BANK OF BARODA RECRUITMENT

PROBATIONARY OFFICERS – MODEL PAPER

No. of Questions: 200   **Maximum Marks: 200**   **Time: 2 hours**

TEST OF REASONING

Directions (Q.1 – 5): Each of the questions below consist of a questions and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements. Give answer

(1) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

(2) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

(3) If the data either in statement I alone or in statement II alone is sufficient to answer the question.

(4) If the data in both statements I and II together are not sufficient to answer the question.

(5) If the data in both statements I and II together are necessary to answer the question.

1. How Rishu related to Mr.Amrendra?

I) Rishu is the grandson of Amrendra's father.

II) Amrendra has no sisters but has several friends and each of his friends is the only son in his respective family.

2. In which directions was the tourist train XYZ running?

I) A person P sitting in the train saw that his image fell exactly on his right but the image of his brother Q sitting him fells on his left.

II) The train was not moving towards South.

3. What is the code for 'X; in a code language in which the word 'MIXER' is written as '>)★=●'?

I) In the code language STRIP, MAPRO and ASTER are written as '=@$●<' '(#@>●' and '$●<★#' respectively.

II) In the code language MISER is written as '>$★=●'.

4. In an examination 1400 candidates appeared for three tests P, Q and R, how many students passed in at least two persons?

I) The numbers of students who failed in P, Q and R each are equal in number. Also, the numbers of students who failed in both P and Q, Q and R. R and P equal and each number is half of the number of students failed in P but twice the number of students who failed in all the three tests.

II) Half of the total students passed in all the three tests.

5. How many matches did India win in a series of ten matches against Australia?

I) When the fifth match was being played India had won all the previous matches.

II) Only one of the matches ended in a draw but the result of the matches played before and after the match drawn were in India's favour whereas all the matches played after the seventh match were in India's favour.

R-19,20,21,22,23-5-17

Directions (Q.6 – 10): Study the following information carefully and answer the questions which follow.

I)   A, B, C, D, E and F are members of a family consisting of three generations. The family consists of two pairs of couples. The family consists of only three females. The oldest member in the family is a female but the youngest one is a male. No two persons are of the same age.

II) One day they visited a restaurant and sat around a table facing towards the centre. D sat opposite the person who occupies the third place when their ages are considered in descending order.

III) A is the grandfather of F and sat on the immediate right of D, who is the father of C but not the husband of E. Persons of the same generation sat opposite each other. B sat on the immediate right of a female. F is not the youngest.

6. The youngest person sat between which of the following two persons?

1) D and E   2) B and A

3) D and B   4) Data inadequate

5) None

7. The only persons who sat between E and F not the person who is ......

1) the mother of F

2) the daughter-in-law of A

3) the wife of D

4) the second in position in descending order of age

5) the daughter-in-law of E

8. The persons who are adjacent to E, are ......

1) B and F   2) C and D

3) C and B   4) Data inadequate

5) None

9. Which of the following shows the correct order rightward from the position of A?

1) A, F, B, E, D, C   2) A, D, E, C, B, F

3) A, D, C, E, B, F   4) Data inadequate

5) None of these

10. Which of the following statements is / are not true?

I) One of the couples is A and E.

II) D is the son of E whereas B is the wife of D.

III) C is the brother of F.

IV) E, B and F are females.

1) All I, II, III and IV   2) Only III

3) III and IV   4) None

5) All of these

Directions (Q.11 – 15): Study the following information carefully and answer the questions given below.

P, Q, R, S, T, V, W and Z are travelling to three destinations Delhi, Chennai and Hyderabad in three different vehicles - Honda City, Swift D'zire and Ford Ikon. There are three females among them one in each car. There are atleast two persons in each car. R is not travelling with Q and W. T a male, is travelling with

only Z and they are not travelling to Chennai. P is travelling in Honda City to Hyderabad. S is sister of P and travels by Ford Ikon. V and R travel together. W does not travel to Chennai.

11. Members in which car are travelling to Chennai?

    1) Honda City

    2) Swift D'zire

    3) Ford Ikon

    4) Either Swift D'zire or Ford Ikon

    5) None of these

12. In which car are four member travelling?

    1) None   2) Honda City

    3) Swift D'zire   4) Ford Ikon

    5) Honda City or Ford Ikon

13. Which of the following combinations represents the three female members?

    1) QSZ   2) WSZ   3) PSZ   4) Can't be determined

    5) None of these

14. Who is travelling with W?

    1) Only Q   2) Only P

    3) P and Q   4) Can't be determined

    5) None of these

15. Members in which of the following combinations are travelling in Honda City?

    1) PRS   2) PQW   3) PWS   4) Date inadequate

    5) None of these

Directions (Q.16 – 20): These questions are based on the following information.

Input: 82 Price Rice Mango 62 Orange 54 37

Step I: 37 Price Rice Mango 62 Orange 54 82

Step II: 37 Rice Price Mango 62 Orange 54 82

Step III: 37 Rice 54 Mango 62 Orange Price 82

Step IV: 37 Rice 54 Price 62 Orange Mango 82

Step V: 37 Rice 54 Price 62 Orange 82 Mango

Step V is output of the machine.

16. "Star 62 Rose 72 59 Tiger Gun 42" is input of a machine, then how many steps are required to get the final output?

    1) VI   2) IV   3) Ill   4) V

    5) Can't be determined

17. If "Lemon 43 56 37 King 21 Network Master" is input and then "21 Network 37 Master 43 King Lemon 56" is one of the steps of the machine, which number of step is it?

    1) IV   2) V   3) VI   4) Not possible

    5) None of the above

18. If the input of a machine is "52 June March 42 April September 92 November 62 82", then what will be the step VI?

1) 42 September 52 November 62 March 92 June 82 April

2) 42 September 52 November 62 March June 92 82 April

3) 42 September 52 November 62 March 92 June April 82

4) 42 September 52 November 62 March June April 92 82

5) 42 September 52 November 62 March 92 April June 82

19. If "21 Force 32 Defence Cargo 40 Air 36" is step III, then which step will be the last step of this machine?

1) VI   2) VII   3) VIII   4) V

5) IX

20. In a machine "24 So For To 84 Do 76 96 Go" is the step IV, then what will be the definite input of this step?

1) 76 For So To 24 Do 84 96 Go

2) For 84 To 24 So Do 96 76 Go

3) 24 So 76 To For 84 Do 96 Go

4) Can't be determined

5) None

Directions (Q.21 – 25): Ineach question below is given a statement followed by three courses of action numbered I, II and III. A course of action is a step or administrative decision to be taken for improvement, follow up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, you have to assume everything in the statement, to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

21. Statement: Many political activists have decided to stage demonstrations and block traffic movement in the city during peak hours to protest against the steep rise in prices of essential commodities.

Courses of action:

I) The Government should immediately ban all forms of agitations in the country.

II) The police authority of the city should deploy additional forces all over the city to help traffic movement in the city.

III) The state administration should carry out preventive arrests of the known criminals staying in the city.

1) Only I   2) Only II   3) Only III   4) I and II

5) None of these

22. Statement: The school dropout rate in many districts in the state has increased sharply during the last few years as the parents of these children make them work in the fields owned by others to earn enough for them to get atleast one meal a day.

Courses of action:

I) The Government should put up a mechanism to provide foodgrains to the poor people in these districts through public distribution system to encourage the parents to send their wards to school.

II) The Government should close down some of these schools in the district and deploy the teachers of these schools to nearby schools and also ask remaining students to join these schools.

III) The Government should issue arrest warrants for all the parents who force their children to work in fields instead of attending classes.

1) Only I   2) Only II   3) Only III   4) I and II

5) None of these

23. **Statement:** A large private bank has decided to retrench one-third of its employees in view of the huge losses incurred by it during the past three quarters.

Courses of action:

I) The Government should issue a notification to general public to immediately stop all transactions with the bank.

II) The Government should direct the bank to refrain from retrenching its employees.

III) The Government should ask the central bank of the country to initiate. an enquiry into the bank's activities and submit its report.

1) I and III   2) Only I   3) Only II   4) Only III

5) None of these

24. **Statement:** One aspirant was killed due to stampede while participating in a recruitment drive of police constables.

Courses of action:

I) The officials incharge of the recruitment process should immediately be suspended.

II) A team of officials should be asked to find out the circumstances which led to the death of the aspirant and submit its report within a week.

III) The Government should ask the home department to stagger the number of aspirants over more number of days to avoid such incidents in future.

1) Only I   2) Only II   3) Only III   4) II and III

5) None of these

25. **Statement:** A heavy unseasonal downpour during the last two days has paralysed the normal life in the state in which five persons were killed but this has provided a huge relief to the problem of acute water crisis in the state.

Courses of action:

I) The State Government should set up a committee to review the alarming situation.

II) The State Government should immediately remove all the restrictions on use of potable water in all the majorities in the state.

III) The State Government should send relief supplies to all the affected areas in the state.

1) Only III   2) Only I   3) II and III   4) All of these

5) None of these

Directions (Q.26 – 30): Read the following information carefully and answer the questions given below it.

Six hijackers of different heights and expertise in different fields, viz. negotiation, determining human psychology, technical, aviation, piloting and planning, hijacked the Indian Airlines plane IC814.

5' 11" tall Sunny Ahmed Kazi was either psychiatrist or negotiator. Ibrahim Athar and Sahid Akhtar Sayed were the tallest and shortest among the hijackers, though not respectively. The pilot and Shakirwere neither tallest nor shortest among the hijackers. 6' tall hijacker, who was expert of planning was shorter than Mistri Zahur Ibrahim. The name of the sixth hijacker is still unknown but it was clear that he was either

technician or pilot. The shortest hijacker was technician. Their heights were in arithmetic progression with difference 1" and minimum height 5' 9". Shahid Akhtar Sayed was psychiatrist.

26. The unknown hijacker had the height .....

   1) 6' 1"   2) 5' 10"

   3) 5' 9"   4) can't be determined

   5) None of these

27. Mistri Zahur Ibrahim was expert in the field of ....

   1) Aviation   2) Planning

   3) Psychology   4) Can't be determined

   5) None of these

28. Who had the expertise in planning?

   1) Mistri Zahur Ibrahim   2) Ibrahim Athar

   3) Shakir   4) Can't be determined

   5) None of these

29. Who was tallest among the hijackers?

   1) Ibrahim Athar   2) Shahid Akthar Sayed

   3) Mistri Zhur Ibrahim   4) Can't be determined

   5) None of these

30. What was tallest among the hijackers?

   1) 5' 9"   2) 5' 10"   3) 6' 2"   4) Can't be determined

   5) None of these

Directions (Q.31 – 35): In each of the questions below are given two statements followed by two assumptions numbered I and II. An Assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of then assumptions is implicit in the statement. Give answer

   (1) If only assumption I is implicit

   (2) If only assumption II is implicit

   (3) If either assumption I or assumption II is implicit

   (4) If neither assumption I nor assumption II is implicit

   (5) If both assumption I and assumption II are implicit

31. **Statement:** 'You are expected to be frank and objective while writing your self appraisal report'. An instruction for writing selfappraisal report.

   Assumptions:

   I. Unless cautioned, people may tend to be little shy and less objective while writing their self-appraisal report.

   II. Every self-appraisal report helps the person in his further development.

32. **Statement:** The higher echelon of any organization are expected to be models of observational learning and should not be considered as merely sources of reward and punishments

   Assumptions:

I. Employees are likely to be sensitive enough to learn by observing the behaviour of their bosses.

II. Normally bosses are considered as sources of reward and punishment

33. **Statement:** 'But, out of A,B,C and D products, you but 'B' which alone is based on the international technology. 'A shopkeeper tells a customer'.

    Assumptions:

    I. The Customers normally accepts the recommendation of the shopkeeper

    II. Use of international technology is supposed to ensure better quality standards.

34. **Statement:** The organization should promote employees on the basis of merit alone and not on the basis of length of service or seniority.

    Assumptions:

    I. Length of service or seniority does not alone reflect merit of an employee

    II. It is possible to determine and measure merit of an employee

35. **Statement:** Highly brilliant and industrious students do not always excel in the written examination

    Assumptions:

    I. The written examination is good mainly for mediocre students.

    II. The brilliant and industrious students cannot always write good answers in the exam.

Directions (Q.36 – 38): Study the following information to answer the given questions.

In a certain **'ek la ki'** means 'don't touch flowers', **'ra ku'** means 'respect teachers' and **'ek ra le'** means 'don't hurt teachers'.

36. How is 'respect' written in that code?

    1) ra   2) ku   3) Either ra or ku   4) Can't be determined

    5) None of these

37. How is 'flowers' written in that code?

    1) ek   2) la   3) ki   4) Can't be determined

    5) None of these

38. How is 'teachers touch flowers' written in that code?

    1) ki le ra   2) ra ek ki   3) ki la ra   4) Can't be determined

    5) None of these

Directions (Q.39 – 40): Study the following information to answer the given questions.

In a certain code language '781' means 'rose is red', '276' means 'old is gold' and '698' means 'old looks red'.

39. What number is the code for 'is'?

    1) 1   2) 2   3) 4   4) 7

    5) None

40. What number is the code for 'rose'?

    1) 1   2) 4   3) 8   4) 6

    5) None

Directions (Q.41 – 45): In each question below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusion and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

41. **Statements:** No rats are elephants.

    All dogs are elephants.

    All dogs are cows.

    Conclusions: I. Some dogs are not rats.

    II. Some elephants are cows.

    III. Some cows are not rats.

    IV. No rats are dogs.

    1) All follow   2) I, II and III

    3) II, III and IV   4) I, III and IV

    5) None of these

42. **Statements:** No elephants are rats.

    All cows are elephants.

    All dogs are cows

    Conclusions: I. Some elephants are not dogs.

    II. Some cows are not dogs.

    III. All elephants are dogs.

    IV. No dogs are rats.

    1) None follow   2) Only IV

    3) I, II and IV   4) I and IV

    5) None of these

43. **Statements:** All books are pencils.

    No pencils are copies.

    All copies are dusters.

    Conclusions: I. Some books are not copies.

    II. Some copies are not books.

    III. Some dusters are not books.

    IV. Some books are not dusters.

    1) All follow   2) I, II and III

    3) II, III and IV   4) II and III

    5) None of these

44. **Statements:** All books are pencils.

    No pens are books.

    All dusters are pens.

Conclusions: I. Some pencils are dusters.

        II. No dusters are books.

        III. Some Pencils are not dusters.

        IV. No pencils are dusters.

1) II, III and IV

2) II and either I or III follow

3) II, III and either I or IV follow

4) III and either I or IV follow

5) None of the above

45. **Statements:** All books are pencils.

        Some books are pens.

        No pins are pens.

Conclusions: I. Some books are pins.

        II. Some pencils are pins.

        III. Some pens are not pencils.

        IV. Some books are not pens.

1) None follow   2) Only I

3) All follows   4) Only II

5) None of these

46. It has been reported in many leading newspapers that the current year's monsoon may be below the expected level as many parts of the country are still not getting adequate rainfall.

Which of the following can be a possible fallout of the above situation?

1) People from those affected areas with less rainfall may migrate to urban areas.

2) Government may announce ex-gratia payment to all the farmers affected in these areas

3) Government may declare these areas as drought affected areas

4) people may blame the Government and agitate for not getting adequate water for cultivation.

5) None of these

47. There has been a spate of rail accidents in India in recent months killing large numbers of passengers and injuring many more. This has raised serious doubts about the railway's capability of providing safety to travelers. Which of the following statements substantiates the views expressed in the above statements?

1) Indian Railway has come to be known to provide best passenger comfort in the recent years.

2) People have no option other than travelling by rail over long distances.

3) The railway tracks at many places have been found to stressed due to wear an tear in the recent times.

4) Local residents are always the first to provide a helping hand to the passengers in the event of such disasters.

5) None of these

48. A few travelers were severely beaten up by villagers recently in a remote rural part of the state as the villagers found the movement of the travelers suspicious. The District authority has sent a police team to nab the culprits.

Which of the following inference can be drawn from the above statements? (An inference is something which is not directly started but can be inferred from the given facts)

1) The villagers dislike presence of strangers in their vicinity

2) Villagers are generally suspicious in nature

3) Travellers prefer to visit countryside

4) The Government generally provides protection to travelers across the country..

5) None of these

49. There has been a considerable drop in sales of four wheelers during the past six months when compared to the number of four wheelers sold during this period last year.

Which of the following can be the probable cause of the above phenomenon?

I. The Government has imposed higher excise duty on four wheelers at the beginning of this year.

II. The petrol prices have risen considerable during the past eight months.

III. The rate of interest on home and car loans have been rising for the past seven months.

1) Only I   2) I and II   3) II and III

4) Only II   5) All I , II and III

50. There is an alarming trend of skewed sex ration against women in India during the past decade and situation may get out of hand if adequate steps are not taken to stop female foeticide.

Which of the following can be an effective step to reverse the trend?

I. The Government should immediately completely ban use of scanners / sonography on expectant mothers at all health centres.

II. The Government should announce a substantial incentive scheme for couples who have atleast one girl child

III. The Government should launce a national wide campaign to create awareness against female foeticide.

1) Only I   2) I and II   3) II and III   4) All the three

5) I and III

QUANTITATIVE APTITUDE

Directions (Q.51 – 55): What should come in place of question mark (?) in the following number series?

51. 13, 35, ?, 299, 893, 2675

1) 97   2) 99   3) 101   4) 103

5) 107

52. 49, ?, 169, 289, 361, 529

1) 81   2) 144   3) 196   4) 121

5) 112

53. 26, 43, 69, ?, 181, 293, 474, 767

1) 81   2) 144   3) 196   4) 121

5) 112

54. 30, 132, ?, 4110, 28812, 230552

1) 443   2) 512   3) 610   4) 680

5) 710

55. 13, 16, 20, 22, 34, ?, 55, 52, 83, 76

1) 34   2) 38   3) 42   4) 43

5) 46

Directions (Q.56 – 60): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read the question and both the statements and give answer

(1) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

(2) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

(3) If the data either in statement I alone or statement II alone is sufficient to answer the question.

(4) If the data in both the statements I and II together is not sufficient to answer the question.

(5) If the data in both the statements I and II together is necessary to answer the question.

56. What is the annual income of Mr. Krishna Murthy form April 2001 to March 2002?

I. The annual income of Mr Krishnamurthy is 70% more than that of his boss.

II. In April 2001 the income of Krishnamurthy was Rs.12,000 and his income increases 10% per month.

57. What is the area of circular field?

I. The circumference of the field is x m.

II. The diameter of the field is in y m.

58. What is the speed of boat in still water?

I. The boat covers a distance 35 km in 5 h in downstream.

II. The boat takes 7 h to cover the same distance in upstream.

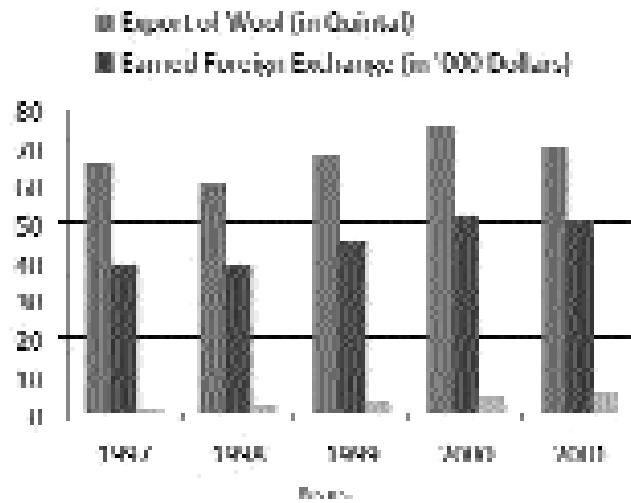**59.** How many students are there in the class?

I. The ratio between the number of boys and girls is 5 : 6, respectively.

II. The difference between the numbers of boys and girls is 7.

60. What is the amount of earned profit?

I. On selling the article for price is Rs.1,740, 20% profit is earned.

II. The cost price of the article is Rs.1,400.

Directions (Q.61 – 65): Study the following bar diagram carefully and answer the questions given below it.

Export of Wool and Foreign Exchange Earned

61. If the exchange rate of American dollar is Rs.31.25, then the earned foreign exchange equivalent during five years approximately (in Rs.) will be

1) 650000   2) 800000

3) 9500000   4) 7000000

5) 7500000

62. What was the approximate percentage of exported wool in 1999 of the total exported wool during the given years?

1) 10   2) 15

3) 20   4) 25

5) 30

63. During which of the following years, the price of wool per quintal was maximum?

1) 1997   2) 1998

3) 1999   4) 2000

5) 2001

64. What is the ratio of the price of exported wool per quintal in 1997 to that of 2000?

1) 3 : 5   2) 4 : 5

3) 5 : 6   4) 6 : 7

5) None of these

65. As compared 1997, the rate of wool increased by how many dollars in 1998?

1) 500   2) 50

3) 6.50   4) 6

5) None of these

Directions (Q.66 – 70): Study the table carefully to answer the following questions.

Company	1999		2000		2001		2002		2003		2004	
	M	%	M	%	M	%	M	%	M	%	M	%
A	18	92	20	85	22	79	30	78	28	79	23	94
B	28	86	12	86	16	68	24	80	25	90	28	68
C	16	75	16	93	24	84	26	82	26	80	30	82
D	12	78	14	90	24	82	20	84	27	75	32	77
E	14	90	18	81	16	91	22	96	18	75	30	76
F	13	88	17	91	20	86	26	92	19	84	25	85

Number of Units (in millions) manufactured by six companies and Percentage of Units Sold over the Years

M - Number of units manufactured in millions; % - percentage of units sold

66. What is the approximate percentage increase in the number of units sold by Company F in the year 2000 from the previous year?

    1) 7   2) 35   3) 42   4) 24

    5) 3

67. Which company has manufactured the least number of units over all the years together?

    1) E   2) B

    3) F   4) D

    5) None of these

68. What is the number of units sold by Company D in the year 2003?

    1) 2025000   2) 202500000

    3) 20250000   4) 202500

    5) None of these

69. What is the number of units not sold by Company B in the years 1999, 2002 and 2004 together?

    1) 176800000   2) 1768000

    3) 176800   4) 17680000

    5) None of these

70. Which Company has sold the maximum number of units in the year 2001?

    1) E   2) F

    3) D   4) C

    5) None of these.

Directions (Q.71 – 75): Study the following table carefully and answer the questions given below.

Number of Students of Different Classes of a School Playing Different Games							
Game Class	XII	XI	X	IX	VIII	VII	VI
Chess	11	12	5	4	2	2	1
Cricket	38	40	12	17	25	18	20
Basket Ball	11	9	7	6	0	0	0
Table Tennis	9	9	21	19	11	9	0
Foot ball	40	27	18	19	12	16	14
Carrom	16	15	8	19	12	16	14
Tennis	8	9	11	5	6	0	0
Badminton	47	39	33	21	19	0	0

71. Approximately what percent of VIII th class students play cricket out of the total students playing Cricket?

1) 13   2) 4   3) 25   4) 15

5) 17

72. What is the respective ratio of XIth and Xth class students playing Football?

1) 1 : 2   2) 2 : 5   3) 2 : 3   4) 3 : 2

5) None of these

73. Which game is the most popular?

1) Badminton   2) Football   3) Carrom   4) Table Tennis

5) Cricket

74. Approximately what per cent of Xth class students play Table Tennis out of the total Xth class students playing different given game?

1) 20   2) 21   3) 27   4) 26

5) 18

75. Which game has number of students from class IX th to XII th in increasing order?

1) Only Basket Ball   2) Only Badminton

3) Chess and Badminton   4) Only Carrom

5) None of these

Directions (Q.76 – 80): What approximate value should come in place of question mark (?) in the following questions?

76. $\frac{1}{5}$ of 7777 + 12%of 1203 = ?

1) 1250   2) 125   3) 1950   4) 1800

5) 1700

77. $32.1 \times 26 - 27 \times 25 = ?$

1) 160   2) 15   3) 250   4) 55

5) 110

78. $\sqrt{3480.9998} = 100.99 - ?$

1) 40   2) 39   3) 52   4) 42

5) 44

79. $2\frac{1}{3} + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} = ?$

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

5) 5

80. $12^3 + (1.2)^2 + (1.02)^1 + (1.002)^0 = ?$

1) 147   2) 1731   3) 1730   4) 1733

5) 148

81. The length of rectangular floor is twice its breadth. If Rs.256 is required to paint the floor at the rate Rs.2 per sq m, then what would be the length of floor?

1) 16 m   2) 8 m   3) 12 m   4) 32 m

5) 20 m

82. Angle 'A' of the quadrilateral ABCD is 26^0 less than angle B. Angle B is twice angle C and angle C is 10^0 more than the angle D. What would be the measure of angle 'A'?

1) 104°   2) 126°   3) 56°   4) 132°

5) 106°

83. A number when subtracted by $\frac{1}{7}$ of itself gives the same value as the sum of all the angles of

a triangle. What is the number?

1) 224   2) 210   3) 140   4) 350

5) 187

84. A man walked at a speed of 4 km/h from point A to B and come back from point B to A at the speed of 6 km/h. What would be the ratio between the time taken by man in walking from point A to B point B to A respectively?

1) 5 : 3   2) 2 : 3   3) 2 : 1   4) 4 : 3

5) 3 : 2

85. In every 30 min the time of a watch increases by 3 min. After setting the correct time at 5 am. What time will the watch show after 6 h?

1) 10 : 54 am   2) 11 : 30 am   3) 11 : 36 am   4) 11 : 42 am

5) 11 : 38 am

86. Twelve men complete a piece of work in 24 days. In how many days can eight men complete the same piece of work?

1) 28   2) 36   3) 48   4) 52

5) None of these

87. Rahul spends 50% of his monthly income on household items, 20% of his monthly income on buying clothes, 5 % of his monthly income on medicines and the remaining amount of Rs.11,250 he saves. What is Rahul's monthly income?

    1) Rs.38,200　　　　2) Rs.34,000　　　　3) Rs.41,600　　　　4) Rs.45,000

    5) None of these

88. The number obtained by interchanging the two digits of a two digit number is lesser than the original number by 54. If the sum of the two digits of the number is 12, then what is the original number?

    1) 28　　　　　　　　　　　　　　2) 39

    3) 82　　　　　　　　　　　　　　4) Can't be determined

    5) None of above

89. At present, Meena is eight times her daughter's age. Eight years from now, the ratio of the ages of Meena and her daughter will be 10 : 3 respectively. What is Meena's present age?

    1) 32 years　　　　　　　　　　　2) 40 years

    3) 36 years　　　　　　　　　　　4) Can't be determined

    5) None of above

90. In how many different ways can 4 boys and 3 girls be arranged in a row such that all boys stand together and all the girls stand together?

    1) 75　　　　　　　2) 576　　　　　　3) 288　　　　　　4) 24

    5) None of these

Directions (Q. 91 – 95): Study the information carefully and answer the questions given below.

In a class of 84 students the boys and girls are in the ratio 5 : 7, respectively. Among the girls 7 can speak Hindi and English. 50% of total students can speak only Hindi. The ratio between the number of students speaking only Hindi and only English is 21 : 16 respectively. The ratio between the number of boys and girls speaking English only is 3 : 5.

91. What is the number of boys who speak both the languages?

    1) 4　　　　　　　2) 5　　　　　　　3) 3　　　　　　　4) 2

    5) None of these

92. What is the number of girls who speak English only?

    1) 12　　　　　2) 20　　　　　3) 22　　　　　4) Can't be determined

    5) None of these

93. What is the ratio between the number of boys and girls respectively who speak Hindi only?

    1) 10 : 11　　　　2) 11 : 10　　　　3) 2 : 5　　　　4) Can't be determined

    5) None of these

94. How many girls can speak Hindi?

    1) 29　　　　　2) 22　　　　　3) 27　　　　　4) 23

    5) None of these

95. What is the ratio between the number of boys and girls respectively who speak English?

    1) 3 : 5　　　　2) 3 : 7　　　　3) 5 : 8　　　　4) 5 : 7

    5) None of these

96. The profit earned after selling an article for Rs. 1754 is the same as loss incurred after selling the article for Rs. 1492. What is the cost price of the article?

1) Rs.1,623   2) Rs.1,523

3) Rs.1,689   4) Rs.1,589

5) None of these

97. A sum of money is divided among A, B, C and D in the ratio of 3 : 4 : 9 : 10 respectively. If the share of C is Rs.2,580 more than the share of B, then what is the total amount of money of A and D together?

1) Rs.5,676   2) Rs.6,192   3) Rs.6,708   4) Rs.7,224

5) None of these

98. In how many different ways can the letters of the word 'OPERATE' be arranged?

1) 5040   2) 720   3) 2520   4) 360

5) None of these

99. The number obtained by interchanging the two digits number is less than the original number by 18. The sum of the two digits of the number is 16. What is the original number?

1) 97   2) 87

3) 79   4) Can't be determined

5) None of these

100. Excluding the stoppages, the speed of a bus is 64 km/h and including the stoppages the speed of the bus is 48 km/h. For how many minutes does the bus stop per hour?

1) 12.5 min   2) 15 min   3) 10 min   4) 18 min

5) None of these

GENERAL AWARENESS

101. The term 'load factor' refers to

1) a charge levied by mutual fund from the unit holders at the time of entry or exit from the mutual fund

2) overall – load on the mutual fund

3) Both of the above

4) charge on staying with fund

5) None of the above

102. For loans and advances a granted by commercial banks to small, Read and Water Transport (SRWTED) operations scheme NABARD provides refinance under Automatic Refinance Facility, subject to the conditions

1) Repayment of loan should not exceed 5 years with moratorium of 6 months

2) Refinance amount is restricted to 15 lakh per borrower

3) The borrower should be from rural area and he should utilize the vehicle mainly for transportation of rural farm and non – farm products and inputs and passengers to/ from marketing centers

4) All of the above

5) None of the above

103. An open ended fund means

1) The fund exists for perpetuity. There is no celling on the amount to be collected or raised

2) Investors are assured of dividends, capital appreciation and safety of their investments

3) a repurchase facility close to Net Asset Value (NAV) makes it better than close ended above

4) All of the above

5) None of the above

104. Lord Krishna Bank Ltd. is a

1) new private sector bank   2) old private sector bank

3) public sector bank   4) regional rural bank

5) None of these

105. Securities and Exchange board of India (SEBI) was constituted by Government of India in 1988 and was accorded statutory power under

1) SEBI Act, 1988

2) SEBI Act, 1992

3) Banking Regulation Act, 1949

4) Negotiable Instruments Act, 1881

5) None of the above

106. Which of the following are operating as life insurers in India?

1) Life Insurance Corporation of India

2) HDFC Standard Life Insurance of India

3) Max New York Life insurance Co. Ltd

4) All of the above

5) None of the above

107. Regional Rural Banks are allowed to pay half percent additional interest on

1) savings accounts   2) current accounts

3) time deposits of less than 3 years   4) (1) and (3)

5) None of the above

108. LIC is required to invest a certain percentage of its funds in government and approved securities. The percentage is

1) 35   2) 50

3) 100   4) No minimum limit is stipulated

5) None of the above

109. Small and relatively new banks with limited network of branches become better placed to compete with established bank by integrating .... in their operations.

1) customer advice   2) customer share

3) advertising agencies   4) Information technology

5) None of these

110. Which of the following is not visible as trend in banking system?

1) Installation of ATMs for banking transactions

2) Telephone banking and debit cards are accepted by customers

3) PC banking is finding wider acceptance

4) Banks are increasing venturing into fee based services

5) None of the above

111. Tier I capital would mean

1) paid up capital

2) statutory reserves and other disclosed free reserves

3) capital reserves representing surplus arising out of sale proceeds of assets

4) All of the above

5) None of the above

112. For launching any new scheme by any MF

1) prior permission of RBI is required

2) prior permission of RBI not required

3) RBI has no control as MF

4) permission from Government of India

5) None of the above

113. What are the benefits of Core Banking Solutions?

1) Benefit of not carrying the cash from one place to another

2) Depositing money anywhere in the country where the bank is present

3) Instant updating of the accounts

4) All of the above

5) None of the above

114. National Housing Bank provides refinance to Scheduled Commercial Banks in respect of direct housing loans known as

1) T100 lakh   2) T 2 lakh   3) T 10 lakh   4) T 5 lakh

5) None of these

115. Credit cards are cards made of plastic material as such they are also known as

1) plastic cards   2) card money

3) plastic cards full of money   4) All of the above

5) None of the above

116. Mutual fund invests the funds collected under the schemes in various capital market instruments except

1) Government and other Trustee Securities

2) Underwriting bill discounting, portfolio/ fund management activities

3) Shares debentures of public limited companies

4) Bonds of public sector undertakings

5) None of the above

117. The instruments of capital market are

1) equity shares, preference shares non – voting equity shares

2) debentures (i.e., convertible, non – convertible, zero – coupon bonds etc.)

3) company fixed deposits

4) units of mutual funds

5) All of the above

118. Capital market is described as market for

1) short term funds   2) medium and long term funds

3) (1) and (2)   4) All of the above

5) None of the above

119. The main objectives of National Housing bank are

1) to promote and develop specialized housing finance institutions for mobilization of resources and extending finance for housing activities

2) to extend refinance facilities to housing finance institutions and to scheduled banks

3) to provide guarantee and underwriting facilities to housing finance institution

4) All of the above

5) None of the above

120. What are the various means of Electronic Payment Systems?

1) Credit card   2) ATM card   3) Debit card   4) Smart card

5) All of the above

121. The WTO set up a panel recently to resolve the dispute between India and which country over imposition of a safeguard import duty on iron and steel products?

1) US   2) Germany   3) France   4) China

5) Japan

122. Which of the following is the capital city of Nigeria?

1) Abuja   2) Lagos   3) Manama   4) Nairobi

5) Kampala

123. Which international organization celebrated Diwali for the first time?

1) HELCOM   2) WB   3) UN   4) IMF

5) BIE

124. The United Nations Chief Antonio Guterres has appointed David Beasley to head the World Food Programme (WFP) which is headquartered at

1) New York   2) London   3) Paris   4) Geneva

5) Rome

125. .... won the men's singles title of the 2017 Syed Modi Grand Prix Gold badminton tournament in Lucknow recently.

1) Sai Praneeth   2) Sameer Verma

3) Parupalli Kashyap   4) Ajay Jayaram

5) Tommy Sugiarto

126. The International Hockey Federation (FIH) recently confirmed Kalinga Stadium as the host of the Men's Hockey World League Final in December 2017. The stadium is situated in

1) Patna   2) Lucknow   3) Bhubaneswar   4) Bhopal

5) Chandigarh

127. What is the full form of NCTF?

1) New Council on Trade Facilitation   2) National Council on Trade Facilitation

3) National Committee on Trade Facilitation   4) National Committee of Foreign Trade

5) Tamil Nadu

128. CRISIL has downgraded ratings for which of the following bank?

1) PNB   2) UCO Bank

3) Allahabad Bank   4) Central Bank of India

5) None

129. The BRICS-backed New Development Bank (NDB) has invested in seven projects totalling $1.5 bn in about two years of its operation. The present President of NDB is

1) KV Kamath   2) Aditya Puri   3) DJ Pandian   4) Jin Liqun

5) None of these

130. Rashtriya Ekta Diwas is celebrated on.......

1) October 1st   2) October 31st

3) October 20th   4) October 21st

5) October 15th

131. 'Inclusive Cities, Shared Development' is the theme of ....

1) World Environment Day   2) UN Day

3) World Refugees Day   4) World Cities Day

5) None of the above

132. The Supreme Court has appointed a four-member committee to run the affairs of the Board of Control for Cricket in India (BCCI) which will be led by

1) Amitabh Chaudhary   2) Vikram Lamaye

3) Ramachandra Guha   4) Diana Edulji

5) Vinod Rai

133. .... is the longest-running major north-south National Highway in India which starts from Srinagar and terminates in Kanyakumari.

1) National Highway 24   2) National Highway 47

3) National Highway 44   4) National Highway 28

5) National Highway 82

134. The Maitree Express train runs between which of the following two cities?

1) Delhi and Lahore   2) Delhi and Kathmandu

3) Dhaka and Kolkata   4) Agartala and Mandalay

5) None of these

135. India's first 'Design Yatra' was launched by the institute of Indian interior designer (111D) in which state?

1) Maharashtra 2) Odisha 3) Kerala 4) Telangana

5) Andhra Pradesh

136. The public sector Canara Bank has partnered with BSNL to upgrade bandwidth at all its branches. Canara Bank is headquartered at

1) Chennai 2) Kolkata 3) Hyderabad 4) Bengaluru

5) Mumbai

137. For the fiscal 2017 − 18 the Union Budget has announced a target of .... for loans under Pradhan Mantri Mudra Yojana.

1) Rs.1.85 lakh cr 2) Rs.1.98 lakh cr 3) Rs.2.44 lakh cr 4) Rs.2.12 lakh cr

5) Rs.3.14 lakh cr

138. Accordingly to the 2011 census .... of the disabled population attended educational institutions.

1) $\dfrac{2}{3}$ 2) $\dfrac{1}{4}$ 3) $\dfrac{1}{3}$ 4) $\dfrac{1}{5}$

5) $\dfrac{1}{8}$

139. The RBI is revised PCA framework to cut risk for banks with weak balance sheets will be effective from April 1st, 2017. Here, the term PCA stands for

1) Prior Corrective Action 2) Preferred Corrective Action

3) Preemptive Corrective Action 4) Prompt Corrective Action

5) None of these

140. Which of the following games has been removed from the programme list of the 2018 Asian Games to be held in Jakarta and Palembang?

1) Surfing 2) Sambo 3) Skateboarding 4) Cricket

5) All of these

141. A customer can carry out banking transactions through ATM

1) only during working hours of the bank, where the customer maintains the account

2) only from 06 : 00 am to 10 : 00 pm on weekdays and from 10 : 00 am to 2 : 00 pm on Sundays and holidays

3) only from 10:00 am to 5 : 00 pm

4) round the clock (i.e., 24 h a day and 365 days in a year)

5) None of the above

142. Bank assurance helps the bank to build synergies between insurance business and distribution of insurance products, because

1) customers of bank have more trust in bank / branch than a private agent

2) banks have wide network of branches

3) bank branches have ready customers requiring financial products / services

4) All of the above

5) None of the above

143. Discount and Finance House of India Ltd.

1) participates in call and short notice money market and interbank term deposit market both as borrower and lender

2) deals in Government of India dated securities from April 1992

3) (1) and (2)

4) deals in stock market

5) None of the above

144. Export-Import Bank of India has been set up for the purposes of

1) functioning as a specialized institution for providing credits to foreign trade on international competitive terms

2) offering advisory services to exporters

3) providing refinance facilities in regard to export finance extended by commercial banks and other financial institutions

4) All of the above

5) None of the above

145. A close-ended fund means

1) the corpus is of fixed size with a definite redemption period

2) listing on stock exchanges provides easy liquidity

3) the market price is always below the Net Asset Value

4) All of the above

5) None of the above

146. Under the provisions of Section 35 (b) (ii) of the Banking Regulation Act, 1949, inspection of branches of Indian banks situated abroad is to be carried out by

1) Reserve Bank of India

2) Exim Bank

3) Ministry of External Affairs

4) All of the above

5) None of the above

147. Statutory Liquidity Ratio means

1) the maximum percentage of demand and time liabilities up to which bank can extend the advances.

2) maintenance of liquid assets by banks in the form of cash, gold and unencumbered approved securities equal to not less the 25% of their total demand and time deposit liabilities under the provisions of Section 24 of Banking Regulation Act

3) to keep liquid cash

4) All of the above

5) None of the above

148. A new private sector bank

   1) will be subject to the directives, instructions, guidelines and advices given by the Reserve Bank of India

   2) will be governed by the provisions of RBI Act, 1934, Banking Regulation Act, 1949 and other relevant statutes

   3) would be governed by existing branch licensing policy whereby banks could open branches including at urban/metro centers without prior approval of RBI once capital adequacy and prudential accounting norms are satisfied

   4) All of the above

   5) None of the above

149. What are the major activities of NABARD?

   1) It provides refinance to State Cooperative Banks. Scheduled Commercial Banks and Regional Rural Banks, etc

   2) It coordinates the activities of different agencies in the field of agriculture and rural credit

   3) It improves absorptive capacity of credit delivery system

   4) None of the above

   5) All of the above

150. Merchant Banking connects

   1) services rendered by Banks for merchants and traders

   2) catering to the needs of corporate customers for raising finance

   3) special scheme for sanction of term loan to merchants

   4) All of the above

   5) None of the above

ENGLISH LANGUAGE

Directions (Q.151 – 158): Read the following passage carefully and answer the questions given below it.

Capitalism is a great slave, but a pathetic master. This truth unfortunately gets lost in our chase for that elusive dream - especially in the West, the land that has been marketed as the land of the dreams - the great Western dream. It's the dream of being independent masters of our lives, of making big bucks and of being happy - even if that happiness is being bought by money which all of them chase out there. No doubt, the West on its part has been fairly successful in creating material comforts aplenty. It has improved the living standard of its average citizen.

However, it has been achieved as a result of more than 200 years of unbridled growth and exploitation and that is what has made the rest of the world mindlessly chase Westernism, not necessarily happiness or an ideal form of society.

All because the shop window looks very impressive and it has been marketed very well.

But a deep look inside the shop tells a different tale. A different world lies behind, a world that is not quite visible to the starry eyed millions - for whom the Western way of life seems to be the ultimate dream.

Thus, we have Indians dreaming to become or to get married to an NRI and Indian middle class fathers dreaming of their sons reaching the Bay area and landing tech jobs, unmindful of the second class life they end up lending in the West. What goes unseen and almost unheard is that the West also happens to be the land that is right amongst the top in terms of the number of divorces per thousand, the number of single parent

families per thousand, the number of old people in old are homes, the number of suicides, homicides and of course, the number of college / school shootouts.

And why not! After all, such societies are constantly driven towards higher profits and materialism. Expectedly, this materialism comes at a cost that the world is paying today. This is the reason why we have millions dying of curable diseases in Africa and other underdeveloped countries, while the rich grow richer. Their growth will be reduced, if they were to start thinking of the poor. So, what do they do to justify their greed for more? They most shrewdly propagate and market a ridiculously primitive law of the jungle for our 21st century civilization, the 'Law of Survival of the Fittest!' The interesting thing about material things is that they only think of happiness; how much happiness is always momentary in mature. Ergo, at this future, you feel you are the happiest person in the world, after buying your new car or flat screen TV just a few days later, these are the very possessions that cease to make you happy.

While you chase the bigger car and spend that extra bit of the wealth, you intercept someone's share of the daily bread and also sacrifice those who have the maximum power to make you happy - family emotions and love.

Prolonged abstinence in feeling emotions finally destroys bliss and you don't even realize when you've become a dry - eyed cripple ...... and then you land up in a sermon workshop to find out the real meaning of life - or whatever these workshops are capable of explaining.

The truth is that such workshops are also driven by merchants who cash in on the dejected state of the people, a state created by their own fictional dreams. But by then it's really too late.

By then you have made profits out of arms and engineered wars to keep that industry alive. You're sold guns across country at supermarkets and trade more profits. You've lobbied that guns should be made accessible to the common man and all for the sake of profits. This makes you realize one day they are your own children who are in their one of the fire against the school goer, one who open fire at his schoolmates.

This is the society that finally creates an emotionless monster, who gets satisfaction in killing innocent adults and children alike for no cause, no reason and for none, but himself. It is the utter destruction of spiritualism and the total focus on endless self - gratification. Where so many single parent families and divorced exist, it is impossible to bring up children or influence the killers, any better.

151. Who does the author hold responsible for the shooting spree in schools and colleges?

    A. Lack of love and emotion in the society in general.

    B. Increased focus on self - gratification even when it comes at the cost of innocent lives.

    C. Deteriorating social structure leading to break up of families resulting in lack of moral development in children.

    1) Only A   2) Only C

    3) B and C   4) All of these

    5) None of these

152. Why does the author refer to the law of survival of the fittest as ridiculous?

    1) This law is primitive and does not hold good for developed nations

    2) The law is often used to justify the accumulation of wealth by a selected few

    3) People from developing countries use it to rationalize their immigration to the Western countries

    4) It does not lead to any material profits and material wealth

    5) None of these

153. According to the passage, which of the following is a reason for poverty and hunger in underdeveloped countries?

A. Mindlessly chasing the Western way of living.

B. They have fallen prey to the ides of happiness through material comforts rather than live and emotional bond.

C. They do not have marketing techniques as good as the Western countries.

1) Only B   2) Only C   3) Only A   4) B and C

5) Not mentioned in the passage

154. Why do the 'starry eyed millions' harbor a wish to become an NRI?

A. They are driven towards higher profits and materialism.

B. They appreciate the Western way of life as it appears to them.

C. They have become emotionless and have lost any attachment to the motherland.

1) Only A   2) Only B   3) A and B   4) Only C

5) All of these

155. Why does author disregard the Western way of living even though an average citizen in the West enjoys better living standards?

1) Many Indians want to ape their lifestyle leading to a cultural dilution of their own traditions

2) The West has failed to market their lifestyle in an appropriate way

3) According to him the law of 'survival of the fittest' is now obsolete

4) If only looks forward to material comfort rather than happiness within

5) None of the above

156. What does the author mean by 'intercepting someone's share of daily bread?

1) Hindering the process of marketing in underdeveloped countries by the developed countries

2) Denying material comfort to the Western world

3) Affecting the social life of those working towards material comforts only

4) Excess of wealth in Western world while people in poorer nations struggle for survival

5) None of the above

157. What does the author mean by 'shop window of the West' when suggests to look inside the shop?

A. The sprawling supermarkets have been making profits out of inhuman activities.

B. To look closely at the existing societal structure rather than superficially appreciating the delusive dazzle.

C. To study their marketing techniques closely.

1) Only A   2) Only B   3) A and B   4) B and C

5) Only C

158. The author's main objective in writing the passage is

1) to explain that consumerist societies have their own draws backs which are overlooked by those who are blinded by its material glare

2) to explain how too many material comforts have improved the living standard of common man in the West

3) that young children should not be given access to guns and other ammunitions

4) all NRIs are leading unmindful, second class lives abroad

5) None of the above

Directions (Q.159 – 165): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (5) i.e., 'No error'. (Ignore the errors of punctuation, if any.)

159. The revised government's (1)/ guidelines have reduced (2)/ the number of mergers (3)/ taking place among banks. (4)/ No error (5).

160. I do not know (1)/ who of the (2)/ new trainees should (3)/ be confirmed. (4)/ No error (5).

161. To promote India as (1)/ a tourist destination (2)/ the government has organized (3)/ many cultural programmes. (4)/ No error (5).

162. Banks in India (1)/ cannot open ATMs (2)/ except obtaining (3)/ approval from RBI. (4)/ No error (5).

163. Today the success of (1)/ companies depends on the (2)/ quality of their products and (3)/ efficient managing staff. (4)/ No error (5).

164. Ashok has managed to (1)/ achieved his sales targets (2)/ for the quarter very easily (3)/ than we expected. (4)/ No error (5).

165. He did not grant (1)/ their request for a loan (2)/ although it would (3)/ displease his boss. (4)/ No error (5).

Directions (Q.166 – 170): Rearrange the following sentences to convert them into a meaningful paragraph and answer the questions given below them.

A. Mohit and Rushali had gone on a holiday tour in their own car.

B. One day their car was passing by a small village.

C. Rushali was driving the car on that day.

D. Some boys playing on the road saw her driving and got frightened.

E. But one boy saw Mohit sitting next to her and assured others not to worry.

166. Which will be the THIRD sentence?

   1) A   2) B   3) C   4) D

   5) E

167. Which will be the FIFTH (LAST) sentence?

   1) A   2) B   3) C   4) D

   5) E

168. Which will be the FIRST sentence?

   1) A   2) B   3) C   4) D

   5) E

169. Which will be the SECOND sentence?

   1) A   2) B   3) C   4) D

   5) E

170. Which will be the FOURTH sentence?

   1) A   2) B   3) C   4) D

   5) E

Directions (Q.171 – 175): For each statement, there are three different sentences given below it. Pick out the sentence / sentences that most appropriately conveys / convey the meaning of the sentence. Choose the alternative which represents the correct sentence or combination of sentences.

171. All our efforts were wasted due to the negligence of the clients.

    I. The negligence of the clients was responsible for making our efforts futile.

    II. Our efforts would have been fruitful had there been no negligence on the part of the clients.

    III. The negligence of the clients saved all our efforts from being wasted.

    1) Only I   2) Only II   3) I and II   4) II and III

    5) All of these

172. Who, do you think will be able to handle the work effectively?

    I. In your opinion, there is none who can handle the work effectively.

    II. Who in your opinion can handle the work effectively?

    III. Can you name the person who, as per your assessment can handle the work effectively?

    1) Only I   2) Only II   3) Only III   4) I and II

    5) II and III

173. I could not observe his unwillingness while donating to charity.

    I. I observed his willingness to donate to charity.

    II. I failed to detect his reluctance, if there was any, while he was donating to charity.

    III. I noticed his enthusiasm while donating to charity.

    1) Only I   2) Only II   3) Only III

    4) I and II   5) II and III

174. If you hesitate to participate freely and vigrorously, your performance will be adversely affected.

    I. Participate freely and vigorously if you desire to demonstrate your full performance.

    II. Do not participate with reservations if you want your participation to be affected adversely.

    III. Your free and vigorous participation is most likely to affect your performance adversely.

    1) Only I   2) Only II   3) Only III   4) All of these

    5) None of these

175. How much you speak is less important than how well you speak.

    I. The quality of your talk is less important than the quantum of your talk.

    II. How good you speak is as important as how much you speak.

    III. The quality of your talk as also the quantum are equally important.

    1) I and II   2) II and III   3) Only I   4) All of these

    5) None of these

176. .... is venison or any other meat that is sliced, dried, pounded and made into cakes; used by explorers and others when out of reach of fresh meat.

    1) Peat   2) Permian   3) Perch   4) Pemmican

    5) None of these

177. .... is a sport in which people wearing parachutes are towed behind the speed boat so that they can reach enough speed to ascend.

1) Paragliding   2) Parachuting

3) Paratowing   4) Parascending

5) None of these

178. Identify the odd pair.

1) Adoke : Donga   2) Dacha : Grange

3) Rectory : Vicarage   4) Matador : Quoits

5) None of these

179. 'Actor' is to 'Thespian' as 'Harlequin' is to

1) Conjuror   2) Hypnotist   3) Comedian   4) Buskar

5) None of these

180. 'Venom' is to 'Toxin' as 'Venial' is to

1) Venal   2) Maleficence   3) Dislike   4) Gall

5) None of these

Directions (Q. 181 – 185): Rearrange the following six sentences A, B, C, D, E and F in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

A. However this is too narrow a definition for India.

B. Most often economic reforms refer to opening the economy in terms of trade and investment and tax cuts.

C. The sooner action is initiated the faster India will be able to attain its targeted growth rate.

D. This is a standard definition of economic reforms and may be applicable to most countries.

E. Economic reforms in India have to extend to reforming the public sector, transport, power, agriculture and infrastructure among other sectors.

F. To identify these sectors and the necessary reforms required, there is a need for new thought leadership.

181. Which of the following should be the FIRST sentence after rearrangement?

1) A   2) B   3) C   4) D

5) E

182. Which of the following should be the THIRD sentence after rearrangement?

1) A   2) B   3) C   4) D

5) F

183. Which of the following should be the SECOND sentence after rearrangement?

1) A   2) B   3) C   4) D

5) E

184. Which of the following should be the SIXTH (LAST) sentence after rearrangement?

1) A   2) B   3) C   4) D

5) E

185. Which of the following should be the FIFTH sentence after rearrangement?

    1) B   2) C   3) D   4) E

    5) F

Directions (Q.186 – 195): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

        Do women **(186)** leadership differently than men do? And so, will feminine leadership **(187)** where **(188)** leadership does not? A recent study suggests somewhat paradoxically that female managers **(189)** their male **(190)** even when the personal characteristics of both are very **(191)**. Of the two schools of thought, the structuralist theory argues that men and women do not receive the same treatment in the workplace and that **(192)** bias would stamp out the observed **(193)**. In contrast, the socialization theory contends that men and women experience work differently because men see work as more **(194)** to their lives. These **(195)** explanations apart, today business appears to be undergoing a feminization leadership.

186.   1) exercise   2) undertake   3) authorise   4) empower

    5) tolerate

187.   1) affect   2) succeed   3) compete   4) progress

    5) dominate

188.   1) traditional   2) charismatic   3) masculine   4) benevolent

    5) authoritarian

189.   1) outlive   2) outcast

    3) outwork   4) outstand

    5) outdo

190.   1) employees   2) subordinates

    3) managers   4) counterparts

    5) superiors

191.   1) minimal   2) distinct

    3) unique   4) similar

    5) constant

192.   1) employment   2) culture

    3) gender   4) class

    5) category

193.   1) variations   2) discriminations

    3) resemblances   4) distortions

    5) equalities

194.   1) needy   2) desperate   3) preliminary   4) trivial

    5) central

195.   1) contradictory   2) corresponding

    3) discriminating   4) analogical

    5) identical

Directions (Q.196 – 200): Which of the phrases (1), (2), (3) and (4) given below should replace the phrase given in bold in the following sentence to make the sentence grammatically meaningful and correct? If the sentence is correct as it is and no correction is required, mark (5) as the answer.

196. Teaching farmers a few water harvesting techniques will ensure that farmers **lack adequate** water for irrigation.

1) do not lack adequate
2) do not have adequate
3) lacking adequately
4) without adequate
5) No correction required

197. Awards are important because **they recognize and reward** individuals who have had a positive impact on society.

1) of recognition and reward
2) of recognizing and rewarding
3) by recognizing rewards
4) it recognizes and rewards
5) No correction required

198. Very often we react to a crisis **by pretence that** it doesn't exist.

1) pretending when
2) to pretend that
3) inpretence
4) by pretending that
5) No correction required

199. The report stated **that countries** women are educated have higher economic growth rates.

1) in countries
2) that countries where
3) there are countries that
4) countries that
5) No correction required

200. Economists have predicted that Asia's current economic problems are **likely to be temporarily**.

1) likely temporary
2) like being temporary
3) likely to be temporary
4) temporarily likely
5) No correction required

KEY

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

EXPLANATIONS

1. From I: We get •(+) Amrendra's father

    • Amrendra

    • Rishu (+)

    Thus, Rishu is either nephew or son of Amrendra. Still we need more information to conclude a specific relation between Rishu and Amrendra. Hence, statement I alone is not sufficient.

★   From II: The information does not give any such clue to reach answer. Hence, statement II alone is not sufficient. Even using the statements I and II together we can't obtain the number of brothers of Amrendra. Hence, both the statements I and II together are not sufficient.

2. We do not have information about the positive of the Sun, i.e., whether it is in the East or in the West. Also, the position of the person gives no clue about the direction of the moving train.

3. From I: The symbols >, ★, = and • have been used with some other symbols while coding STRIP, MAPRO and ASTER, Note that these words do not consist of the letter 'X'. obviously, the code for 'X' is the symbol'.

★   From II: The four letters M, I, E and R are present in both the words MIXER and MISER and the four symbols which are common in the codes of both the words are >, ★, = and •.

    Thus, we can conclude that code for the letter is the symbol'.

4. Statement I alone is not sufficient because the statement says only about ratios of different categories. We need absolute figure of at least one of the categories. Statement II fulfils our requirement. Hence, both the statements I and II together are sufficient. We do not need its details to answer the question. But for your convenience the details are as follows. Suppose number of those statements who failed in all the three tests is X. Then, we get the following picture

    A: who failed in test P only.

    B: who failed in test Q only.

    C: who failed in test R only.

    D: who failed in test P and Q.

    E: who failed in test P and R.

    F: who failed in test R and Q.

    G: who failed in all the three tests.

    Since, half of the students passed in all the three tests, this implies 700 students failed in at least one tests, i.e., A + B + C + D + E + F + G = 700

    A = B = C = D = E = F = G = 100

    Number of those students who passed in at least two tests = sum of the numbers who failed in only one test and the number of students who passed in all the three tests. Hence, required number of such students

    = A + B + C + 700   = 300 + 700 = 1000

5. From I We get that India won the matches first, second, third and the fourth. From II We get that India won the matches eighth, ninth and tenth.

★   But these two statements even together do not tell about the result of the matches fifth, sixth and the seventh.

(Q.6 – 10): From clue (III), we can make our task easy. If A is the grandfather of F, it means F is a person of the lowest generation. Again, since persons of same generation sat opposite each other. D, who sat adjacent to A, is not from the generation of A. But D is the father of C. This implies D is from the middle generation and C from the lowest generation. Again, since D is not the husband of E, A is the husband of E and D is the husband of B.

★ Thus, we get the following family tree: It is given in clue I that there are three females in the family. This implies that either C or F is a female. Now, let us fix their seating arrangement. From clue III, we get that A sat on the immediate right of D. Again, since B and D are of the same generation, this implies that B sat opposite D. Similarly, E sat opposite A. Obviously C and F sat opposite each other. Thus, we get the following arrangement. Again, from clue III, we get that F is not the youngest. This implies C is the youngest (because only C and F are from the lowest generation). Now, from clue I, we get that the youngest one is a male. This implies that C is a male and F is a female. Now, let us arrange the persons in the descending order, of their ages. Since, the oldest member is a female, this implies E is older than A. Again, from clue II, we get that B occupies the third position. This implies B is older than D and since C is the youngest. Hence, F is older than C.

★ Thus, the order of the persons according to descending order of age is as follows:

E > A > B > D > F > C

★ Thus, we can conclude that B sat on the immediate right of F (because it is given that B sat on the immediate right of a female) and C on immediate left of D.

6. The mother of F, the only person who sat between E and F.

7. Related data not available. Hence, the option (4) is correct.

8. C and B are adjacent to E. hence, the option (3) is correct.

9. The correct order is: A – F – B – E – C – D.

10. All are true.

(Q.11 – 15):

Persons	Sex	Vehicles	Destination
P	Male	Honda City	Hyderabad
Q	M/F	Honda City	Hyderabad
R	Male	Ford Ikon	Chennai
S	Female	Ford Ikon	Chennai
T	Male	Swift D'zire	Delhi
V	Male	Ford Ikon	Chennai
W	M/F	Honda City	Hyderabad
Z	Female	Swift D'zire	Delhi

11. R, S and V are travelling to Chennai in Car Ford Ikon.

12. Four members are travelling in no car.

13. S and Z are female members, The third female member is either P, Q or W

14. P and Q are travelling with W

15. P, Q and W are travelling in Honda City.

16. Input: Star 62 Rose 72 59 Tiger Gun 42

Step I: 42 62 Rose 72 59 Tiger Gun Star

Step II: 42 Tiger Rose 72 59 62 Gun Star

Step III: 42 Tiger 59 72 Rose 62 Gun Star

Step IV: 42 Tiger 59 Star Rose 62 Gun 72

Step V: 42 Tiger 59 Star 62 Rose Gun 72

Step VI: 42 Tiger 59 Star 62 Rose 72 Gun

For the final output only 6 steps are required.

17. Input: Lemon 43 56 37 King 21 Network Master

Step I: 21 43 56 37 King Lemon Network Master

Step II: 21 Network 56 37 King Lemon 43 Master

Step III: 21 Network 37 56 King Lemon 43 Master

Step IV: 21 Network 37 Master King Lemon 43 56

Step V: 21 Network 37 Master 43 Lemon King 56

Step VI: 21 Network 37 Master 43 Lemon 56 King

No such given step is there so given step is not possible from the given input.

18. Input: "52 June March 42 April September 92 November 62 82" after the steps, step VI will be "42 September 52 November 62 March 92 June April 82"

19. Step III: 21 Force 32 Defense Cargo 40 Air 36

Step IV: 21 Force 32 Defense 36 40 Air Cargo

Step V: 21 Force 32 Defense 36 Cargo Air 40

Step VI: 21 Force 32 Defense 36 Cargo 40 Air

Step VI: is the last step of the machine.

20. Input cannot be find out from any of the step. So, it is not possible to get input.

21. Only courses of actions I and II are essential to remove the block traffic movement.

22. In the given statement only course of action I is essential because if the Government provide Food grains to the poor people, then they will send their children to school.

23. The Government should direct the bank to refrain from retrenching its employees.

24. For the given statement, only courses of action II and III are necessary.

25. In order to remove, the problem of water-crisis only courses of action II and III are necessary.

26. 5' 10" had the height of the unknown hijacker. Hence, option (2) is correct.

27. Mistri Zahur Ibrahim was expert in the field of Aviation

28. Shakir had the expertise in planning.

29. Shaid Akhtar Sayed was tallest among the hijackers.

30. 6' 1" was the height of Mistri Zahur Ibrahim. Hence, option (5) is correct.

31. Only assumption I is implicit in the statement. The instruction was issued assuming that people tend to be little shy and less objective while writing their selfappraisal report if not so instructed.

★   Assumption II is not properly related with the statement.

32. Both assumptions I and II are implicit in the statement. If employees do not learn by observing the behaviour of their bosses the statement would not have made. Again, it has been highlighted that

bosses should not be considered as merely sources of reward and punishments. It implies that bosses are generally considered as sources of reward and punishment. Hence, assumption II is implicit.

33. Both assumptions I and II are implicit in the statement. If customers do not accept or follow the suggestion of the shopkeeper, the latter has not made such a statement. Again, the shopkeeper rendered his view assuming that customer question. will consider his view. Therefore, assumption I is implicit. The statement clearly indicates that international technology ensures better quality.

34. Both assumptions I and II are implicit in the statement. The statement implies clearly that length of service or seniority does not alone reflect merit of an employee. Notice the use of word alone in the assumption. If it is not possible to measure the merit of an employee why such statement has been made.

35. Only assumption his implicit in the statement. Notice, the use of word always in the statement and assumption II. The statement does not imply that the written examination is good mainly for mediocre students. The statement implies that sometimes highly brilliant and Industrious student also do not perform well in the written examination for one reason or another.

(Q.36 – 38):

    ek la ki $\longrightarrow$ don't touch flowers ...(i)

    ra ku $\longrightarrow$ respect teachers ...(ii)

    ek ra le $\longrightarrow$ don't hurt teachers ...(iii)

    From (i) and (ii), ek $\longrightarrow$ don't ...(iv)

    From (ii) and (iii), ra $\longrightarrow$ teachers ...(v)

37. Related data not sufficient.

38. From (i) and (iv), touch flowers $\longrightarrow$ la ki combining this with (v), we get the required 'ki la ra'

(Q.39 – 40): 781 $\longrightarrow$ rose is red

        276 $\longrightarrow$ old is gold

        698 $\longrightarrow$ old looks red

        8 $\longrightarrow$ red

        1 $\longrightarrow$ rose

39. Code for 'is' is 7.

40. Code for 'rose' is 1.

41. Statement (b) + conversation of statement (a) gives the conclusion "No dogs are rats" [∴ A + E = E]. Hence, conclusion I follows (by implication).

★ "No dogs are rats" → on conversion → "No rats are dogs." Hence, conclusion IV follows.

★ Again, conversion of statement (b) + statement (c) gives conclusion II [I + A = I].

★ Again conclusion + statement (c)gives conclusion III [E + A = O*], Hence, all follow.

42. Only IV and either I or III follow, Statement (c) + statement (b) gives conclusion "All dogs are elephants" [A + A = A] → On conversion → "Some elephants are dogs". Hence, conclusions I and III do not follow. But these two conclusions make a complementary pair. Hence, either conclusion I or III follows.

★ Again, "All dogs are elephants," + "No elephants are rats [statement (a)] given conclusion "No dogs are rats,"[A + E = E]. Hence, conclusion IV follows.

43. Statement (a) + statement (b) gives the conclusion "No books are copies" [A + E = E] → "Some books are not copies." Hence, conclusion I follows.

★ Again, conversion of "No books are copies," gives "No copies are books" → "Some copies are not books". Hence, conclusion II follows.

★ Again "No books are copies," + statement (c) gives conclusion III [E + A = O*] but not conclusion IV.

44. Statement (c) + statement (b) gives conclusion II [A + E = E]. Again, "No duster are books." + statement (a) gives conclusion III [E + A = O*]. But, conclusion I and IV do not follow. However, these two conclusions make a complementary pair. Hence, either conclusion I or IV follows.

45. Conversation of Statement (b) + statement (a) gives conclusion "Some pens are pencils," [I + A = I]. Hence, conclusion III does not follow.

★ Again, statement (c) + conversion of statement (b) gives conclusion "Some books are not pins." Hence, conclusion I does not follow.

★ Again, statement (c) + "Some pens are pencils" gives the conclusion "Some pencils are not pins." [E + I = O*]. Hence, conclusion II does not follow.

★ Conclusion IV can't be deduced from statement (b). Hence, conclusion IV does not follow. Thus, no conclusion (among the given conclusions) follows.

46. Option (3) may be a possible fallout of the given situation.

47. Option (3) may be a possible fallout of the given situation.

48. The district authority sent a police team to nab the culprits. It shows that the Government is committed to provide protection to travelers across the country.

49. All the three statements are probable causes of drop in sales of four wheelers during the past six months.

50. All the three statements can be effective steps to reverse the trend.

51. The series is:

$13 \times 3 - 4 = 35;$ $35 \times 3 - 4 = 101$

101 $\times 3 - 4 = 299;$ $299 \times 3 - 4 = 893$

$893 \times 3 - 4 = 2675$

52. Series is square of prime number ≥ 7.

53. $9 + 17 = 26;$ $17 + 26 = 43$

$26 + 43 = 69;$ $43 + 69 = \mathbf{112}$

$69 + 112 = 181;$ $112 + 181 = 293$

$181 + 293 = 474;$ $293 + 474 = 767$

54. $8 \times 3 + (2 \times 3) = 30;$ $30 \times 4 + (3 \times 4) = 132$

$132 \times 5 + (4 \times 5) = \mathbf{680}$

$680 \times 6 + (5 \times 6) = 4110$

$4110 \times 7 + (6 \times 7) = 28812$

$28812 \times 8 + (7 \times 8) = 230552$

55. The series is combination of two series

13 + 7 = 20	16 + 6 = 22
20 + 14 = 34	22 + 12 = **34**
34 + 21 = 55	34 + 18 = 52
55 + 28 = 83	52 + 24 = 76

56. From statement I, If the annual income of boss be Rs. x, then Mr. Krishna murthy's annual income = 70% of x. But we do not know the value of x. Hence, this statement is not sufficient.

From statement II, Initial income = Rs.12,000

Percentage increase = 10% per month

Time = 12 months

∴ Income in May = Rs.12,000 + 10% of 12000

$\qquad$ = Rs.(12,000 + 1,200) = Rs.13,200

Similarly, the income for other months can be calculated.

57. From statement I, If the radius of the circular field be r m, then $2\pi r = x$

This relation gives us the value of radius.

∴ Area = π × (Radius)2

Hence, statement I alone is sufficient to answer the question,

From statement II,

From statement II, ∴ Area $= \pi \times \left(\dfrac{\text{Diameter}}{2}\right)^2$

Hence, statement II alone is also sufficient to answer the question.

58. Let the speed of boat in still water be x km/h and that of current be y km/h.

∴ Rate upstream = (x − y) km/h

Rate downstream = (x + y) km/h

From statement I, $x + y = \dfrac{35}{5}$

∴ x + y = 7km/h .....(i)

From statement II, $x - y = \dfrac{35}{7}$

∴ x − y = 5 km/h ....(ii)

From combined statements I and II, we can get the required answer.

59. From statement I, Let the number of boys and girls be 5x and 6x, respectively.

From statement II, 6x − 5x = 7 ⟹ x = 7

∴ 5x = 35 and 6x = 42

Clearly, both statements are required to answer the question.

60. From statement I, SP = Rs.1740

Profit percent = 20%

$$\therefore\ CP\ =\ \frac{100 \times 1740}{120}\ =\ Rs.1450$$

$\therefore$ Profit = Rs.(1740 − 1450) = Rs.290

Information in statement II is not required.

Hence, statement I alone is sufficient to answer the question.

61. The earned foreign exchange in different years

= (39 + 39 + 45 + 52 + 50) thousand dollars

= T (225000 × 31.25) = T 7031250

= T 700000 (approx.)

62. The total export of wool

= (65 + 60 + 68 + 75 + 70) quintals

= 338 quintals

Wool exported in 1999 = 68 quintals

$\therefore$ Required percentage = $\left(\dfrac{68}{338} \times 100\right)$

= 20% (approx.)

63. Price of wool per quintal in different years was as follows,

In 1997 = $\left(\dfrac{39000}{65}\right)$ dollars = 600 dollars

In 1998 = $\left(\dfrac{39000}{65}\right)$ dollars = 650 dollars

In 1999 = $\left(\dfrac{45000}{68}\right)$ dollars = \$662 (approx.)

In 2000 = $\left(\dfrac{52000}{75}\right)$ dollars

= 693 dollars (approx.)

In 2001 = $\left(\dfrac{50000}{70}\right)$ dollars

= 714 dollars (approx.)

It is clear that the price per quintal was maximum in the year 2001

64. The ratio of the price of exported wool per quintal in 1997 to that of 2001 is

600 : 693 = 200 : 231

65. Rate of wool in 1997 = 600 dollars per quintal

Rate of wool in 1998 = 650 dollars per quintal

Hence, the rate of wool increased by 50 dollars (per quintal).

66. $R\ =\ \dfrac{12000 \times 100}{40000 \times 3}\ \left[R = \dfrac{SI \times 100}{P \times T}\right] = 10\%$

$$CI = P\left[\left(1 + \frac{r}{100}\right)^2 - 1\right] = 40000\left[\left(1 + \frac{10}{100}\right)^3 - 1\right]$$

$$= 40000\left[\left(\frac{11}{10}\right)^3 - 1\right] = 40000\left[\frac{1331 - 1000}{1000}\right]$$

$$= 40000\left[\frac{331}{1000}\right] = 40 \times 331 = Rs.13,240$$

67. Suppose the fraction is $\frac{x}{y}$

$$\therefore \frac{x + 3x}{y + y} = \frac{30}{19} \implies \frac{4x}{2y} = \frac{30}{19}$$

$$76x = 60y \implies \frac{x}{y} = \frac{60}{76} = \frac{15}{19}$$

68.

Days	**Women**
18 ↑	42 ↓
21	x

$$21 : 18 :: 42 : x$$

$$\therefore x = \frac{18 \times 42}{21} = 36 \text{ women}$$

69. Suppose the age of Sulekha and Arunima is 9x yr and 8x yr.

$$\therefore x = \frac{9x + 5}{8x + 5} = \frac{10}{9}$$

$$81x + 45 = 80x + 50$$

$$81x - 80x = 50 - 45 \implies x = 5$$

$$\therefore \text{Difference} = 9 \times 5 - 8 \times 5 = 45 - 40 = 5 \text{ yr}$$

70. Suppose total amount was Rs.x.

$$\therefore x - 68357 - 25675 = x \times \frac{28}{100}$$

$$\implies x - \frac{28x}{100} = 94032$$

$$\implies \frac{72x}{100} = 94032$$

$$\implies x = \frac{94032 \times 100}{72} = 130600$$

$$\implies x = Rs.1,30,600$$

71. Total number of students playing Cricket

$$= 38 + 40 + 12 + 17 + 25 + 18 + 20 = 170$$

$$\therefore \text{Required percentage} = \frac{25}{170} \times 100$$

$$= 14.706 = 15\%$$

72. Required ratio = 27 : 18 $\Rightarrow$ 3 : 2

73. Looking at the table we find Cricket is the most popular game.

74. Total number of students of class Xth playing different games.

= 5 + 12 + 7 + 21 + 18 + 8 + 11 + 33 = 115

$\therefore$ Required percentage $= \dfrac{21}{115} \times 100$

$= 1826 = 18\%$

75. Obviously Basket Ball and Badminton both have students in increasing order from IXth to XIIth.

76. ? $\approx$ 1555 + 144 = 1700

77. ? $\approx$ 834 − 675 = 160

78. $\sqrt{3480.9998} = 100.99 - ?$

$\Rightarrow 59 = 101 - ?$

$\therefore ? = 42$

79. $2\,\dfrac{1}{3} + \dfrac{1}{3} + \dfrac{1}{5} + \dfrac{1}{7} = \dfrac{316}{105} = 3$

80. $12^3 + (1.2)^2 + (1.02)^1 + (1.009)^0$

$= 1728 + 1.44 + 1.02 + 1 \approx 1731$

81. Percentage of units sold in 1999 = 88%

Percentage of units sold in 2000 = 91%

$\therefore$ Percentage increase = 91 − 88 = 3%

82. E (We can conclude this from table)

83. Number of units manufactured by company D in 2003 = 27 millions

$\therefore$ Number of units sold $= 27 \times \dfrac{75}{100} = 20.25$ mi.

$= 20.25 \times 10^6 = 20250000$

84. Number of units not sold by company B in the years 1999, 2002 and 2004 = 17680000

85. C (from table)

86. Rate of the painting = Rs.2 per sq.m

Area of rectangular floor $= \dfrac{256}{2} = 128$ sq.m

Suppose the breadth of rectangular floor is x m.

Length = 2x m

Area of rectangular floor = $l \times$ b

$\Rightarrow 128 = 2x \times x$

$\Rightarrow 128 = 2x^2$

$\Rightarrow x^2 = \dfrac{128}{2} = 64$

$\Rightarrow$ x = 8 m

So, the length of the floor = 2x = 2 × 8

$\hspace{6cm}$ = 16 m

87. Suppose $\angle A = x°$; $\angle B = x + 26$

$\angle C = \dfrac{x + 26}{2} = \dfrac{x}{2} + 13$; $\angle D = \dfrac{x}{2} + 3$

$\therefore$ x + x + 26 + $\dfrac{x}{2}$ + 13 + $\dfrac{x}{2}$ + 3 = 360°

$\Rightarrow$ 3x + 42 = 360° $\hspace{1cm}$ $\left(\because \dfrac{x}{2} + \dfrac{x}{2} = x \right)$

= 3x = 318 $\therefore$ x = 106°

So, the $\angle$ A = 106°

88. Suppose the number x.

= x $-$ $\dfrac{x}{7}$ = 180 $\Rightarrow$ $\dfrac{7x - x}{7}$ = 180

$\Rightarrow$ $\dfrac{6x}{7}$ = 180 $\Rightarrow$ x = $\dfrac{180 \times 7}{6}$ $\Rightarrow$ x = 210

89. From point A to B, speed = 4 km/h

From point B to A, speed = 6 km/h

Ratio of required time 6 : 4 or 3 : 2

90. In every 30 min the time of a watch increased by 3 min = 12 × 3 = 36 min

So, the time after 6 h = 5 am + 6 h + 36 min

$\hspace{5cm}$ = 11 : 36 am

(Q.91 – 95): Number of boys in the class = $\dfrac{5}{12}$ × 84 = 35

Number of girls in the class = $\dfrac{7}{12}$ × 84 = 49

Number of girls speaking Hindi and English both = 7

50% i.e., 42 students speak Hindi alone.

Number of students who speak English only = 32, as the ratio of students speaking Hindi and English only = 21 : 16

Number of girls who speak English only = 20

Number of boys who speak English only = 12

Number of girls who speak Hindi only = 22

Number of boys who speak Hindi only = 20

Number of boys who speak both languages = 35 – 32 = 3

97. Suppose sum of money divided among A, B, C and D is Rs.3x, Rs.4x, Rs.9x and Rs. 10x respectively.

9x – 4x = 2580 $\Rightarrow$ 5x = 2580

$$\therefore x = \frac{2580}{5} = 516$$

Total amount of money of A and D together

$= 3x + 10x = 13x = 13 \times 516 = Rs.6708$

98. There are 7 letters in the word OPERATE whereas E has come twice.

Number of permutation $= \dfrac{7!}{2!}$

$$= \frac{7 \times 6 \times 5 \times 4 \times 3 \times 2!}{2!}$$

$$= 7 \times 6 \times 5 \times 4 \times 3 = 2520$$

99. Suppose original number is $(10x + y)$.

and $x + y = 16$

and $(10x + y) - (10y + x) = 18$

$\Rightarrow 10x + y - 10y - x = 18$

$\Rightarrow 9x - 9y = 18 \qquad \Rightarrow x - y = 2$

Add Eq. (i) and Eq. (ii) $\quad x + y = 16$

$\dfrac{x - y = 2}{2x = 18} \quad \therefore x = 9 \ $ and $y = 7$

Required Number $= 10x + y = 90 + 7 = 97$

100. Due to stoppages difference $= 64 - 48$

$$= 16 \text{ km}$$

Required time for stoppages $= \dfrac{16}{64} \times 60$

$$= 15 \text{ min}$$

(ఈ నమూనా ప్రశ్నపత్రాన్ని హైదరాబాద్‌లోని RACE Institute కు చెందిన నిపుణులు రూపొందించారు.)