} + b^{\circ}$ is?



- 1) 45°
- 2) 100°
- 3) 180°
- $4)360^{\circ}$

- 134. SR is a direct common tangent to the circles of radii 8 cm and 3 cm respectively, their centres being 13 cm apart. If the points S and R are the respective points of contract, then the length of SR is?
 - 1) 12 cm
- 2) 11 cm
- 3) 17 cm
- 4) 10 cm
- 135. The bisector of the angle BAC of a triangle ABC intersects the side BC at the point D and meets the circumcircle of the \triangle **ABC** at **E**. Then, it is always true that

 $AB \cdot BC + DE \cdot AE = ?$

- 1) AD²
- 2) AE²
- 3) CE²
- 4) CD²
- 136. In \triangle ABC, \angle B = 90°, \angle C = 45° and D is the midpoint of AC. If AC = $4\sqrt{2}$ units, then BD is?
 - 1) $2\sqrt{2}$ units 2) $\sqrt{2}$ units

3)
$$\frac{5}{2}$$
 units 4) 2 units

137. $\sin^2 21^\circ + \sin^2 69^\circ$ is equal to?

- 1) 1
- 2)0
- 3) 2sin²21°
- 4) 2sin²69°

138. The angles of elevation of the top of a tower from two points at a distance x and y from the of foot the tower are complementary. The height of the tower is?

1)
$$\sqrt{\frac{x}{y}}$$

$$2) \sqrt{x+y}$$

139. The value of $\sin^2 5^\circ + \sin^2 25^\circ +$ $\sin^2 45^\circ + \sin^2 65^\circ + \sin^2 85^\circ$?

- 1) 1.5
- 3) 2.5
- 4)3

140. If $\sin (A + B) = 1$ and $\cos (A - B) = 1$

B) =
$$\frac{\sqrt{3}}{2}$$
, where **A** and **B** are

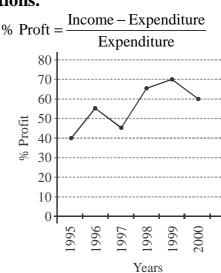
positive acute angles with, then A and B are?

- 1) $A = 75^{\circ}, B = 15^{\circ}$
- 2) $A = 60^{\circ}, B = 30^{\circ}$
- 3) $A = 45^{\circ}$, $B = 45^{\circ}$
- 4) None of these3

141. If $3 \sin^2 \alpha + 7\cos^2 \alpha = 4$ then the value of tan α is (where $0 < \alpha$ $< 90^{\circ}$)?

- 2) $\sqrt{5}$

Directions: (142-145): The following line-graph gives the annual percent profit earned by company during the period 1995 2000. Study the line graph and the answer questions.



- 142. Profit earned by the company is maximum in the year?
 - 1) 1995
- 2) 1999
- 3) 2000
- 4) 1997
- 143. The period in which the profit of the company has increased fastest is?
 - 1) 1997-98
- 2) 1995-96
- 3) 1998-99
- 4) 1996-97
- 144. The range of profit made by the company is (in percentile)?
 - 1) 25
- 2) 20
- 3) 15
- 4) 30
- 145. The expenditure of the company during the year 1995 was 20 thousand crores. Then the income of the company in that year was (in thousand crores)?
 - 1) 15
- 2) 28
- 3) 25
- 4) 12

Directions (146-150): Monthly budget plan of a man, having monthly income Rs.18000 is given below in the pie-chart. Study the pie-chart and answer the questions.



- 146. Monthly expenditure on food, in rupees, is?
 - 1) 3,500
- 2) 5,250
- 3) 4,000
- 4) 3,250
- 147. Monthly savings is more than the monthly expenditure on education by?
 - 1) 750
- 2) 500
- 3) 700
- 4) 450
- 148. Monthly expenditure on education is less than that on rent by?

- 1) Rs.750
- 2) Rs.500
- 3) Rs.250
- 4) Rs.200
- 149. Expenditure on rent is more than that on miscellaneous purpose by?
 - 1) $25\frac{1}{3}$
- 2) $42\frac{6}{7}$
- 3) 62.5 %
- 4) 75%
- 150. Monthly expenditure on miscellaneous, in rupees, is?
 - 1) 2,000
- 2) 3,500
- 3) 2,500
- 4) 3,250

Part – D: English Comprehension

- Directions (151-155): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is No Error your answer is (4)
- **151.** He is a university (1) / but of his three sons (2) / neither has any merit. (3) / No error. (4)
- **152.** After knowing truth, (1) / they took the right decision (2) / in the matter. (3) / No error. (4)
- 153. It is time you (1) / decide on your next (2) / course of action.(3) / No error. (4)
- **154.** He who has suffered most (1) / for the cause, (2) / let him speak. (3) / No error.(4)

155. A cup of c	offee (1) / is an	1) Didn't ha	ve to do
excellent com	plement (2) / to	2) Hadn't to	do
smoked salmo	n. (3) / No error	3) Mightn't	have done
(4).		4) Mustn't h	nave done
Direction (156-16)	0): Sentences are nks to be filled in	159. He went _	Sea alone?
_	copriate word(s).	1) In	2) To
	ves are suggested	3) Into	4) On
for each ques	tion. Choose the	N/V	
correct altern	ative out of the	160. The	of our civilization
four.		from an ag	ricultural society to
156. The hotel	was not too	today's c	omplex industrial
expensive?		world was	s accompanied by
1) Was it?	2) Wasn't it?	war?	
3) Is it?	4) Isn't it?	1) Adjustme	ent
		2) Migration	ı
157. Like huma	ns, zoo animals	3) Route	
must have a dentist their		4) Metamor	phosis
teeth?			
1) Fill	2) Filled	Directions (1	61-165): In the
3) Filling	4) To be filled	following q	uestions choose the
		word oppo	site in meaning to

158. It was very kind of you to do

the washing-up, but you _____ it?

the given word.

161. FLORID

- 1) Weak 2) Pale
- 3) Monotonous 4) Ugly

162. VERITY

- 1) Sanctity 2) Reverence
- 3) Falsehood 4) Rarity

163. PERSPICUITY

- 1) Vagueness
- 2) Dullness
- 3) Unfairness
- 4) Unwillingness

164. FERVENT

- 1) In excitable 2) Enduring
- 3) Dispassionate 4) Subdued

165. MEANDERING

- 1) Sliding 2) Sloping
- 3) Strained 4) Straight

Directions (166-170): In the following questions out of the four alternatives, choose the one which best expresses the meaning of the given word.

166. LUXURIANT

- 1) Luxury-loving
- 2) Lovely
- 3) Rich
- 4) Abundant

167. CANTANKEROUS

- 1) Cancerous 2) Ferocious
- 3) Quarrelsome 4) Fissiparous

168. ONUS

- 1) Sadness 2) Happiness
- 3) Responsibility 4) Criticism

169. DERISION

- 1) Humiliation
- 2) Embarrassment
- 3) Ridicule
- 4) Condemnation

170. TRITE

- 1) Commonplace 2) Clever
- 3) Brief
- 4) Impudent

Directions (171-175): In the following questions a part of the sentence is **bold**. Below are given alternatives to the **bold** part at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

- 171. Obviously the isn't **cut up** to be a good teacher?
 - 1) Cut out
 - 2) Cut in
 - 3) Cut for
 - 4) No improvement
- 172. Power got with money is the most **craved** for today?
 - 1) Sought after
 - 2) Wished for

- 3) Welcomed for
- 4) No improvement
- 173. The brown shirt wants washing?
 - 1) Has to wash
 - 2) Is in need of a wash
 - 3) Requires a wash
 - 4) No improvement
- 174. You are asked to copy this letter word by word?
 - 1) Word for word
 - 2) Word with word
 - 3) Word to word
 - 4) No improvement
- 175. The weak man is a slave to his **sensuous** pleasures?
 - 1) Sensory
 - 2) Sensual
 - 3) Secondary
 - 4) No improvement

Directions: (176-180) In the following questions, out of the four alternatives, choose the one which can be substituted for the given words / sentence.

- 176. An underhand device resorted to in order to justify misconduct?
 - 1) Subterfuge 2) Maneuver
 - 3) Stratagem 4) Complicity
- 177. Impossible to describe?
 - 1) Miraculous 2) Ineffable
 - 3) Stupendous 4) Appalling
- 178. One who criticizes popular beliefs which he thinks is mistaken or unwise?
 - 1) Philistine 2) Iconoclast
 - 3) Imposter 4) Cannibal
- 179. Detaining and confining someone?

- 1) Interruption
- 2) Interrogation
- 3) Interment
- 4) Internment
- 180. Science of the races of mankind?
 - 1) Genealogy
 - 2) Epistemology
 - 3) Ethnology
 - 4) Sociology
- Directions (181-185): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.
- **181.** 1) Collaborate 2. Comemorate
 - 3) Colate 4) Choclate
- **182.** 1) Circuiteous 2) Clairvoyant
 - 3) Chivelery 4) Cavelcade

- **183.** 1) Severety 2) Sovereignity
 - 3) Superiorty 4) Serenity
- **184.** 1) Cummulative
 - 2) Comemmorative
 - 3) Accumulative
 - 4) Accommodative
- **185.** 1) Benediction
 - 2) Besmerch
 - 3) Beneficient
 - 4) Benevolence

Directions: (186-190): In the following questions, the 1st and the last sentences of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

- 186. 1. Education in India had a glorious beginning.
 - P. But after the British rule, it faced many changes.
 - Q. It went on for centuries with the same glory.
 - R. English as the medium of instruction had a very great response.
 - S. One of the changes was the introduction of English as the medium of instruction.
 - 6. As the Britishers left we had a complexity of opinions regarding English.
 - 1) PQRS 2) QPSR
 - 3) PQSR 4) SRPQ
 - 187. 1. It is easy to criticize the people at the helm, for the slow progress in every field.
 - P. We are well aware that the intellectuals are leaving our country for better employment opportunities.

- Q. Then question remains unanswered because our country cannot show opportunities to the intellectuals.
- R. Then, what about their obligation to the Motherland?
- 6. This situation of 'Brain-Drain' leads to a variety of problems.
- 1) PSQR 2) RPSQ
- 3) PSRQ 4) SPRQ
- 188. 1. It is the responsibility of parents to teach the young moral values in life.
 - P. Many children take advantage of their parents; busy schedule.
 - Q. This results in children's ignorance of social values.
 - R. The reason behind it is that parents are quite busy nowadays.
 - S. Nowadays parents spend very meager time with children.
 - 6. As such, the society is going away from the value system.

- 1) SRPQ 2) PQRS
- 3) SQRP 4) SPQR
- 189. 1. The man who does his duty without any selfish desire for fruit may be called a sanyasi as well as yogi.
 - P. The man who has achieved much evenness of temper will be serene, because his mere thoughts are changed with the strength of action.
 - Q. He would practice yoga, i.e., evenness of temper, and cannot but perform action.
 - R. The root of the matter is that one should not allow his mind to flit from object of desire to another and from that to a third.
 - S. But he who abstains from action altogether is only an idler.
 - 6. A yogi is one who is not attached to his objects of sense or to action and whose mind has ceased to roam restlessly.

1) SRQP

2) RQPS

3) QRSP

4) PRSQ

190. 1. This was an important day for Ala took.

- P. It was a cold day, but Ala took would be warm.
- Q. For the first time he was going to hunt seals alone.
- R. First he put on his fur-lined jacket.
- S. Then he put on mittens and boots of deerskin to protect his hands and feet from the cold.
- 6. Finally he picked up the gun he had cleaned so carefully the day before.
- 1) PQRS

2) QPRS

3) PRSQ

4) QRPS

Directions (191-195): In the following questions, a sentence has been given in Active Voice/Passive Voice, Out of the four alternatives suggested;

select the one which best expresses the same sentence in Passive/Active Voice.

191. They have made a film based on this novel.

- 1) A film was based on this novel and made.
- 2) A film has been made based on this novel.
- 3) A film, based on this novel, has been made.
- 4) A film has been based and made on this novel.

192. The people couldn't move me to the hospital and the doctor operated on me at home.

- 1) I couldn't be moved to the hospital and was operated on at home by the doctor.
- 2) I couldn't be moved to the hospital and was operated on at home by the doctor.

- 3) I couldn't be moved to the hospital and I was operated at home by the doctor.
- 4) I couldn't be moved to be hospital by the people and operated on at home.

193. Why did he deprive you of the membership?

- 1) Why you were deprived of the membership?
- 2) Why where you deprived of his membership by him?
- 3) Why was he deprived of his membership?
- 4) Why were you deprived of your membership by him?

194. The news has been brought to us by him.

- 1) He brought us the news.
- 2) He has brought us the news.
- 3) He was brought the news to us.
- 4) We brought the news to him.

195. Not a word was spoken by the criminal in self-defense.

- 1) The criminal spoke not a word in self-defense.
- 2) The criminal spoke not a word in self-defense.
- 3) The criminal did not speak a word in self-defense.
- 4) The criminal spoke in self-defense not a word.

Directions: (196-200): In the following passage, you have one brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

Every profession or trade, every art and every science has its technical vocabulary, the function of which is partly to designate things or processes which have no names in ordinary

English and party to secure greater exactness in nomenclature. Such special dialects or jargons are necessary in technical discussion of any kind. Being universally understood by the devotees of the particular science or art, they have the precision of mathematical formula. Besides. they save time, for it is much more economical to name a process than to describe Thousands of these technical terms are very properly included in every large dictionary, yet, as a whole, they are rather on the outskirts of the English language than actually within its borders.

Different occupations, however, differ widely in the character of their special vocabularies. In trades and handicrafts and other vocations like farming and fishing that have occupied great numbers of men from remote times, the technical vocabulary is

very old. An average man now uses these in his own vocabulary. The special dialects of law, medicine, divinity and philosophy have become familiar to cultivated persons.

196. Special words used in technical discussion.

- 1) May become part of common speech.
- 2) Never last long
- 3)Should resemble mathematical formula.
- 4) Should be confined to scientific fields.

197. The writer of this article is

- 1) A scientist
- 2) A politician
- 3) A linguist
- 4) A businessman

198. This passage is primarily concerned with

- 1) Various occupations and professions
- 2) Technical terminology
- 3) Scientific undertakings
- 4) A new language

199. It is true that

- 1) Various professions and occupations often interchange words.
- 2) There is always a non-technical word that may be substituted for the technical word.
- 3) The average man often uses in his own vocabulary what was once technical language not meant for him.
- 4) Everyone is interested in scientific findings.
- 200. In recent years, there has been a marked increase in the number of technical terms in the nomenclature of

- 1) Farming
- 2) Fishing
- 3) Sports
- 4) Government

Key

1. 3	24. 1	47. 4	70. 1	93. 2	116. 1	
2. 3	25. 3	48. 4	71. 2	94. 1	117. 2	
3. 2	26. 2	49. 2	72. 2	95. 4	118. 2	
4. 2	27.1	50.3	73. 1	96. 3	119.4	
5. 1	28. 3	51. 4	74. 2	97.3	120. 2	
6. 2	29.1	52. 4	75. 3	98.1	121. 2	
7.3	30. 4	53.1	76. 3	99.2	122. 4	
8. 2	31. 3	54. 4	77.2	100. 3	123. 4	
9. 2	32. 4	55.1	78.1	101. 2	124. 1	
10. 3	33. 4	56.1	79.2	102. 2	125. 4	
11. 1	34. 4	57.1	80.3	103. 3	126. 3	
12. 2	35. 3	58.4	81. 3	104. 4	127. 4	
13. 3	36. 2	59.1	82. 2	105. 4	128. 3	
14. 4	37.1	60.1	83.1	106. 2	129. 4	
15. 1	38.3	61. 2	84.3	107. 2	130. 1	
16.3	39.4	62. 3	85. 4	108. 2	131. 4	
17.1	40.1	63. 2	86. 4	109. 4	132. 2	
18. 2	41.3	64.3	87. 1	110. 4	133. 1	
19.3	42. 3	65.3	88.3	111. 3	134. 1	
20.4	43. 4	66.3	89.3	112. 4	135. 2	
21. 1	44.3	67. 2	90.3	113. 4	136. 1	
22. 3	45.1	68.1	91. 4	114. 2	137. 1	
23. 2	46. 4	69. 1	92. 2	115. 2	138. 3	

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139. 3	150. 1	161. 2	172. 4	183. 4	194. 2
140. 2	151. 3	162. 3	173. 3	184. 4	195. 3
141. 3	152. 1	163. 1	174. 1	185. 4	196. 3
142. 2	153. 2	164. 3	175. 2	186. 2	197. 3
143. 1	154. 3	165. 4	176. 2	187. 4	198. 2
144. 4	155. 4	166. 4	177. 2	188. 1	199. 3
145. 2	156. 1	167. 3	178. 2	189. 1	200. 4
146. 2	157. 1	168. 3	179. 4	190. 2	
147. 1	158. 4	169. 3	180. 3	191. 3	
148. 3	159. 2	170. 1	181. 1	192. 1	
149. 4	160. 4	171. 1	182. 2	193. 4	

Prepared by,
S M L C Kesava Rao
Maths Faculty