① Part I English Language

Directions (Q. Nos. 1-3) In the given sentences there is an error in one of the parts. The parts that contains an error is your answer. In case there is no error then choose 'No error' as your answer. (Ignore the errors of punctuation, if any).

1. My brother has been (a) living in America (b)/ with his family (c)/ for the past ten years. (d) No error (e)

2. The man who is (a)/ perpetually hesitating (b)/which of the two things (c)/he will do first, will ultimately do either. (d) No error (e)

3. Being a well-known (a)/ physicist, he was (b)/ invited to deliver (c)/ a lecture on laser technology. (d) No error (e)

Directions (Q. Nos. 4-8) Which of the following phases (a), (b), (c) and (d) given below each sentence should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark (e) as the answer.

4. My doctor knows that I would eventually recover and do the kind of work I would be doing before.

(a) would had being doing
(b) would have done
(c) had been done
(d) would have doing

5. If you are thinking about investing overseas, is it make sense to find an experienced guide.

(a) it is making
(b) it makes
(c) it make
(d) No correction required

6. Technology must use to feed the forces of change.

(a) must be used to feed
(b) must have been using to feed
(c) must being used to feed
(d) must be using to feed
(e) No correction required

Directions (Q. Nos. 7-11) Choose the most suitable option to fill the blanks in the most suitable manner.

7. Traders and businessmen from Japan have _____ the world markets of electronic goods by using low cost strategy.

(a) supplied
(b) taken over
(c) controlled
(d) dominated

8. The committee have accepted your suggestions _____ with some modifications.

(a) totally
(b) complete
(c) whole
(d) entire

9. We need such a banking system which _____ top class services to its customers.

(a) arranges
(b) provides
(c) motivates
(d) contributes

10. The meeting, which was scheduled to be held on the 19th of this month, was .... due to University examinations.

- A. resisted
- B. postponed
- C. disheveled
- D. called

11. If all those factors turn out to be favourable, India will start .... on the a faster growth path.

- A. enjoying
- B. looking
- C. reaching
- D. reaching

Direction to. Nos. 12-20) Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you locate them while answering some of the questions.

There appears to be a relative lull on the power front. After the initial euphoria with regard to allowing the entry of private and foreign capital into the power sector, the promised guaranteed 10% return on net worth, liberal financing facilities, a higher than usual debt and equity norm, the government is now waiting for the **flood** to prime. How realistic are the expectations of the government can be made out by the response of the private sector.

Till date, there is less than 1000 mw of generation capacity under active implementation in the private sector, mostly by those companies which are already involved in power generation and distribution. There are very few **actors** entering the business.

According to power ministry sources, there are proposals to put up more than 8000 mw of generation capacity in the private sector out of which about 50% will come in with foreign investment; but how many of these proposals will materialize?

Many of them are merely undergoing viability studies or are restricted to the signing of memoranda of understanding with respective government agencies. As regard foreign investment in this sector the less said the better. The 2000 mw projects in Odisha which was announced with great fanfare by the State government is now in the dumps because Southern Power Corporation, USA decided to back out of it.

It has also been the experience that while foreign companies are willing to extend credit, supply equipment and set-up the generation facilities, they are not so **forthcoming** when it comes to equity participation and running the plants. At this rate it is unlikely that there will be any substantial addition to generation capacity in the private sector in the Ninth Plan, leave alone the Eighth Plan. And even if all of these projects do come through—a very unlikely prospect—it will be of only marginal significance, a mere 10% of the planned additional generation capacity of 80000 mw by the end of the Ninth Plan.

12. Which of the following has the same meaning to the word 'Flood' as it has been used in the passage?

- A. Large number of offers to start units
- B. End of the public sector units
- C. Large volume of water to run power plants
- D. Public sector units to go down completely
- E. An extremely large number of people

13. Which of the following represents most closely the author's opinion regarding the development of power generation units?

- A. He is very optimistic about it.
- B. He feels that so few units in private sector would be started.
- C. He feels that fewer units than anticipated will actually start.
- D. He feels that public sector units could be started.
- E. None of the above

14. What is the problem in realising the 8000 mw capacity which the government is anticipating?

- A. Fifty percent equity is expected from foreign investors for all project
- B. Many of the proposals are in the preliminary stages only.
- C. It can fulfil only 10% of the plan requirements.
- D. The US government does not approve of this project.
- E. The government is not committed to the development of the sector.

15. Which of the following has not been indicated in the passage as an incentive for increasing power generation capacity?

- A. Very easy loan facilities
- B. Permitting foreign investors
- C. A guaranteed minimum return on investment
- D. Joint ventures by the government
- E. Permitting private investor

16. By how many does the Ministry anticipate the power generation capacity in private sector to go up when compared to existing private sector capacity?

- A. It expects it to go up by 100%
- B. It expects it to go up by 50%.
- C. It expects it to go up by 500%
- D. Data inadequate in the passage
- E. None of the above

17. What is the author's estimation regarding the increase in power generation in private sector at the end of the Ninth Five Year Plan to the planned capacity?

- A. It is likely to be around 10%.
- B. It is likely to be higher than 10%.
- C. It is likely to be far less than 10%.
- D. It is likely to be around 50%.
- E. It is likely to be around 30%.

18. Which of the following words has the same meaning to the word 'Actors' as it has been used in the passage?

- A. Performers
- B. Companies
- C. Foreigners
- D. Villains
- E. Private companies

19. Which of the following words has the same meaning to the word 'Forthcoming' as it has been used in the passage?

- A. Approaching
- B. Generous
- C. Available
- D. Liberal
- E. Understanding

20. Why should there be 'new actors' entering the business of power generation?
a. Power generation is a key industry.
b. Public sector is unable to cope with the load.
c. There is a limit to the investment existing companies in the sector can make.
d. Government has taken off the cap on investment by companies.
e. Existing companies cannot attract foreign investment.

Directions (Q. Nos. 21-30) *In the following passage there are blanks each of which has been numbered. Find out the appropriate words the questions similarly numbered.*

The **(21)** of resources in India's health programmes have never, as far as can be **(22)**, been for the budget of published research of high quality and hence the unsatisfactory **(23)** of the foregoing account of the government sector. Nevertheless India's health **(24)** shares several features of the **(25)** of health services in other developing countries whose professional medical structures and **(26)** of health facilities are **(27)** from a colonial past. These features include a **(28)** share of health budgets **(29)** to major hospitals in urban centres and a consequent relative **(30)** of the rural health infrastructure.

21. a. precedence   b. scarcity   c. preponderance
d. allocation   e. misappropriation

22. a. utilised   b. ascertained   c. afforded
d. inevitable   e. ascertained

23. a. motive   b. measure
d. progress   e. nature   c. state

24. a. development   b. plan   c. system
d. programme   e. arrangement

25. a. pattern   b. performances
d. length   e. beauty   c. empty

26. a. imported   b. launched   c. discovered
d. restrained   e. created

27. a. complete   b. grand   c. large
d. inherited   e. contributed

28. a. tiny   b. disproportionate
d. large   e. little   c. small

29. a. distributed   b. attributed
d. contributed   e. deposited   c. added

30. a. neglect   b. advance   c. performance
d. dependence   e. nature

Directions (Q. Nos. 31-33) *In the following questions.*

31. $(81) \cdot \frac{1}{2} - (64) \cdot \frac{1}{2} + ?$
a. $\frac{1}{49}$ b. $\frac{1}{7}$
c. 7   d. $\frac{7}{144}$
e. None of these

32. $331.8 + 23.7 \div (-\frac{1}{4})^2 - 94 = (?)^2$
a. 4   b. 72
c. 22   d. 62
e. None of these

33. 345 of $576 + 18\%$ of $842 = ?\%$ of $400 + 83.4$
a. 72   b. 65
c. 6.2   d. 5.2
e. None of these

34. $\frac{\sqrt{29241}}{\sqrt{361}} \div ? = \frac{1}{5}$
a. 75   b. 85
c. 84   d. 95
e. None of these

35. $\frac{3}{4} \times \frac{7}{5} \times \frac{5}{7} = ?$
a. $\frac{3}{4}$ b. $\frac{5}{7}$
c. $\frac{7}{5}$ d. $\frac{4}{3}$
e. None of these

Directions (Q. Nos. 36-40) *In the following number series, only one is wrong. Find out the wrong number.*

36. 14   13   22   93   212   1055
a. 13   b. 212
c. 93   d. 1055
e. 22

37. 16   14   24   108   452   2930
a. 24   b. 452
c. 108   d. 2930
e. 14

38. 488   245   124   64   34   18.5
a. 124   b. 64   c. 245
d. 34   e. 18.5

39. 16   25   45   58   74   81
a. 16   b. 74   c. 58
d. 25   e. 81

40. 2   3   7   16   37   93
a. 16   b. 37   c. 7
d. 3   e. None of these

Directions (Q. Nos. 41-45) *What approximate value should come in place of the question mark (?) in the following questions?*

41. $10^2 \times 10^3 + 999999999 = 10^? \times 10^?$
a. 14.2   b. 15.2
c. 16.9   d. 6.8
e. None of these

42. 1345 of $3894 + 38.945 \div 123 = ?$
a. 5200   b. 5300
c. 5000   d. 5800
e. 5500

43. $(1 \div 99) \div (50 \div 74) = ?$
a. 2581   b. 1331
c. 1888   d. 1800   e. 1250

44. $\frac{2}{5} \times \frac{3}{4} + \frac{5}{8} = ?$
a. 5   b. 8
c. 3   d. 6   e. 7

45. $\sqrt{1000000.000001} = ?$
a. 10   b. 100
c. 1000   d. 10000
e. None of these

46. The ratio of perimeters of two squares is 3 : 4. The ratio of their areas will be
a. $\frac{3}{4}$ b. $\frac{9}{16}$
c. $\sqrt{3}$ d. None of these

47. In year 2008, 5000 students were admitted in a college. It is found that the number of students admitted is constantly increasing by 24% per year. How many students will be admitted in the college in the year 2010?

a. 7688
b. 7860
c. 7968
d. 7800

48. Three men or eight boys can do a piece of work in 17 days. How many days will two men and six boys together take to finish the same work?

a. 25 days
b. 11 days
c. 14 days
d. 15 days

49. The cost price of an item is two-third of its selling price. What is the gain/loss percent on this item?

a. 45%
b. 50%
c. 55%
d. None of these

50. The ratio between the present ages of Dheeraj and Raman is 2 : 3 respectively. Four years ago, the ratio between their ages was 5 : 8 respectively. What will be Dheeraj's age after 7 years?

a. 37
b. 29
c. 39
d. 41 yr

51. Arjun got a simple interest of ₹750 on a principle of ₹2500 in 4 years. What is the rate percent per annum?

a. 6.5%
b. 6%
c. 7.5%
d. 7%

52. Anita purchased a bicycle at a cost ₹ 3201. She sold it at a loss of ₹ 240. At what price did she sell the bicycle?

a. ₹2960
b. ₹2970
c. ₹2840
d. None of these

53. Reshma's monthly income is 22% more than that of Neelam's monthly income. If Neelam's monthly income is ₹ 3300, what is Reshma's monthly income?

a. ₹4270
b. ₹4026
c. ₹4370
d. None of these

54. Gunaji purchased 40 kg of sugar at ₹ 15.20 per kg and mixed it with 60 kg of sugar purchased at ₹ 14.40. If he sells the mixture at ₹ 15.40 per kg, how much was his gain/loss in this transaction?

a. No loss no profit
b. ₹ 36 gain
c. ₹ 36 loss
d. None of these

55. Jatin purchases two newspapers A and B every day. Newspaper A cost ₹ 2.50 per day and B cost ₹ 2 per day. What would be his total expenditure for these two newspapers for 45 days?

a. ₹202.50
b. ₹ 135
c. ₹225
d. None of these

56. A and B are two alloys of diamond and silver, prepared by mixing metals in the ratio 7 : 2 and 7 : 11 respectively. If equal quantities of the

alloys are melted to form a third alloy C, the ratio of diamond and silver in C will be

a. 5 : 9
b. 5 : 7
c. 7 : 5
d. 9 : 5

57. A wire in the form of a circle of radius 84 cm is cut and bent to form a square. What would be the side of the square?

a. 152 cm
b. 120 cm
c. 136 cm
d. None of these

58. In an examination, 35% of the examinees were failed in General Knowledge and 25% in the compulsory paper. If 10% of the examinees failed in both General Knowledge and the compulsory paper, the percentage of examinees passed was

a. 40%
b. 45%
c. 48%
d. 50%

59. The smallest natural number which when added to the difference of square of 17 and 13, gives a perfect square, is
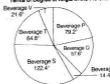
a. 50
b. 52
c. 56
d. 64

60. The speed of a boat in still water is 7.5 km/h. If the speed of stream is 2.5 km/h, then time taken to go a distance of 15 km and come back to starting point, is

a. 4 h
b. 4.5 h
c. 6 h
d. 6.5 h

Directions (Q. Nos. 61-65) Study the following pie-chart and answer the questions given below.

Preferences of Students among Six Beverages
Ratio of Degree of Angle in the Pie-chart

Total Number of Students = 6800

61. What is the difference between the total number of students who prefer beverages P and R together and the total number of students who prefer beverages S and V together?

a. 968
b. 952
c. 1152
d. None of these

62. What is the respective ratio between the number of students who prefer beverage V and the number of students who prefer beverage P?

a. 3 : 1
b. 3 : 5
c. 1 : 3
d. 5 : 3

63. The number of students who prefer beverages T and V together are what percent of the total number of students?

a. 22%
b. 30%
c. 20%
d. 24%

64. The number of students who prefer beverage R are approximately what percent of the number of students who prefer beverage S?
- a. 9%
- b. 12%
- c. 18%
- d. 24%
- e. 27%

65. How many students prefer beverages Q and T together?
- a. 2011
- b. 2031
- c. 2301
- d. 2325
- e. None of these

▷ Part III Reasoning Ability

66. Each odd digit in the number 5263187 is substituted by the next higher digit and each even digit is substituted by the previous lower digit and the digits so obtained are rearranged in ascending order. Which of the following will be the third digit from the left end after the rearrangement?
- a. 2
- b. 4
- c. 6
- d. 1
- e. None of these

67. Town D is towards East of town F. Town B is towards North of town D. Town H is towards South of town B. Towards which direction is town H from town F?
- a. East
- b. South-East
- c. North
- d. South
- e. None of these

68. Among A, B, C, D and E each having different weight, D is heavier than only A and C is lighter than B and E. Who among them is the heaviest?
- a. B
- b. E
- c. C
- d. Data inadequate
- e. None of these

69. How many such pairs of letters are there in the word SEARCHES each of which has as many letters between them in the word as in the English alphabet?
- a. None
- b. One
- c. Two
- d. Three
- e. None but these

70. If + means ÷, - means ×, × means ÷ and ÷ means -, then 15 - 8 × 6 + 12 ÷ 4 = ?
- a. 2
- b. $2\frac{1}{3}$
- c. $8\frac{1}{3}$
- d. 9
- e. None of these

71. S is mother of T. T is husband of J. N is son of J. Z is father-in-law of J. K is brother of N. How K is related to Z?
- a. Son
- b. Grandson
- c. Daughter
- d. Granddaughter
- e. None of these

Directions (Q. Nos 72-76) Study the following information carefully to answer the questions given below.

There are six persons J, K, L, M, N and O each having different marks. J got more marks than N and M. O got less marks than that of J. K got more marks than J but he did not get the highest marks. M got less marks than that of O but he did not get the lowest marks.

72. How many persons got marks less than that of J?
- a. One
- b. Two
- c. Three
- d. Four
- e. Five

73. Who among the following got the highest marks?
- a. J
- b. K
- c. O
- d. L
- e. N

74. If K got 65 marks then what may be the marks of M?
- a. 74
- b. 72
- c. 68
- d. 66
- e. 76

75. How many persons got less marks than that of N?
- a. None
- b. One
- c. Two
- d. Three
- e. None of these

76. Who among the following got the lowest marks?
- a. J
- b. K
- c. O
- d. L
- e. M

77. In a certain code language, LIVES is written as 12 & 45 and LATER is written as 25 498. How will REAL be written in that code language?
- a. 4982+
- b. 4892+
- c. 4829+
- d. 4928+
- e. None of these

78. In a certain code, DRIVING is written as M17 @ 4%. In the same code, how will TRIP be written in that code?
- a. 71 @ 5
- b. 71 @ 9
- c. 71 # 9
- d. 7 @ 1 %
- e. None of these

Directions (Q. Nos 78-80) In each question below are two or three statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

78. **Statements** No colour is a paint.
No colour is a varnish.
Conclusions
I. No varnish is a paint.
II. At least some varnishes are paints.

79. **Statements** All plugs are sockets.
All sockets are plugs.
Conclusions
I. All plugs are caps.
II. All sockets are plugs.

80. **Statements** Some plants are mountains.
All plans are rivers.
Conclusions
I. All mountains are plants.
II. At least some mountains are rivers.

81. **Statements** No month is a week.
Some weeks are weeks.
Conclusions
I. No week is a year.
II. Some weeks are years.

82. Statements All planets are stars.
All meteors are stars.
No orbit is a star.

Conclusions
All meteors are stars.
No orbit is a star.

Direction (Q. Nos. 83-87) Study the following information carefully to answer the given questions.

Eight persons P, Q, R, S, T, U, V and W are sitting around a circular table facing towards the centre but not necessarily in the same order. Q is sitting third to the left of W. Two persons are sitting between Q and P. R is sitting second to the left of S. S is not an immediate neighbour of W. T and U are immediate neighbours of each other. Only one person is sitting between U and V.

83. Who among the following is to the immediate left of W?
a. R   b. U   c. Q   d. P   e. V

84. How many persons are seated between R and Q, if we go anti-clockwise from R to Q?
a. None   b. One   c. Two   d. Three   e. Four

85. What is the position of V with respect to P?
a. Second to the right   b. Second to the left
c. Third to the right   d. Third to the left
e. None of these

86. Who among the following is sitting second to the right of S?
a. Q   b. R   c. T   d. V   e. W

87. If all the persons are asked to sit in a clockwise direction in an alphabetical order starting from P, the position of how many will remain unchanged, excluding T?
a. None   b. One   c. Two
d. Three   e. Four

Directions (Q. Nos. 88-89) Following questions are based on the five letter-lettered words given below.

SHE ANG TWO WIT GUM

88. If all the letters in each of the words are arranged in alphabetical order (within the word), how many words will remain unchanged?
a. None   b. One   c. Two
d. Three   e. More than three

89. According to the English alphabetical series how many letters are there between the first letter of the second word and the first letter of the fifth word?
a. None   b. One   c. Two
d. Three   e. More than three

Directions (Q. Nos. 90-91) Study the following arrangement carefully and answer the questions given below.

1 5 0 4 2 1 5 0 3 4 6 0 1 9 8 5 4 5 6 8 7 4

90. Which of the following is ninth to the left of twenty-first from the left end of the given arrangement?
a. 2   b. 4   c. 0   d. 6   e. None of these

91. How many such are there in the given arrangement, each of which is immediately preceded by an odd digit and immediately followed by an even digit?
a. None   b. One   c. Two
d. Three   e. None of these

Directions (Q. Nos. 92-96) Study the following information carefully and answer the questions given below.

Seven persons Q, R, S, T, U, V and W are sitting in a straight line facing North but not necessarily in the same order. R is fourth to the left of W. S is to the immediate right of V. V is second to the left of T, U and immediate neighbours.

92. Who among the following is seated exactly in the middle?
a. T   b. R   c. V   d. Q   e. None of these

93. How many persons are seated between V and T?
a. None   b. One   c. Two
d. Three   e. More than three

94. Which of the following represents persons seated at the two extreme ends?
a. U and S   b. Q and V   c. S and T
d. T and W   e. None of these

95. What is Q's position with respect to S?
a. Third to the right   b. Second to the left
c. Third to the left   d. Second to the right
e. None of these

96. Four of the following five are alike in a certain way based on their seating position in the given arrangement and so form a group. Which is the one that does not belong to the group?
a. RV   b. QT   c. VS   d. WU   e. WT

Directions (Q. Nos. 97-100) Study the following information carefully and answer the questions given below.
In a certain code language
'that can wait' is written as 'la gi co'
'come wait here' is written as 'ka ti gi'
'can come take' is written as 'na ta la'

97. Which of the following is the code of here?
a. ga   b. co   c. Either 'ka' or 'ta'
d. ka   e. ti

98. The code 'la ga' may represent
a. can come take   b. come take here
c. take come wait   d. come take here

99. Which of the following may represent 'come here what'?
a. co gu ti   b. ti co ka
c. gi ga te   d. na te ka

100. Which of the following is the code of can?
a. la   b. co   c. gi   d. na   e. ti