SYMBIOSIS NATIONAL APTITUDE TEST
(SNAP) 2013 (Memory Based)

Instructions:
This test is divided into the following sections

Sections	Total Marks	No. of Questions
Analytical & Logical Reasoning	60	30
General Knowledge	40	40
General English	40	40
Quantitative Aptitude & Data Interpretation	40	40
Total	**180**	**150**

❖ For every wrong answer, you will score 25% negative marks. You will be given 120 minutes to complete the test.

Analytical and Logical Reasoning

FOR ALL QUESTIONS IN THIS SECTION, EACH CORRECT ANSWER CARRIES 2 MARKS

1. Angle between hour hand and minute at 8:35?
    (A) 45 degrees
    (B) 32.5 degrees
    (C) 47.5 degrees
    (D) 30 degrees
    Ans.: Option (C)

2. Find the odd one out.
    (A) DIRAMLOG
    (B) ERENIGEN
    (C) UIHCSSBI
    (D) AFOLDFID
    Ans.: Option (B)

3. Raghu is at point A. He walks 3 km towards north, then turns left and walks 4 km. He turns left again and walk 6 km. If he wishes to reach point A again, then in which direction and what distance does he have to walk?
    (A) South east - 5 km
    (B) South east - 4 km
    (C) North east - 5 km
    (D) North east - 4 km
    Ans.: Option (C)

Directions for Questions 4 and 5

Six students A, B, C, D, E, F participated in a dancing competition wherein they won prizes _12000, _10000, _8000, 6000, _4000, _2000 according to positions that they secured.
Following additional information was given.
A. A won less money than B
B. Difference between the money won by C and F was _2000
C. Difference between the money won by D and F was atleast _4000
D. E won _8000

4. Which of the following is the correct ranking from first to sixth place?
    (A) A D E B F C
    (B) B A E C F D
    (C) F B E A C D
    (D) B A E D C F
    Ans.: Option (D)

5. If A won _4000, how much did C and F win together?
    (A) _6000
    (B) _10000

(C) _22000
(D) _18000
Ans.: Option (C)

6. Where should the number 17 fit into the sequence 18 11 15 14 19 16 10 12 20?
(A) Between 14 and 19
(B) Between 18 and 11
(C) Between 19 and 16
(D) Between 12 and 20
Ans.: Option (C)

7. **Statements:**
1. All kids like to play
2. Some kids like ice-cream
3. Some kids look like their mother
(A) NA
(B) Some kids like to eat ice-cream and play
(C) NA
(D) NA
Ans.: Option (B)

8. Find the missing letter

A	F	K
H	M	R
	T	Y

(A) O
(B) P
(C) Q
(D) R
Ans.: Option (A)

9. Aman is honest and no honest is a magician. Therefore, Aman is not a magician.
Ans.: Option (*)

Directions for Questions 10 and 11

The following table gives data of GNP and NNP of India during the given period. Read the data and answer the question.

Year	GNP	NNP
88-89	348210	309289
89-90	402931	357285

90-91	470252	418057
91-92	541593	479001
92-93	615831	543566
93-94	695342	615273

10. For which of the following years z do both GNP and NNP show almost equal rate of growth?
(A) 89-90
(B) 90-91
(C) 91-92
(D) 92-93
Ans.: Option (A)

11. Which of the following statement could be state to be true?
(A) GNP has been growing during the period under review
(B) NNP has been growing during the period under review
(C) The growth pattern has been different for both indicators during the period under review
(D) None of the above
Ans.: Option (A, B)

12. If PEACE is coded as RGCEG then how IS MICKY coded?
(A) MOUSE
(B) OKEMA
(C) LHBJX
(D) JDLJ
Ans.: Option (B)

13. Θ = equal to

ϕ = not equal to

Δ = greater than

x = less than

+ = not greater than

$ = not less than

Which of the following does not imply A Δ B Δ C?

(A) A $ B Δ C
(B) C + B × A
(C) C + B × A

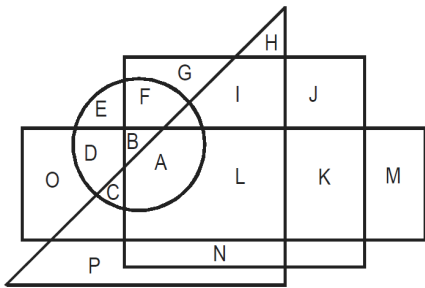(D) A × B Θ C
Ans.: Option (D)

14.

What will be the number on the face opposite to the 3?
(A) 1
(B) 2
(C) 4
(D) 5
Ans.: Option (C)

Directions for Questions 15 and 16

Square = Research scholar
Rectangle = Faculty member
Triangle = American
Circle = Indian

15.   Which of the following is a faculty member as well as research scholar but not American or Indian?
(A) L
(B) N
(C) K
(D) G
Ans.: Option (C)

16.   Which of the following is Indian American and faculty member but not research scholar?
(A) A
(B) B
(C) C
(D) F
Ans.: Option (C)

17.   A person facing East turns left and walks 10 yards, then turns left and again walks 10 yards. He then turns 45° to the right and walks 50 yards straight. In which direction is he now with respect to his starting point?
(A) North-East
(B) North
(C) South-East
(D) North-West
Ans.: Option (D)

18. P – Q means Q is son of P, P × Q means P is brother of Q, P ÷ Q means Q is sister of P, P + Q means P is mother of Q.
If N × K – M÷L, then which of following is definitely true?
(A) K is father of L and M
(B) L is daughter of K and niece of uncle N
(C) K is father of L and M – son and daughter respectively
(D) M is uncle of K and brother of N
Ans.: Option (B)

Directions for Questions 19 and 20

Five girls Rama, Sudha, Tara, Uma and Veena share an apartment and have distributed tasks among themselves one girl makes breakfast each day, Monday through Friday and cook one of the five dishes upama, dosa, idli, uttapa and paratha.

Veena does not make uttapa and does not cook on Tuesday.
Sudha makes parathas but not on Monday or Friday.
Upama is made onThursday.
Tara makes her dish, which is not uttapa, on Wednesday.
Idli is made on Friday but not by Uma.
Rama cooks on Monday.

19. What does Tara cook on Wednesday?
(A) Upama
(B) Paratha
(C) Idli
(D) Dosa
Ans.: Option (D)

20. One which day does Uma prepare her dish?
(A) Monday
(B) Tuesday
(C) Thursday
(D) Friday
Ans.: Option (C)

Direction for Question 21: Answer the following question on the basis of the following data.

Kunal, Rahul, Mohit and Charan are constables on duty in Delhi and they are trying to recollect who amongst them has been working the most number of days without leave. Here are the facts: Kunal has put in more days of consecutive duty than has Rahul, who has got in five days of consecutive duty. Mohit has gone fifteen days straight without leave, more than Kunal and Rahul combine(D) Charan has put in eight consecutive days of duty, which is less than what Kunal has done.

21. How many days has Kunal gone without leave?
(A) 6
(B) 9

(C) 12
(D) 4
Ans.: Option (B)

Direction for Question 22 to 24: Answer the following question on the basis of the following data.

Five hundred school children were asked about cricketers they liked. 80 said they like Sachin Tendulkar, 60 said they liked Sourav Ganguly, 90 said they liked Mahendra Singh Dhoni. 10 said they liked all three. 40 said they liked Sachin and Sourav, 50 liked Sachin and Dhoni, while 30 said they liked Sourav and Dhoni.

22. How many, out of the 500, didn't choose Sachin, Sourav or Dhoni?
    (A) 280
    (B) 380
    (C) 180
    (D) 480
    Ans.: Option (B)

23. How many like Sourav but not Tendulkar?
    (A) 21
    (B) 22
    (C) 23
    (D) None of the above
    Ans.: Option (D)

24. How many like fewer than two cricketers?
    (A) 410
    (B) 400
    (C) 390
    (D) 395
    Ans.: Option (B)

25. If 7 is coded as CBRT343, then 9 is :
    (A) CBRT27
    (B) SQRT81
    (C) CBRT729
    (D) CBRT6561
    Ans.: Option (C)

26. If HELLO is coded as 15|12|12|5|8, then WHERE is
    (A) 16|13|13|6|9
    (B) 5|18|5|8|23
    (C) 5|5|18|23|8
    (D) 5|5|18|8|23
    Ans.: Option (B)

27. Complete the following series 3 10 59
    (A) 402

(B) 403
(C) 404
(D) 405
Ans.: Option (A)

28. If WOOD is coded as 23|225|4 then MEET is
(A) 13|5|5|20
(B) 13|10|20
(C) 13|25|20
(D) None of these
Ans.: Option (C)

Directions for Questions 29 and 30

The following table gives data on Sectoral Investment during the Eight plan. Read the data and answer the questions.

Sr. No.	Sector	Public Sector (Fig. in Rs. Crores)	Private Sector (Fig. in Rs. Crores)	6th Plan (Fig. in %)	7th Plan (Fig. in %)
1	Agriculture	52000	96800	15.2	11.2
2	Mining and Quarrying	28500	11100	6.1	6.7
3	Manufacturing	47100	141300	23.6	26.0
4	Electricity, Gas and Water	92000	10120	12.1	13.7
5	Construction	3300	17240	2.7	1.9
6	Transport	49200	38710	9.4	9.9
7	Communication	25000	1000	1.5	2.0
8	Services	63900	120730	29.4	28.6

29. Which of the following sectors has shown a steady increase in inverstments during last three plan periods?
(A) Agriculture
(B) Communication
(C) Services
(D) Construction
Ans.: Option (B)

30. During the eight plan period, in which sector the percentage share of Public Sector investment has been the highest?
(A) Mining and Quarrying
(B) Electricity, Gas and Water
(C) Communication
(D) None of these
Ans.: Option (C)

GENERAL AWARENESS

FOR ALL QUESTIONS IN THIS SECTION, EACH CORRECT ANSWER CARRIES 1 MARKS.

31. In India, which agency is involved in estimation of national income of India?
(A) Central Statistical Organization
(B) RBI
(C) NA
(D) NA
Ans.: Option (A)

32. Which NATO country was the first to introduce compulsory military training to women?
(A) Italy
(B) Germany
(C) Norway
(D) NA
Ans.: Option (C)

33. Who among the following sportpersons were twins?
(A) Steve Waugh and Mark Waugh
(B) Serena Williams and Venus Williams
(C) Irfan Pathan and Yusuf Pathan
(D) None of the above
Ans.: Option (A)

34. Since April 2010, saving bank interest rate is calculated
(A) at 4 % annum
(B) on lowest balance available in the account between the 10th and the final day of the month
(C) Daily balance method
(D) None of the above
Ans.: Option (B)

35. Special drawing rights
(A) is a basket of 5 currencies reviewed every 5 years
(B) Supplamentary foreign exchange reserve assets maintained by IMF
(C) NA
(D) NA
Ans.: Option (B)

36. Which of the following is not a goal of monetary policy?
(A) full employment
(B) price stability
(C) taxation proposals
(D) Any of the above
Ans.: Option (A)

37. Which committee recommended large scale changes in banking sector in 90's?
(A) Mayaram Committee
(B) Narsimham Committee
(C) NA
(D) NA
Ans.: Option (B)

38. Government of India started passport seva project in 2008 in collaboration with which private company?
(A) Wipro
(B) Infosys
(C) Mahindra Satyam
(D) TCS
Ans.: Option (D)

39. Find odd person out
(A) Shikha Sharma
(B) Chanda Kochhar
(C) Shubhalakshmi Panse
(D) Kiran Mazumdar Shaw
Ans.: Option (D)

40. Find the odd man out:
(A) Sarod
(B) Sitar
(C) Shehnai
(D) Santoor
Ans.: Option (C)

41. Who gave the zero defect theory?
(A) Philip B Crosby
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

42. First ATM in India was introduced by
(A) HSBC
(B) HDFC
(C) Barclays Bank
(D) None of the above
Ans.: Option A()

43. 'Relationship beyond banking' is tagline of
(A) State Bank of India
(B) Central Bank of India
(C) Bank of India
(D) Bank of Maharashtra
Ans.: Option (C)

44. MENA countries refers to
(A) Middle East and North Africa
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

45. Which country is largest producer of newsprint?
(A) Indonesia
(B) Canada
(C) USA
(D) None of the above
Ans.: Option (B)

46. IRDA is related with which sector?
(A) Banking
(B) Mutual Funds
(C) Telecom
(D) None of the above
Ans.: Option (C)

47. International Date Line passes through longitude.
(A) 90
(B) 180
(C) 360
(D) NA
Ans.: Option (B)

48. Kyoto protocol was ratified by India in which year?
(A) 1998
(B) 2000
(C) 2002
(D) NA
Ans.: Option (C)

49. LIDL, Walgreen, ASDA and Kroger are companies related to.
(A) Automobile companies
(B) Retailers
(C) NA
(D) NA
Ans.: Option (B)

50. The Logic of induction is similar to
(A) inductive reasoning
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

51. Movie' Life of Pie' is based on novel written by
(A) Yann Mantel
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

52. Three Gorges dam is situated in –
(A) China
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

53. Individuals with this blood type are universal red cell donors
(A) A –
(B) B +
(C) AB
(D) O –
Ans.: Option (D)

54. Dronacharya Award 2013 was given to Narinder Singh Saini for which of the following sports?
(A) Archery
(B) Boxing
(C) Hockey
(D) None of the above
Ans.: Option (C)

55. Which among the following is not a palindrome?
(A) NA
(B) NA
(C) As you sow, so you reap.
(D) None of the above
Ans.: Option (C)

56. Panchtantra was written by.
(A) Vishnu Sharma
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

57. Union Finance Minister's budget speech is divided into two parts. Part A deals with
(A) Taxation proposals
(B) General Economic Survey
(C) Both a and b

(D) None of the above
Ans.: Option (B)

58. Daylight saving time is practice of
(A) adjusting clocks forward one hour since the start of spring till the autumn
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

59. Direct Cash Transfer Scheme was in news recently. This scheme is similar to one scheme launched by.
(A) Brazil
(B) Canada
(C) Australia
(D) Sri lanka
Ans.: Option (A)

60. Extradition treaty is a process whereby
(A) one country transfers a suspected or convicted criminal to another country
(B) olden traditions are rejuvenated as a part of cultural events
(C) additional diction efforts are taken for language improvisation
(D) extraction of the tar is carried out from the mines
Ans.: Option (A)

61. FATP controls.
(A) Money laundering
(B) Smuggling
(C) NA
(D) None of the above
Ans.: Option (A)

62. Corporate Head Quarters of Tata group is located at.
(A) Bombay House
(B) Tata Tower
(C) JRD Towers
(D) NA
Ans.: Option (A)

63. Open market operation by RBI?
(A) Gold
(B) Foreign currency
(C) Government bonds
(D) All of the above
Ans.: Option (A)

64. How many pairs of chromosome are there in humans?
(A) 18
(B) 23

(C) NA
(D) NA
Ans.: Option (B)

65. Which among the following sectors was not nationalized anytime?
(A) Banking
(B) Coal
(C) NA
(D) None of the above
Ans.: Option (D)

66. Which among the cartoon-creator pair is not matched correctly?
(A) Elzie Crisler Segar- Popeye
(B) Walt Disney- Donald Duck
(C) NA
(D) NA
Ans.: Option (*)

67. Speaker of Lok Sabha is elected by.
(A) Members of Lok Sabha
(B) Only members of ruling party in Lok Sabha
(C) NA
(D) NA
Ans.: Option (A)

68. Which instrument measures Blood Pressure?
(A) Sphygmomanometer
(B) Hygrometer
(C) Saccharimeter
(D) Spherometer
Ans.: Option (A)

69. Which among the following institutions is also known as Brettonwoods Twins?
(A) International Monetary Fund and World Bank
(B) International Monetary Fund and Asian Development bank
(C) NA
(D) NA
Ans.: Option (A)

70. Government sells securities in which market?
(A) Gilt edged market
(B) NA
(C) NA
(D) NA
Ans.: Option (A)

GENERAL ENGLISH

FOR ALL QUESTIONS IN THIS SECTION, EACH CORRECT ANSWER CARRIES 1 MARK.

Directions for Q 71 to 74: Choose the correct synonym of the word in capital letters from the four options given below.

71. ENTRENCHED
    (A) Filled up
    (B) Fortified
    (C) Followed by
    (D) Kept down
    Ans.: Option (B)

72. RECTITUDE
    (A) renew
    (B) resort
    (C) integrity
    (D) liberate
    Ans.: Option (C)

73. INVIDIOUS
    (A) unacceptable
    (B) enticing
    (C) breathtaking
    (D) inverted
    Ans.: Option (A)

74. AFICIONADO
    (A) affection
    (B) good friend
    (C) tour guide
    (D) ardent fan
    Ans.: Option (D)

Direction for Q. 75: Choose the correct alternative for the following sentence

75. Despite immense development in almost all the fields, humans still cannot control nature and _____ to do so.
    (A) probably not be able
    (B) probably will never able
    (C) probably will never be able
    (D) perhaps be never having ability.
    Ans.: Option (C)

Directions for Q. 76: The sentence given below is jumbled and each underlined part is numbered. You are required to arrange it in the most logical and grammatically acceptable sequence.

76. a path   put up a notice.   to another   from one place   the public
       1   2   3   4   5
     Halton Borough Council   about its   plans to move   to tell

(A) 5, 2, 9, 6, 7, 8, 1, 4, 3
(B) 6, 8, 1, 4, 3, 2, 9, 7, 5
(C) 5, 8, 1, 4, 3, 2, 9, 7, 6
(D) 6, 2, 9, 5, 7, 8, 1, 4, 3
Ans.: Option (D)

Directions for Questions 77 to 78: Choose the correct spelling:-

77.   Disgraphia is a deficiency in the ability to write, spell or put down thoughts on paper. The underlined word is spelled incorrectly. Which of the following is the correct spelling?
(A) Disgrephia
(B) Disgrephia
(C) Dysgraphya
(D) Dysgraphia
Ans.: Option (D)

78.   PANGERYRIC means "to pay tribute to". The underlined word is spelt incorrectly. Mark the correct spelling
(A) panegyric
(B) penagyric
(C) penagiryc
(D) none of the above
Ans.: Option (A)

Directions for Questions 79 and 80: Identify two most appropriate options from those given below that can complete the sentence without changing the meaning

79.   I_____scorpions, they are diabolic.
i. Hate
ii. Scare
iii. Loath
iv. Wary
v. Cagey
(A) i, v
(B) v, iii
(C) i, iii
(D) ii, iv
Ans.: Option (C)

80.   To fully understand (A)_____work such as George Orwell's Animal Farm, one must be able to differentiate (B)_____events of the plot from the abundant extended metaphors.

Blank A	Blank B
I. An allegorical	IV. Literal
II. A tragic	V. superficial
III. A parabolic	VI. Figurative

(A) ii, iv
(B) i, iv

(C) iii, iv
(D) i, v
Ans.: Option (A)

Direction for Q. 81: Find out the two words that are nearly the same or opposite in meaning and indicate the correct combination provided in the four options

81.   I. attenuate
        II. repent
        III. Make thin
        IV. Force
        (A) I-III
        (B) III-II
        (C) II-IV
        (D) I-II
        Ans.: Option (A)

Direction for Q. 82: Choose the word nearest in meaning to the word underline(D)

82.   A rapier is a
        (A) baton
        (B) rascal
        (C) quick sharp hit
        (D) long thin light sword
        Ans.: Option (D)

Directions for Questions 83 and 84: Choose the correct alternatives for the following idioms.

83.   Raise Cain
        (A) re-incarnate
        (B) cause trouble
        (C) bring up
        (D) look after
        Ans.: Option (B)

84.   Go to seed.
        (A) harvesting
        (B) planting
        (C) become unfit and run down
        (D) financial ruin
        Ans.: Option (C)

Directions for Questions 85 to 88: Read the following passage and answer the questions that follow.
The Next ingredient is a very remarkable one : Good Temper. "Love is not easily provoke(D)" Nothing could be more striking than to find this here. We are inclined to look upon bad temper as a very harmless weakness. We speak of it as a mere infirmity of nature, a family failing, a matter of temperament, not a thing to take into very serious account in estimating a man's character. And yet here, right in the heart of this analysis of love, it finds a place and the Bible again and again returns to condemn it as one of the most destructive elements in human nature. The Peculiarity of ill temper is that it is the vice of the virtuous. It is often the one blot on an otherwise noble character. You know men who are all but perfect, and women who Would be entirely perfect, but for an easily ruffled, quick-tempered, or "touchy" disposition. This compatibility of ill temper with high moral character is one of the strangest

and saddest problems of ethics. The truth is there are two great classes of sins-sins of the Body and sins of the disposition. The Prodigal Son may be taken as a type of the first, the Elder Brother of the second. Now society has no doubt whatever as to which of these is the worse. Its brand falls, without a challenge upon the Prodigal. But are we right? We have no balance to weigh one another's sins, and coarser and finer are but human Words; but faults in the higher nature may be less venial than those in the lower, and to the eye of Him who is Love, a sin against Love may seem a hundred times more base. No form of vice, not worldliness, not greed of gold, not drunkenness itself does more to un-christianaise society than evil temper. For embittering life, for breaking up communities, for destroying the most sacred relationships, for devastating home, for withering up men and women, for taking the bloom off childhood; in short, for sheer gratuitous misery-producing power, this influence stands alone. Jealousy, anger, pride, uncharity, cruelty self-righteousness, touchiness, doggedness, sullenness-in varying proportions these are the ingredients of all ill temper. Judge if such sins of the disposition are not worse to live In, and for others to live with, than sins of the body. There is really no place in Heaven for a disposition like this. A man with such a mood could only make Heaven miserable for all the People in it. **Excerpts from passages by Henry Drummond.**

85. What is the popular notion about bad temper?
(A) it is a serious malady
(B) it is a harmless weakness
(C) it is a peculiarity
(D) it shows strength of character
Ans.: Option (B)

86. What does the word "venial" mean?
(A) forgivable sin or mistake
(B) deer meat
(C) wicked
(D) insect
Ans.: Option (A)

87. The Bible condemns which of the following as one of the most destructive elements in human nature?
(A) anger
(B) laziness
(C) procrastination
(D) splurging
Ans.: Option (A)

88. Find the exact word in the passage which means easily or quickly offende(D)
(A) uncharity
(B) self righteousness
(C) touchiness
(D) pride
Ans.: Option (C)

Directions for Q.89: Fill in the blank with the correct option.

89. "If you are morose," you feel _____
(A) excited
(B) sleepy
(C) peaceful

(D) gloomy
Ans.: Option (D)

Directions for Questions 90 and 91: Name the part of speech of the underlined word in the following sentences.

90. We scored as many goals as them.
(A) conjunction
(B) pronoun
(C) adverb
(D) preposition
Ans.: Option (B)

91. There is more evidence yet to be offered.
(A) verb
(B) adverb
(C) preposition
(D) none of the above
Ans.: Option (B)

Directions for Questions 92: Identify a synonym to replace the underlined word (s).

92. The baby is in the carrying basket.
(A) bassinet
(B) tub
(C) baby
(D) perambulator
Ans.: Option (A)

Directions for Questions 93: Which of the following does not denote the underlined word (s)?

93. The festival of Christmas.
(A) Noel
(B) Yule
(C) Crimbo
(D) Halloween
Ans.: Option (D)

94. **Choose the correct option to fill in the blank with the correct grammatical usage.**
He has his finger _____ the pulse of the nation.
(A) in
(B) below
(C) on
(D) over
Ans.: Option (C)

95. **Identify the error in the following sentence by choosing from the given alternatives**
"Where do you live" asked the stranger?
(A) an exclamation should be used instead of a question mark
(B) the question mark should be used inside the quotation marks
(C) the question mark should be used outside the quotation marks
(D) none of the above
Ans.: Option (B)

Directions for Q. 96 and 97: In each of the following questions, the part of the sentence which is in capitals and has been underlined may have an error. Correct the error.

96. Unless he DOES NOT GIVE UP smoking, we cannot be sure of any improvement in his health
(A) has not given up
(B) gives up
(C) did not give up
(D) no improvement
Ans.: Option (B)

97. A recently carried out meta-analysis of two decades of published research DOES NOT SUGGEST THAT THERE SHOULD BE AN ASSOCIATION BETWEEN COFFEE DRINKING AND CORONARY AILMENTS.
(A) suggests that there is no association between coffee drinking and coronary ailments.
(B) any association between and coronary ailments is not suggests.
(C) shows that coffee drinking should not be suggested to have an association with coronary ailments.
(D) suggests the association between coffee drinking and coronary ailments on a macro level.
Ans.: Option (A)

98. **In the following sentences, the order of the sentences has been jumbled up. Make the best choice to find out the correct sequence so as to form a meaningful paragraph**
A. The following represents a condensed statement of what we think we now know about the relationship between education and employment.
B. Although the linkages between education and employment are complex, and in the past, often analysed with simplistic notions of casualty, recent research results have yielded new insights about the nature of these linkages.
C. In the interests of brevity, the argument is put forward as a series of major propositions and derivatives strategies relating to the education employment nexus.
D. Intensive research efforts are currently being supported through the developing world both by national governments and international donor agencies in the hope of improving, understanding of the nature and causes of rising unemployment.
E. The massive problems of widespread and chronic unemployment and underemployment in less developed nations will remain among the most serious challenges to the development policy during the next several decades.
(A) ACBDE
(B) BACDE
(C) CABDE
(D) DBEAC
Ans.: Option (B)

99. **Given below are four sentences, each of which may or may not have an error. Following them are four options. Select the option indicating the error free statement (s).**
A. Fruits from Madhavs' garden were stolen.
B. Fruit's are sold here
C. All the students of the students' council agreed to raise funds.
D. The dress's texture was coarse
(A) A and B are correct
(B) A and C are correct

(C) Only C is correct
(D) B and D are correct
Ans.: Option (C)

100.   **Choose the odd word out**
(A) esoteric
(B) exigent
(C) occult
(D) mystical
Ans.: Option (B)

101.   Choose the word or phrase that best completes the sentence:
The rebels sought to overcome the.....strength of the police forces by engaging in........tactics
(A) lack of...............divisionary
(B) augmented..............peaceful
(C) preponderant.............guerilla
(D) power.....................foolish
Ans.: Option (C)

Directions for Questions 102 to 104:
Read the following passage and answer the questions that follow.
My new mistress proved to be all she appeared when I first met her at the door,--a woman of the kindest heart and finest feelings. She had never had a slave under her control previously to myself, and prior to her marriage she had been dependent upon her own industry for a living. She was by trade a weaver; and by constant application to her business, she had been in a good degree preserved from the blighting and dehumanizing effects of slavery. I was utterly astonished at her goodness. I scarcely knew how to behave towards her. She was entirely unlike any other white woman I had ever seen. I could not approach her as I was accustomed to approach other white ladies. My early instruction was all out of place. The crouching servility, usually so acceptable a quality in a slave, did not answer when manifested toward her. Her favor was not gained by it; she seemed to be disturbed by it. She did not deem it impudent or unmannerly for a slave to look her in the face. The meanest slave was put fully at ease in her presence, and none left without feeling better for having seen her. But alas! This kind heart had but a short time to remain such. The fatal poison of irresponsible power was already in her hands, and soon commenced its infernal work. Very soon after I went to live with Mr. and Mrs. Auld; she very kindly commenced to teach me the A, B, C. After I had learned this, she assisted me in learning to spell words of three or four letters. Just at this point of my progress, Mr. Auld found out what was going on, and at once forbade Mrs. Auld to instruct me further, telling her, among other things, that it was unlawful, as well as unsafe, to teach a slave to read. To use his own words, further, he said, "If you give a nigger an inch, he will take an ell. A nigger should know nothing but to obey his master-to do as he is told to do. Learning would spoil the best nigger in the world. "Now," said he, "if you teach that nigger (speaking of myself) how to read, there would be no keeping him. It would forever unfit him to be a slave. He would at once become unmanageable, and of no value to his master. As to himself, it could do him no good, but a great deal of harm. It would make him discontented and unhappy." These words sank deep into my heart, stirred up sentiments within that lay slumbering, and called into existence an entirely new train of thought. It was a new and special revelation, explaining dark and mysterious things, with which my youthful understanding had struggled, but struggled in vain. I now understood what had been to me a most perplexing difficulty-to wit, the white man's power to enslave the black man. It was a grand achievement, and I prized it highly. From that moment, I understood the pathway from slavery to freedom. It was just what I wanted, and I got it at a time when I the least expected

it. Whilst I was saddened by the thought of losing the aid of my kind mistress, I was gladdened by the invaluable instruction which, by the merest accident, I had gained from my master. Though conscious of the difficulty of learning without a teacher, I set out with high hope, and a fixed purpose, at whatever cost of trouble, to learn how to read. The very decided manner with which he spoke, and strove to impress his wife with the evil consequences of giving me instruction, served to convince me that he was deeply sensible of the truths he was uttering. It gave me the best assurance that I might rely with the utmost confidence on the results which, he said, would flow from teaching me to read. What he most dreaded, that I most desired. What he most loved, that I most hated. That which to him was a great evil, to be carefully shunned, was to me a great good, to be diligently sought; and the argument which he so warmly urged, against my learning to read, only served to inspire me with a desire and determination to learn. In learning to read, I owe almost as much to the bitter opposition of my master, as to the kindly aid of my mistress. I acknowledge the benefit of both.
Excerpt from Fredrick Douglass.

102. The author's main purpose in this passage is to
(A) describe a disagreement between a woman and her husband
(B) analyze the reason for prohibiting the education of slaves
(C) describe a slave's discovery of literacy as a means of freedom
(D) dramatize a slave's change in attitude towards his mistress.
Ans.: Option (C)

103. For which of the following reasons does Mr. Auld forbid his wife to educate the slave?
A. Providing slaves with an education violates the law
B. He believes slaves lack the capacity for education
C. He fears education would leave the slave less submissive
(A) Only A
(B) Only C
(C) A and B
(D) A and C
Ans.: Option (D)

104. The tone of author in acknowledging his debt to his master can be best described as
(A) sentimental and nostalgic
(B) cutting and ironic
(C) petulant and self-righteous
(D) resigned but wistful
Ans.: Option (B)

105. **Replace the underlined phrase with the one which is clossest to it in meaning.**
I DROPPED A CLANGER when I mentioned her ex-husband.
(A) Inadvertently caused embarrassment
(B) Let go of a clanger
(C) Toppled a lampshade
(D) None of the above
Ans.: Option (A)

Directions for Q. 106 to 108: Fill in the blanks in the sentences with the appropriate choices.

106. I should not have……………to talk in such a…………………strain especially when I had not studied the man to whom I was talking.
(A) daring……………commanding
(B) tried………………bold

(C) ventured...........peremptory
(D) emboldened.........Reckless
Ans.: Option (C)

107.   The................of Agatha Christie's argument is that human nature remains the same, wherever you are.
(A) acne
(B) pinnacle
(C) nadir
(D) crux
Ans.: Option (D)

108.   The....................play caused me to squirm in my seat, but she began to....................her eyes in a way that irritated me.
(A) delirious.....................spot
(B) grin.........................wet
(C) disastrous..............damp
(D) maudlin.............daub
Ans.: Option (D)

Directions for Questions 109 and 110: Select the choice that best replaces the underlined part of the sentence given in the question:

109.   There they stood on the top shelf, all 20 volumes, **their red binding and gold lettering undoubtedly making them the most attractive between all the books on the bookshelf**
(A) their red binding and gold lettering undoubtedly making them the most attractive between all the books on
(B) their red binding and gold lettering undoubtedly making them the most attractive among all the books on
(C) their red binding and gold lettering undoubtedly made them the most attractive among the books in
(D) their red binding and gold lettering undoubtedly making them seem the most attractive among all the books on
Ans.: Option (B)

110.   Everything in the world **decays, it comes to an end and also dies inevitably.**
(A) decays, it comes to an end and also dies inevitably.
(B) decays, comes to an end and dies inevitably.
(C) decays and as it comes to an end it also dies inevitably.
(D) decay, they come to an end and then they die inevitably.
Ans.: Option (B)

QUANTITATIVE

FOR ALL QUESTIONS IN THIS SECTION, EACH CORRECT ANSWER CARRIES 1 MARK.

111. Deepak can do a piece of work in 15 days, Harsh can do it in 12 days, Deepak, Harsh and Sushant can together do it in 4 days. In how many days can Sushant alone do this work?
(A) 12
(B) 15
(C) 10
(D) 8
Ans.: Option (C)

112. A village has 2000 people out of which 1100 are male and 900 female. The overall literacy rate is 95%, while only 3% male are not literate. What percentage of the female population is literate?
(A) 92.55%
(B) 93.65%
(C) 94%
(D) None of the above
Ans.: Option (A)

113. A sum of money is sufficient to pay Ravi's wage for 18 days or Ajit's wage for 12 days. The same money is sufficient to pay the wages of both for how many days?
(A) 9 days
(B) 8.5 days
(C) 7.2 days
(D) 5.5 days
Ans.: Option (C)

114. What is the number to be added to 1/4 of 30% of 120 so that it is 50% more than 25% of 40?
(A) 6
(B) 7
(C) 5
(D) 4
Ans.: Option (A)

115. 10 years ago the average age of all 25 teachers of a school was 45 years. 4 years ago one teacher retired from her post at the age of 58. After one year a new teacher whose age was 54 years was recruited from outside. The present average age of all the teachers is:-

(a) $55\dfrac{17}{25}$ years

(b) $55\dfrac{4}{5}$ years

(c) $55\dfrac{18}{25}$ years

(d) $49\dfrac{1}{2}$ years

Ans.: Option (*)

116. X can complete a work in 15 days and Y can complete the same work in 20 days. X started the work alone and after 5 days Y joined X. After working together for three days, X had to leave the work. How long will it take for Y to complete the remaining work?
(A) 4.5 days
(B) 5.3 days
(C) 2.5 days
(D) 6.3 days
Ans.: Option (D)

117. Find out the value of [(2.09 + 0.08)2 − (2.09 − 0.08)2] / [(2.09)(0.08)]
(A) 4
(B) 3.79
(C) 4.12
(D) 2.09
Ans.: Option (A)

118. In a triangle ABC the measure of angle A is 50° and the external bisectors of angle B and angle C meet at O. The measure of angle BOC is :
(A) 140°
(B) 40°
(C) 105°
(D) 65°
Ans.: Option (D)

119. The average salary of all the 60 employees in an office is Rs. 12000/- per month. If the number of executives is twice the number of non-executive employees, then the average salary of all the non-executive employee is:
(A) Rs. 9000/-
(B) Rs. 8000/-
(C) Rs. 6000/-
(D) Cannot be determined
Ans.: Option (D)

120. Two pots A and B contain syrup and water in the ratio 3 : 7 and 5 : 2 respectively. Find the ratio in which these mixtures be mixed to get a new mixture containing syrup and water in the ratio of 2 : 3?
(A) 22 : 7
(B) 4 : 3
(C) 16 : 9
(D) None of the above

121. A truck carrying goods has travelled for 3 days. The 1st day it travelled for 12 hours at an average speed of 40 km/hour, the 2nd day it travelled for 10 hours at an average speed of 50 km/hour, the third day it completed 360 kilometres travelling for 8 hours. The average speed of the truck in km/hour for all the three days is:
    (A) 45.22
    (B) 49.58
    (C) 43.73
    (D) 44.66
    Ans.: Option (D)

122. The H.C.F of two numbers is 8 and their L.C.M is 96. If one of the numbers is 32, then the other is
    (A) 24
    (B) 42
    (C) 16
    (D) None of the above
    Ans.: Option (A)

123. The ratio between the present age of A and B is 3 : 4. The present age of B is 10 years more than the age of A 5 years ago. Find out the present age of (B)
    (A) 12
    (B) 17
    (C) 20
    (D) None of the above
    Ans.: Option (C)

124. The circumference of the front wheels of a vehicle is 3.5 metres, and that of the back wheels is 3.0 metres. If the vehicle is moving at a speed of 54 km/hr, the shortest time in which both the wheels will make a whole number of turns is :
    (A) 6.4 seconds
    (B) 4 seconds
    (C) 2.1 seconds
    (D) 1.4 seconds
    Ans.: Option (D)

125. If p is 81% of q, what percentage of p is q?
    (A) 81%
    (B) 101.9%
    (C) 112.3%
    (D) 123.45%
    Ans.: Option (D)

126. The length of a rectangular plot is 15 metres more than its breadth. If the cost of fencing the plot is Rs. 2700 at the rate of Rs. 30 per metre, what is the length of the plot in metres?

(A) 25
(B) 35
(C) 30
(D) None of the above
Ans.: Option (C)

127. In a class, 70% of the students opted for History, 45% of the students opted for Geography, and 20% opted for neither History nor Geography. What percentage of the class opted for both the subjects?
(A) 35%
(B) 25%
(C) 30%
(D) 20%
Ans.: Option (A)

128. A boy lying on the ground 1000 ft away from a multistoried building, can see the top of the building exactly in line with the top of a 10 ft tall flag post. If the flag post is 20 ft away from the boy, what is the height of the building?
(A) 500 ft
(B) 600 ft
(C) 800 ft
(D) 1000 ft
Ans.: Option (A)

129. 21 boys turn out for an NCC parade. Of these 19 are wearing NCC caps and 11 are wearing NCC shoes. There are no boys without one or the other. How many boys are wearing the full uniform?
(A) 2
(B) 6
(C) 9
(D) 10
Ans.: Option (C)

130. A number is increased by 20% and then is reduced by 20%. The number :
(A) does not change
(B) decreases by 4%
(C) increases by 4%
(D) increases by 8%
Ans.: Option (A)

131. In a class of 42, there are 22 boys and 20 girls. The class teacher has to appoint a girl monitor and a boy monitor. In how many ways can the selection be made?
(A) 22
(B) 420
(C) 42
(D) 440
Ans.: Option (D)

132. A and B are 20 km apart. If they travel in opposite directions, they meet each other after half an hour. If they travel in the same direction, they meet after 2 hours. If A travels faster than B, his speed is :
(A) 15 km/hr
(B) 20 km/hr
(C) 25 km/hr
(D) 30 km/hr
Ans.: Option (C)

133. Let A = {1, 2, 3, 4, 5, 6}
How many subsets of A can be formed with just two elements, one even and one odd?
(A) 6
(B) 8
(C) 9
(D) 10
Ans.: Option (C)

134. A grocer sells a soap marked Rs. 30/- at 15% discount and gives a shampoo sachet costing Rs 1.5 free with each soap. He then makes 20% profit. His cost price per soap is :
(A) Rs. 15
(B) Rs. 16
(C) Rs. 18
(D) Rs. 20
Ans.: Option (D)

135. Which one of the following is correct?
(A) log (m + n) = log m + log n
(B) log (m − n) = log m − log n
(C) log (m × n) = log m + log n
(D) log mn = (log m)n
Ans.: Option (C)

136. The sum of two numbers is 15; their product is 30. The sum of their reciprocals is :
(A) 2
(B) 1/3
(C) 1/2
(D) 4/15
Ans.: Option (C)

137. Three persons Amar, Akbar and Anthony agree to pay their hotel bills in the ratio of 3 : 4 : 5. Amar pays the first day's bill which amounts to Rs. XYZ/-. Akbar pays the second day's bill which amounts to Rs. XYZ/- and Anthony pays the third day's bill which amounts to Rs. XYZ/-. When they settle their accounts, which of the following happens?
(A) Amar gives Rs. 3/- to Anthony
(B) Akbar gives Rs. 2/- to Amar

(C) Amar gives Akbar Rs. 1.95/- and Rs. 2/- to Anthony.
(D) None of the above
Ans.: Option (D)

138. The UP Government recently laid down 6 lane roads connecting three cities Ayodhya, Banaras and Chitrakoot, which are equidistant from each other, i.e. they form an equilateral triangle. Angad and Bajrang start simultaneously, from Ayodhya and Banaras respectively, towards Chitrakoot. When Angad covers 100 kms, Bajrang covers such a distance that the distance between Angad and Bajrang makes 90° angle with the road joining Banaras to Chitrakoot. When Bajrang reaches Chitrakoot, Angad is still 150 km away from Chitrakoot. What is the distance between Ayodhya and Chitrakoot?
(A) 250 km
(B) 450 km
(C) 300 km
(D) None of the above
Ans.: Option (C)

139. (1 – 1/2)(1 – 1/3)(1 – 1/4)(1 – 1/5) .... (1 – 1/40) = X/40
(A) 13
(B) 39
(C) 21
(D) 1
Ans.: Option (D)

140. The smallest number which when divided by 12, 16, 18 gives 7 as remainder in each case is :
(A) 103
(B) 135
(C) 151
(D) 187
Ans.: Option (C)

141. If (a/b)2x–3 = (b/a)x–9, then x is equal to
(A) –6
(B) –2
(C) 12
(D) 4
Ans.: Option (D)

142. The population of vultures in a locality decreases by a certain rate (compounded annually). If the current population of vultures 29,160 and the ratio of the decrease in population for the second year and the third year be 10 : 9, what was the population of vultures 3 years ago?
(A) 30000
(B) 35000
(C) 40000
(D) 50000
Ans.: Option (C)

143. A circle and a square have equal perimeter, then which of the following is true?
Ans: Area of circle is more than area of square

144. Pipe A and pipe B can fill a tank in 15 hours and 10 hrs respectively while pipe C can empty it in 30 hrs. Initially, for 2 hrs, all the pipes were open. Then, the person operating them realized his mistake and closed pipe (C) How much more time did the tank take to fill as compared to the case when pipe C had not been open at all.
Ans: 24 Min.

145. A person hired some people to do a certain work. After some days, he observed that it will take three-fourth more time to finish the work. He doubled the number of people and the work was finished on time. What percentage of the work was finished before the increase in the number of people?
Ans: 100/7%

146. Anna sold his car to boney at 20 percent profit; Boney sold the same to Chakori at 10% profit. Chakori in return sold this car to a Mechanic at 9.09% loss. Mechanic spent 10 percent of the car's purchase price for repairing it and sold it to Anna at 8.33 percent profit. Find the Percentage gain/loss to Anna in the Deal.
Ans: 23% loss

147. In a printing firm, each book has to go through three phases -typing, composing and binding. In an hour, a typist can type 8 books, a composer can compose 12 books and binder can bind 12 books. There are 16 typists, 10 composers and 15 binders. How many books can be printed in a day if everyone works for 10 hours.
Ans: 1200

Directions for Questions 148 to 150: Train, Jaikal and Cat question:

148. What is the ratio of speed of train and jaikal?
Ans: 5:1

149. What is the ratio of speed of train and cat?
Ans: 5:3

150. distance of AM1-
Ans: 10 km.