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IBPS PO - PRELIMS GRAND TEST - 02

Time Allowed: 60 Mins • No of Question: 100 • Maximum Marks: 100 • Negative Marks: 0.25

Name:.. **Roll No:...**

➔ *Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.*

INSTRUCTIONS

This test comprises the following sections.

Section	Question Nos	No of Qns / Marks
1. Reasoning	1 to 35	35
2. Quantitative	36 to 70	35
3. English	71 to 100	30

1. Immediately after the commencement of the examination, you should check that this booklet does not have any un printed or torn or missing pages or items, etc. If so, get it replaced by a complete Test booklet.

2. You have to enter your Name and Roll Number on the Test Booklet in the BOX provided alongside. Do NOT write anything else on the Test Booklet.

3. This Test Booklet contains 100 Questions. Each Question is printed in English. Each Question comprises FIVE Responses (Answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose ONLY ONE response for each item.

4. You have to mark all your responses ONLY on the separate Answer sheet provided.

5. All Questions carry equal marks.

6. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.

7. Sheet for rough work are appended in the Test Booklet at the end.

8. Penalty for Wrong answers

   THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE

   (i) There are five alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, *one-fourth (0.25)* of the marks assigned to that question will be deducted as penalty.

   (ii) If a candidate gives more than one answer, it will be treated as a wrong answer ever if one of the given answers happens to be correct and there will be same penalty as above to that question.

   (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

REASONING

Directions (1-5): *Study the following information to answer the given questions*

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement. All the numbers are two-digit numbers.

Input	: 43 May June July 85 65 August April 24 68 28 March February 12
Step I	: May 43 June July 65 August April 24 68 28 March February 12 85
Step II	: March may 43 June July August April 24 68 28 February 12 85 65
Step III	: June March May July August April 24 68 28 February 12 85 65 43
Step IV	: July June March May August April 24 68 28 February 85 65 43 12
Step V	: February July June March May August April 68 28 85 65 43 12 24
Step VI	: August February July June march may April 68 85 65 43 12 24 28
Step VII	: April August February July June March May 85 65 43 12 24 28 68

Step VII is the last step. As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the input given below.

Input: Sunday Thursday 99 78 Tuesday Wednesday 85 19 Friday 98 56 Monday 22 Saturday

1. Which of the following will be step IV of the rearrangement?
   (1) Saturday Sunday Tuesday Thursday Wednesday 78 Friday 98 Monday 99 85 19 22 56
   (2) Sunday Saturday Tuesday Wednesday Thursday 78 Friday 98 Monday 99 85 19 22 56
   (3) Sunday Saturday Tuesday Thursday Wednesday 78 Friday 98 Monday 99 85 19 22 56
   (4) Sunday Saturday Tuesday Thursday Wednesday 78 Friday 98 Monday 85 19 99 22 56
   (5) None of these

2. Which of the following is third to the right of the one that is eighth from the right end in step VI?
   (1) 85   (2) Friday   (3) Sunday
   (4) 19   (5) None of these

3. What will be the position of 'Wednesday' in step VI?
   (1) Fifth from the left
   (2) Eighth from the right
   (3) Sixth from the right
   (4) Eighth from the left
   (5) None of these

4. Which of the following will be the last step of the rearrangement?
   (1) Monday Sunday Saturday Tuesday Thursday Wednesday Friday 98 99 85 19 22 56 78
   (2) Friday Monday Sunday Saturday Tuesday Thursday Wednesday 98 85 99 19 22 56 78
   (3) Friday Monday Sunday Saturday Thursday Tuesday Wednesday 99 85 19 22 56 98
   (4) Friday Monday Sunday Saturday Tuesday Wednesday Thursday 98 85 99 56 22 78
   (5) None of these

5. How many elements (words or numbers) are there between 'Tuesday' and '98' as they appear in the third step of the output?
   (1) One   (2) Two   (3) Four
   (4) Five   (5) Six

Directions (6-10): *Study the following information to answer the given questions*

In a certain code language, 'no lo pe to' means 'we love our country', le pe no ze' means 'India is our country', 'ko pe ge co; means ' proud to be country', 'le ko' means 'pound india', 'ge lo so' means 'love to all' and 'fo le gm' means 'India independence day'.

6. What is the code for 'independence'?
   (1) Fo   (2) Gm   (3) Le
   (4) Co   (5) Can't be determined

7. Which of the following is the code for 'proud to be India'?
   (1) Ge pe ko co   (2) Ge le no ze
   (3) Le ge lo pe   (4) Ge le ko co   (5) None of these

8. Which of the following may be the code for 'I love our ocuntry'?
   (1) Pe no lo ge   (2) Lo no pe to   (3) Me no pe lo
   (4) Lo no le po   (5) None of these

9. What is the code for 'day'?
   (1) Gm   (2) Fo   (3) Lo
   (4) Either 'gm' or 'fo'   (5) None of these

10. IF 'love' is related to 'lo', 'proud' is related to 'ko', in the same way 'our' is related to which of the following ?
    (1) No   (2) To   (3) Le
    (4) Ge   (5) None of these

Directions (11-15): *Study the following information to answer the given questions*

M, N, O, P, Q, R, S, and T are captains of eight different football teams, England, brazil, spain, Holland, Hungary, Germany, Chile and Real Madrid but not necessarily in the same order. All of them are seated around a circular table and are facing the centre.

M sits third to the left of the captain of Germany. The captain of Chile, who is not Q, is an immediate neighbour of T. S and T are not immediate neighbours, Only one person sits between T and the captain of Real Madrid. P is neither the captain nor the immediate neighbour of the Brazilian team. Only two people sit between Q and S. Neither Q nor S is an immediate neighbour of M. Neither Q nor S is the captain of Germany. The captain of Spain sits second to the right of P. P is not an immediate neighbour of M. P is not the captain of Germany and M is not the captain of Spain. The captain of England sits third to the left of R. The captains of England and Germany are not immediate neighbours.

Only one person sits between P and the captain of the Holland team. N is not the captain of Chile.

11. Who is the captain of the Chile team?
    (1) O   (2) T   (3) M
    (4) N   (5) None of these

12. P is related to which of the following teams?
    (1) Hungary   (2) England   (3) Spain
    (4) Holland   (5) None of these

13. Which of the following combinations is definitely true?
    (1) T-Hungary (2) Q-Real Madrid (3) N-Brazil
    (4) R-Holland (5) None of these

14. Which of the following combinations is false in respect of the given information?
    (1) N-Brazil   (2) Q-Hungary   (3) O-chile
    (4) Data inadequate   (5) None of these

15. If R is related to Brazil, N is related to Chile, in the same way T is related to which of the following?
    (1) Real Madrid   (2) Hungary
    (3) Spain   (4) Chile   (5) England

Directions (16-20): *In each question below are given two/ three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer*

1) If **only** conclusion **I** follows
2) If **only** conclusion **II** follows
3) If **either** conclusion I **or** II follows
4) If **neither** conclusion I **nor** II follows
5) If **both** conclusion I **and** II follow

16. **Statements** : Some cats are kittens.
    All dogs are kittens
    No kittens are black
    Conclusions : **I.** All kittens being cats is a possibility
    II. Some dogs can never be black

17. **Statements** : 60% of the government teachers went on strike.
    Miss Rani is a government teacher.
    Conclusions : **I.** That miss Rani went on strike is a possibility
    II. Miss Rani did not participate in the strike

18. **Statements** : All scholars are eccentric
    No woman is eccentric
    All eccentrics are studies
    Conclusions : **I.** No woman is a scholar
    II. All studies being scholar is a possibility

19. **Statements** : Some eggs are hard-boiled
    No eggs are uncrackable
    Conclusions : **I.** Some hard-boiled are uncrackable
    II. No hard-boiled are uncrackable

20. **Statement** : Some perfumes reek badly
    All perfumes are expensive
    All expensive things are unique
    Conclusions : **I.** There is a possibility that all unique things are perfumes
    II. Unique things can never reek badly.

Directions (21-25): *Study the following information carefully to answer the given questions.*

Amongst five friends, M, N, O, P and Q, each got a different percentage of marks in the class 10th examination.
P scored more than N but less than Q. N scored 80% marks. The one who scored the minimum marks, scored 75% marks, and the one who scored the highest, scored 97% marks. O scored more than only M.

21. Who scored the second lowest marks?
    (1) N   (2) O   (3) M
    (4) P   (5) None of these

22. Who among the following is most likely to have scored 85% marks?
    (1) O   (2) P   (3) Q
    (4) Can't be determined   (5) None of these

23. Which of the following could possibly be O's percentage?
    (1) 82%   (2) 80%   (3) 75%
    (4) Can't be determined   (5) None of these

24. Which of the following is true with respect to the given information?
    (1) O's percentage was definitely less than 65%
    (2) Q scored the second highest percentage
    (3) Only two people scored more than M
    (4) The possible percentage obtained by P is 98%
    (5) None of these

25. Which of the following is false with respect to the given information?
    (1) N scored more than only O and M
    (2) O scored 80% marks
    (3) Q scored the highest Percentage
    (4) M scored the least percentage
    (5) All are true

Directions (26-30): *Study the following information carefully to answer the given questions.*

Ten members of a family are sitting in a restaurant in two parallel rows of chairs containing five people each, in such a way that there is equal distance between adjacent persons. In row 1, M, N, O, P and Q are seated and all of them are facing south. In row 1, A, B,C, D and E are seated and all of them are facing north. Each of them likes different flavours of ice cream, Viz Butterscotch, Vanilla, Strawberry, Black cherry, Chocobar, Mango Bar, Butter cluster, Tutti Frutti, Orange Sorbet and Kurly Wurly but not necessarily in the same order. In the given seating arrangement, each member seated in a row faces another member of the other row.

D sits third to the left of the person who likes Orange Sorbet. M, who likes Black Cherry faces the immediate

neighbour of D. O, who likes Strawberry, sits second to the right of M. Only one person sits between N and P, who like Vanilla and Mango Bar respectively. B and E are immediate neighbours of each other. E who does not face M and N, likes Butterscotch. B does not like Orange Sorbet. A sits second to the right of the person who like Choco Bar. C likes neither Black Cherry nor Butter Cluster. The one who like Vanilla faces the one who likes kurly wurly. Q does not like Black Cherry.

26. Who like Black cherry?

(1) Q   (2) D   (3) C

(4) M   (5) None of these

27. Who sits third to the left of N?

(1) P   (2) Q   (3) M

(4) O   (5) None of these

28. Which of the following information is true in respect of the given information?

(1) D likes Tutti Frutti

(2) P likes Mango Bar and sits on the immediate left of N.

(3) A likes Black Cherry.

(4) E is the immediate neighbour of B and D

(5) None of these

29. Who faces the one who likes Butter cluster?

(1) E   (2) A   (3) B

(4) D   (5) None of these

30. Which of the following combinations is false in respect of the given informations?

(1) D-Kurly Wurly

(2) M-Black Cherry

(3) Q-Orange Sorbet

(4) Data inadequate

(5) None of these

31. In a certain code MEAN is written as '8964' and NOBLE is written as '47529'. How is LOAM written in that code?

(1) 2768   (2) 2758   (3) 2968

(4) 2468   (5) None of these

32. 'Red' is related to 'Stop' in the same way as 'Green' is related to

(1) Colour   (2) Paint   (3) Lamp

(4) Start   (5) None of these

33. How many such pairs of letters are there in the word SECURITY each of which has as many letters between them in the word as in the English alphabet?

(1) None   (2) One   (3) Two

(4) Three   (5) More than three

34. If it is possible to make only one meaningful word with the first, the third, the fourth and the sixth letters of the word LEARNING, using each only once, which of the following will be the third letter of that word? If more than no such word can be formed give 'Y' as the answer and if no such word can be formed, give 'Z' as the answer.

(1) I   (2) R   (3) A

(4) Y   (5) Z

35. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

(1) Lotus   (2) Lily   (3) Rose

(4) Marigold   (5) Petal

QUANTITATIVE

Directions (36-40): *The following series of numbers are based on some definite pattern. Identify the pattern and guess the next number which should come in place of question (?) mark which should come in place of question(?) Mark in the given series.*

36. 9 5 6 10.5 23 ?

(1) 30   (2) 48   (3) 69

(4) 60   (5) 65

37. 8 9 44 423 6832 ?

(1) 120435   (2) 170925   (3) 170860

(4) 170859   (5) 170920

38. 2 3 6 18 108 ?

(1) 2000   (2) 1953   (3) 1928

(4) 1944   (5) 1900

39. 81 90 26 51 –165 ?

(1) 214   (2) –214   (3) 116

(4) –116   (5) 120

40. 6 20 83 419 2519?

(1) 18924   (2) 19230   (3) 16510

(4) 17892   (5) 17639

Directions (41-45): *The following questions consists of one question and two statements. Read the questions carefully and answer which of the statement(s) is/are required to answer the question. Given answer*
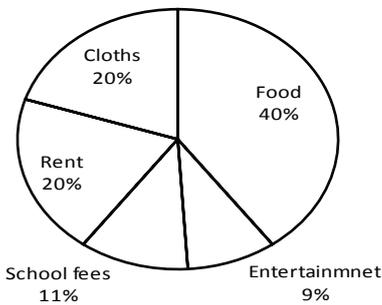
1) If only statement I is sufficient to answer the question while statement II is not sufficient to answer the question.

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

3) If either of the statements is sufficient to answer the question.

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

5) If both statements I and II are required to answer the question.

41. If A sells a product at 20% profit, how much profit (in Rs) will he earn?

I. The SP was 120% of the CP.

II. The difference between the SP and the CP was Rs. 50

42. What is the speed of a train which crosses another train running in opposite direction in x seconds?

I. Both the trains have the same length and speed.

II. One train crosses a pole in 5 seconds.

43. What is a two-digit number?

I. The difference of the two digits is 9.

II. The sum of the digits is equal to the difference of the digits.

44. What is the area of a square inscribed in a circle?
I. Radius of the circle is given.
II. Perimeter of the circle is given.

45. How many children in a class can speak Hindi?
I. Only 20% children in the class cannot speak Hindi.
II. 44 children in the class cannot speak Hindi.

Direction (46-50): *In each of these questions, two equation (I) and (II) are given. You have to solve both the equation and give answer*

1) If x < y
2) If x > y
3) If x ≤ y
4) If x ≥ y
5) If x = y, or relationship between x and y can't be established.

46. **I.** $x^2 - 13x + 36 = 0$

    II. $y^2 - 3y - 10 = 0$

47. **I.** $(x - 2)^2 + (y - 2)^2 = (x + 4)^2 + 2 \times 2 - 4y + 8 + y^2$

    II. $y^2 + 30y + 200 = 0$

48. **I.** $\sqrt{\dfrac{5x^2 + 3}{x + 1}} = 2$

    II. $\dfrac{y^2 - 10y + 16}{y^2 - 12y + 24} = \dfrac{2}{3}$

49. **I.** $x^2 - 14x + 49 = 0$

    II. $y^2 - 15y + 36 = 0$

50. **I.** $x^2 - 8x + 15 = 0$

    II. $y^2 - 12y + 32 = 0$

51. The altitude of a triangular field is $\dfrac{2}{9}$ times its base. If the cost of cultivating the field at the rate of Rs 5 per square metre is Rs 1125, find the altitude of the field.
(1) 5 m   (2) 45 m   (3) 10 m
(4) 15m   (5) 20 m

52. A square-shaped floor has one of the sides 16m. If it has to be flooed with tiles measuring 0.4m × 2m. How many tiles will be needed?
(1) 32   (2) 160   (3) 320
(4) 240   (5) 120

53. If a triangle and a rectangle lie on the same base, and the breadth of the rectangle is half the altitude of the triangle, find the ratio of the area of the triangle to that of the rectangle.
(1) 1:2   (2) 2:1   (3) 3:1
(4) 1:3   (5) 1:1

54. A boat is rowed down a river 72 km in 8 hours and up the river 35 km in 7 hours. Find the speed of the river
(1) 5.5 kmph   (2) 2.5 kmph   (3) 2 kmph
(4) 4 kmph   (5) 6.5 kmph

55. Find the area of a triangle whose perimeter is 16cm and two sides are 7cm and 5cm respectively.
(1) 280 cm²   (2) 10 cm²   (3) 28 cm²
(4) $\sqrt{280}$ cm²   (5) $\sqrt{96}$ cm²

56. A question paper contains 12 problems. Each problem has an internal choice of 2 questions. In how many different ways can a candidate attempt one or more problems?
(1) 12!   (2) 2^{12} (3) $2^{12} - 1$
(4) 3^{12} (5) $3^{12} - 1$

57. If a number is chosen from the set {1,2,3,4,5.........56} (from 1 to 56) what is the probability that it is a multiple of 4?
(1) $\dfrac{2}{19}$ (2) $\dfrac{1}{4}$ (3) $\dfrac{1}{2}$
(4) $\dfrac{1}{8}$ (5) $\dfrac{5}{56}$

58. The ratio of males to females in a group is 6:7. If four females join the group and three males leave the group the ratio of females to males becomes 4:3. What is the original number of males and females respectively in the group?   (1) 54,63
(2) 45,60   (3) 60,45
(4) 56,48   (5) 48,56

59. The population of a city increases by 10% every year over its previous year. If the present population is 266200, what was the population of the city three year ago?
(1) 190000   (2) 250000   (3) 200000
(4) 150000   (5) None of these

60. By selling an article at $\dfrac{9}{13}$ of its SP, a trader incurs 10% loss. What will be the profit per cent if the trader sells it at the actual SP?
(1) 30%   (2) 13%   (3) 40%
(4) 20%   (5) 12%

61. A sum is lent for six years at 37% and 33% simple interest respectively and the difference of the interests is Rs 54. Find the sum.
(1) Rs. 150   (2) Rs. 250   (3) Rs. 225
(4) Rs. 300   (5) Rs. 125

62. The average age of a group of six children is 15 years. From the group, two children, whose ages were 3 years more and 5 years more than the average age, left. 4 new children, whose average age is 4 years more than the given average age, join the group. Find the new average age.
(1) 15 years   (2) 16 years   (3) 17 years
(4) 18 years   (5) 12 years

63. Rohit, Indira and Anamika start a business. If the ratio of their periods of investment is 1:2:5 and their profits are in the ratio of 3:4:5, find the ratio of the capitals of Rohit, Indira and Anamika.
(1) 2:3:5   (2) 1:2:3   (3) 3:2:1
(4) 4:1:3   (5) 3:4:5

64. A, B and C together can complete a piece of work in 8 days. B, C started working and A joined them after 6 days and it took them another 6 days to complete the work, In how many days can A alone complete the work?
(1) 14 days   (2) 15 days   (3) 9 days
(4) 16 days   (5) 12 days

65. Two persons A and B start moving simultaneously towards each other from two places P and Q respectively. They
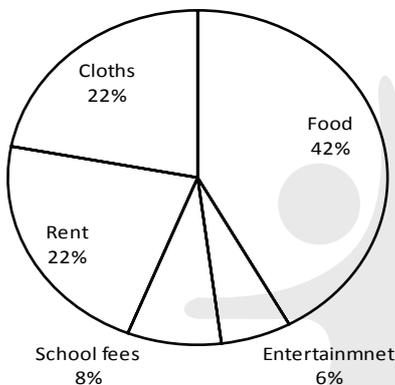
meet 40 km from Q. If the ratio of their speeds is 1: 4, find the distance between P and Q.

(1) 45 km (2) 200 km (3) 45km
(4) 100km (5) 50km

Diections (66-70): *The given pie-charts show the expenses of a family of two months:*

Cloths 20%
Food 40%
Rent 20%
School fees 11%
Entertainmnet 9%

June = Rs. 12000

Cloths 22%
Food 42%
Rent 22%
School fees 8%
Entertainmnet 6%

July = Rs. 18000

66. What is the percentage increase in expenses on food from June to July?
(1) 60.5% (2) 48.5% (3) 57.5%
(4) 63.5% (5) 43.5%

67. The total amount spent on entertainment in both the months is
(1) Rs. 1040 (2) Rs. 2160 (3) Rs. 3150
(4) Rs. 2500 (5) Rs. 1900

68. The expenses on clothes in July is what per cent more than the expenses on school fees in June?
(1) 50% (2) 300% (3) 200%
(4) 180% (5) 150%

69. The expenses on rent in July is what per cent more than the expenses on clothes in June?
(1) 45% (2) 35% (3) 55%
(4) 65% (5) 80%

70. What is the average expense on entertainment and rent in July and food and clothes in June?
(1) Rs.2050 (2) Rs. 1020 (3) Rs. 3500
(4) Rs. 3200 (5) Rs. 3060

ENGLISH

Directions (71-75): *Each question below has two blanks, each blank indicating that something has been omitted.*

Choose the set of words for each blank which best fits. The meaning of the sentence as a whole.

71. Behaving in a --------- and serious way, even in a ------- situation, makes people respect you.
(1) Calm, difficult
(2) Steady, angry
(3) Flamboyant, tricky
(4) Cool, astounding
(5) Silly, sound

72. Along with a sharp rise in ---------- a recession would eventually result in more men, women, and children living in ----------
(1) Crime, apathy
(2) Fatalities , poor
(3) Deaths, slums
(4) Unemployment, poverty
(5) Migrations, streets

73. The government has -------- to provide financial aid to the ones --------- by severed floods in the city
(1) Desired, troubled
(2) Promised, have
(3) Failed, affected
(4) Wanted, struck
(5) Decided, ill

74. An airplane with --------------- passengers on board made an unscheduled ------------ as the airport to which it was heading was covered with thick fog.
(1) Irritable, slip
(2) Faulty, stop
(3) Variety, halt
(4) Tons, wait
(5) Numerous, landing

75. Deemed universities -----------huge fees, but have not been successful in providing ------- education to our students.
(1) Collect, maintaining
(2) Pay, belted
(3) Ask, good
(4) Charge, quality
(5) Demand, quantitative

Directions (76-80): *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) In turn, the buyer is called the franchisee.
(B) These two parties are called the franchisor and franchisee
(C) This means that it gives permission for the buyer to use its name and sell its products.
(D) He pays money to the franchisor, and agree to obey the rules the franchisor makes
(E) A franchising agreement includes two parties
(F) The franchisor is the business house/entity which grants the franchisee license.

76. Which of the following should he the **FOURTH** sentence after rearrangement?
(1) B (2) C (3) D
(4) E (5) F

77. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement?
(1) B (2) C (3) D
(4) E (5) F

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

    (1) B   (2) C   (3) D
    (4) E   (5) F

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

    (1) E   (2) F   (3) A
    (4) D   (5) B

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

    (1) A   (2) B   (3) C
    (4) D   (5) E

Directions (81-85): *Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. It there is no error, the answer is 5). (Ignore errors of punctuations, if any.)*

81. (1) The President had denied
    (2) that the economy is in recession
    (3) or was go into one
    (4) despite a spate of downcast reports
    (5) No error

82. (1) The angry at being
    (2) left out of the bonanza
    (3) is palpable among
    (4) employees of the organization
    (5) No error

83. (1) His comments came after
    (2) the research group said that its
    (3) consumer confidence index were
    (4) slumped to its lowest level
    (5) No error

84. (1) If all goes well
    (2) the examination scheduled for next month
    (3) is all set to be completely free
    (4) from annoying power cuts and disruptions
    (5) No error

85. (1) There are just too few trains
    (2) for the ever-grow
    (3) number of passengers
    (4) in the city
    (5) No error

Directions (86-90): *Read the following passage carefully and answer the questions given below it.*

A new analysis has determined that the threat of global warming can still be greatly diminished if nations cut emissions of heat-trapping greenhouse gases by 70% this century. The analysis was done by scientists at the National Center for Atmospheric Research (NCAR). While global temperatures would rise, the most dangerous potential aspects of climate change, including massive losses of Arctic sea ice and permafrost and significant sea-level rise, could be partially avoided.

"This research indicates that we can no longer avoid significant warming during this century," said NCAR scientist Warren Washington, the study paper's lead author.

"But, if the world were to implement this level of emission cuts, we could stabilizes the threat of climate change", he added.

Average global temperatures have warmed by close to 1 degree Celsius since the pre-industrial era. Much of the warming is due to human-produced emission of greenhouse gases, predominantly carbon dioxide. This heart-trapping gas has increased from a per-industrial level of about 284 parts per million(ppm) in the atmosphere to more than 380 ppm today. With research showing that additional warming of about 1 degree C may be the threshold for dangerous climate change, the European Union has called for **dramatic** cuts in emission of carbon dioxide and other greenhouse gases.

To examine the impact of such cuts on the world's climate, Washington and his colleagues ran a series of global studies with the NCAR-based Community Climate System Model (CCSM). They assumed that carbon dioxide levels could be held to 450 ppm at the end of this century. In contrast, emissions am now on track to reach about 750 ppm by 2100 if unchecked. The team's result showed that if carbon dioxide were held to 450 ppm, global temperatures would increase by 0.6 degree Celsius above current readings by the end of the century. In contrast, the study showed that temperatures would rise by almost four limes that amount, to 2.2 degrees Celsius above current readings, if emissions were allowed to continue on their present course. Holding carbon dioxide levels to 450 ppm would have other impacts, according to the climate modeling study.

Sea-level rise due to thermal expansion as water temperatures warmed would be 14 centimetres (about 5.5 inches) instead of 22 centimetres (8.7 inches). Also, Arctic ice in the summertime would shrink by about a quarter in volume and stabilize by 2100, as opposed to shrinking at least three-quarters and continuing to melt, and Arctic warming would be reduced by almost half.

86. Why has the European Union called for dramatic cuts in carbon dioxide and greenhouse gas emissions?

    (1) As global warming is not an issue of concern
    (2) As the temperatures may rise almost by an additional one degree and this may lead to severe climate change
    (3) As the NCAR has forced the European Union to announce the cuts.
    (4) As all the nations have decided to cut emissions of carbon dioxide
    5) None of these

87. What would NOT be one of the impacts of cutting greenhouse gas omissions?

    (1) Temperatures will stop soaring
    (2) Ice in the Arctic sea would melt at a slower pace.
    (3) The rise in sea level would be lesser
    (4) All of the above would be the imapct
    (5) None of these

88. What would be the impact of unchecked greenhouse gas and carbon dioxide emission?

    (1) The temperature would rise from the current

temperature by 2.2 degrees Celsius

(2) The sea level would rise by about 5.5 inches.

(3) The Arctic ice would stabilize by 2100

(4) The Arctic ice would reduce by one-fourth

(5) None of these

89. What can be the most appropriate title of the above passage?

(1) A study of the rise in water level

(2) A study of rise in temperatures

(3) A study of the effects of greenhouse gas emissions

(4) A study of the Arctic region

(5) A study of change in seasons

90. Which of the following statements is true in the context of the passage?

(1) At present the carbon dioxide emission is about 284 ppm

(2) The carbon dioxide emission will be about 450 ppm at the end of this century if unchecked.

(3) The carbon dioxide emission was about 330 ppm during the pre-industrial era

(4) The carbon dioxide emission will be about 750 ppm at the end of this century if unchecked.

(5) None of these

91. What does the scientist warren Washington mean when he says "We could stabilize the threat of climate change"?

(1) Climate change can be stopped completely

(2) Climate change can be regularized

(3) Climate change and its effects can be studied extensively

(4) The ill-effects of the change in climate can be minimized

(5) None of these

92. Why did Washington and his colleagues conduct a series of studies?

(1) Because they realized that the temperature increase was almost about 1 degree

(2) So that they could stabilize the climate change

(3) So that they could help the European Union in cutting the carbon dioxide emissions

(4) Because the found out that the greenhouse gas emissions could be cut by 70%

(5) None of these

93. What would be the impact of holding the carbon dioxide level at 450 ppm at the end of this century?

(A) Global temperatures would increase by 0.6 degrees Celsius

(B) Arctic warming would be reduced by half

(C) Thermal expansion will stop completely

(1) Only (A)   (2) Only (A) and (B)

(3) Only (B) and (C)

(4) All the three (A), (B) and (C)

(5) None of these

94. Choose the word which is MOST SIMILAR in meaning to the word "Dramatic" as used in the passage.

(1) Unprecedented   (2) Thrilling

(3) Spectacular   (4) Effective

(5) Feeble

Directions (95-100): *Which of the phrases (1), (2), (3), (4) given below each sentence should replace the phrases printed in* **bold** *to make the sentences grammatically correct? If the sentence is correct as it is, mark (5) ie 'No correction required' as the answer.*

95. Most teenagers these days **prefer play** cricket to pursuing other hobbies.

(1) Preferably played   (2) Prefer playing

(3) Preferred to playing   (4) Prefer to play

(5) No correction required

96. He cordially enquired how **was my health.**

(1) My health was

(2) My health had

(3) My health is

(4) Is my health

(5) No correction required

97. The season being very favorable, he seems to have **been enjoyed** the vacation.

(1) Have enjoyed

(2) Have been enjoy

(3) Be enjoyed

(4) Had been enjoyed

(5) No correction required

98. **He tried hardly** and that led to his success.

(1) Hardly had he tried

(2) Had he tried hardly

(3) He had tried hard

(4) He hard tried

(5) No correction required

99. They had not **been sympathetic** to the poor.

(1) Being sympathetic

(2) Been sympathized by

(3) Sympathetic

(4) Been shown sympathy for

(5) No correction required

100. Problems faced by the common man **can be classified** by several categories

(1) Will be classified by

(2) Can be classified into

(3) Will be classified between

(4) Can classify into

(5) No correction required

IBPS PO - PRELIMS GRAND TEST - 02
SOLUTION

1-5. The word- number arrangement machine rearranges one word and one number at a time in each step. It rearranges word in reverse alphabetical order from left, and number from right. The odd numbers are arranged in descending order and then the even numbers in ascending order.

Input: Sunday thursday 99 78 tuesday wednesday 85 19 friday 98 56 monday 22 saturday

Step I: Wednesday sunday thursday 78 tuesday 85 19 friday 98 56 monday 22 saturday 99

Step II: Tuesday wednesday sunday thursday 78 19 friday 98 56 monday 22 saturday 99 85

Step III: Thursday tuesday wednesday sunday 78 friday 98 56 monday 22 saturday 99 85 19

Step IV: Sunday thursday tuesday wednesday 78 friday 98 56 monday saturday 99 85 19 22

Step V: Saturday sunday thursday tuesday wednesday 78 friday 98 monday 99 85 19 22 56

Step VI: Monday saturday sunday thursday tuesday wednesday friday 98 99 85 19 22 56 78

Step VII: Friday monday saturday sunday thursday tuesday wednesday 99 85 19 22 56 78 98

Ans: 1. (5); 2. (1); 3. (1); 4. (5); 5. (3)

6-10.
no lo pe to → we love our country	...(I)
le po no ze → India is our country	...(II)
ko pe ge co → proud to be country	...(III)
le ko → proud India	...(IV)
ge lo so → love to all	...(V)
fo le gm → India independence day	...(VI)

From (I), (II) and (III), country → pe
From (I) and (II), our → no
From (II) and (IV), India → le
From (II) and (IV), proud → ko
From (I) and (V), love → lo
From (I) and the above inference, we → to
From (II) and the above inference, is → ze
From (III) and (V), to → ge
From (I), (III) and (V), all → so
From (III) and the above inference, be → co
From VI, independence → 'fo' or 'gm'
       Day → 'gm' or 'fo'

Ans: 6. (5); 'fo' or 'gm, 7. (4); 8.(3); 9. (4); 10. (1)

11-15.
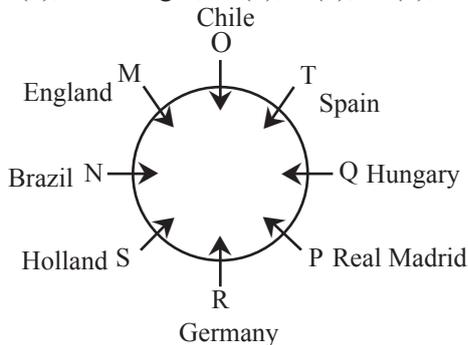
Ans: 11. (1); 12. (5); 13. (3); 14. (5); 15. (1)

16. (5); Conclusion I is inherent in the first statement. Again, All dogs are kittens (A) + No Kittens are black (E) = A + E = E = No dog is black. Hence, conclusion II follows.

17. (1); There is no negative statement. Hence, Conclusion I follows. But conclusion II is a negative conclusion. Hence, II does not follow.

18. (5); All scholar are eccentric (A) + Conversion of No woman is eccentric → conversion → No woman is a scholar. Hence, conclusion I follows.

Again, All scholars are eccentric (A) + All eccentrics are studies (A) = A + A = A. All scholar are studies. It means. All studies being scholar is a possibility. Hence, conclusion II follows.

19. (3); Some eggs are hard - boiled → conversation → Some hard - boiled are eggs (I) + No eggs are uncrackable (E) = I + E = O = Some hard - boiled are not uncrackable. But, conclusion I and II make a complementaty pair (I-E).
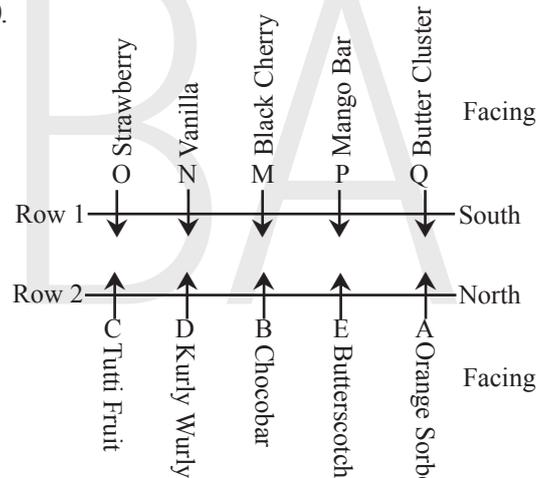
20. (1); All perfumes are expensive (A) + All expensive things are unique (A) = A + A = All perfumes are unique. Hence, All unique thing being perfumes is a possibility. Thus, conclusions I follows. But II does not follow.

21-25.   Q > P > N   ...(I)

   ↓

   80%
   Q > P > N > O > M

   ↓   ↓   ↓

   97%   80%   75%
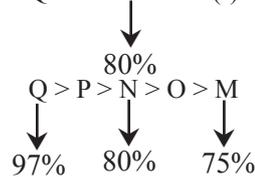
Ans. 21. (2); 22. (2); Because P lies between the one who scored 97% marks and the one who scored 80% marks.
23. (5); 24. (5); 25. (2)

26-30.

Ans: 26. (4); 27. (2); 28. (5); 29. (2); 30. (3)

31. (1); Look at the following table which shows the letters and their respective codes:

Letter	M	E	A	N	O	B	L
Code	8	9	6	4	7	5	2

Hence, the code for all the world LOAM will be 2768.

32. (4); According to the traffic rules, Red signal indicates 'stop'; Green signal indicates 'start'.

33. (4): S E C U R I T Y

There are only three such pairs.

34. (4); Here the specified letters are L, A, R and I. The meaningful words are formed with these letters are as follows:
1. LAIR
2. LIAR
3. RAIL
4. LIRA

35. (5); Others are different types of flower.

36. (4); The series is $\times\ 0.5 + 0.5$, $\times\ 1 + 1$ $\times\ 1.5 + 1.5$, $\times\ 2 + 2$, $\times\ 2.5 + 2.5$, ...

37. (2); The series is $\times\ 1^2 + 1^3$, $\times\ 2^2 + 2^3$, $\times\ 3^2 + 3^3$, $\times\ 4^2 + 4^3$, $5^2 + 5^3$, ...

38. (4); The series is $2 \times 3 = 6$, $3 \times 6 = 18$, $6 \times 18 = 108$, $18 \times 108 = 1944$, ...

39. (4); The series is $+ 3^2, - 4^3, + 5^2, - 6^3, + 7^2$, ...

40. (5); The series is $\times\ 3 + 2$, $\times\ 4 + 3$, $\times 5 + 4$, $\times\ 6 + 5$, $\times\ 7 + 6$, ...

41. (2); **From I.** $SP = CP + \dfrac{CP \times 120}{100} = \dfrac{11CP}{5}$

So, profit $= SP - CP = \dfrac{11CP}{5} - CP = \dfrac{6CP}{5}$

But, we do not not calculate the exact amount. Hence, I is not sufficient.
From I. Profit $= SP - CP = $ Rs. 50 (given)
Hence, II alone is sufficient to answer the question.

42. (4); I. Let 'l' be the length of the train and 'S' the speed.

$\therefore \dfrac{2l}{2S} = x$

or, $x = \dfrac{l}{S}$

From II. $5 = \dfrac{l}{S}$

Hence both are not suffcient to answer the question.

43. (1); **From I.** The two-digit number can be formed by using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9. The difference between 0 and 9 is 9.
So, the digit used is 90. Hence, I is sufficient.
From II. Sum of the digits = difference of the digits. The number can be 20, 30, 40 ect. Hence, II is not sufficient.

44. (3); **From I.** We can get the diameter, which is equal to the diagonal, and area can be found.
From II. 'r' can be known. Hence are can be found.

45. (5); It is clear that only 80% can speak Hindi (I).
From I and II. 20% = 44

$\therefore 80\% = \dfrac{44}{20} \times 80 = 176$

46. (5); **I.** $x^2 - 13x + 36 = 0$
or, $x^2 - 9x - 4x + 36 = 0$
or, $x(x - 9) - 4(x - 9) = 0$
or, $(x - 4)\ (x - 9) = 0$
$\therefore x = 4 , 9$
II. $y^2 - 3y - 10 = 0$
or, $y^2 - 5y + 2y - 10 = 0$
or, $y(y - 5) + 2(y - 5) = 0$
or, $(y + 2)\ (y - 5) = 0$
$\therefore y = - 2, 5$
Hence, we can't compare x and y.

47. (2); **I.** $(x - 2)^2 + (y - 4)^2 = (x + 4)^2 + 2x^2 - 4y + 8 + y^2$
or, $x^2 - 4x + 4 + y^2 - 4y + 4 = x^2 + 8x + 16 + 2x^2 - 4y + 8 + y^2$
or, $3x^2 + y^2 + 8x - 4y + 24 - x^2 + 4x - 4 - y^2 + 4y - 4 = 0$
or, $2x^2 + 12x + 16 = 0$, or, $x^2 + 6x + 8 = 0$
or, $x^2 + 4x + 2x + 8 = 0$
or, $x(x + 4) + 2\ (x + 4) = 0$
or, $(x + 2)\ (x + 4) = 0$
$\therefore x = -2, -4$

II. $y^2 + 30y + 200 = 0$
or, $y^2 + 20y + 10y + 200 = 0$
or, $y(y + 20) + 10\ (y + 20)$
or, $(y + 10)\ (y + 20) = 0$
$\therefore y = - 10, - 20$
Hence, $x > y$

48. (5); **I.** $\sqrt{\dfrac{5x^2 + 3}{x + 1}} = 2$

Squaring both sides, we get

$\dfrac{5x^2 + 3}{x + 1} = 4$

or, $5x^2 + 3 = 4x + 4$
or, $5x^2 - 4x - 1 = 0$
or, $5x^2 - 5x + x - 1 = 0$
or, $5x\ (x - 1) + (x - 1) = 0$
or, $(5x + 1)\ (x - 1) = 0$

$\therefore x = - \dfrac{1}{5} , 1$

II. $\dfrac{y^2 - 10y + 16}{y^2 - 12y + 24} = \dfrac{2}{3}$
or, $3y^2 - 30y + 48 = 2y^2 - 24y + 48$
or, $y^2 - 6y = 0$
or, $y(y - 6) = 0$
$\therefore y = 0, 6$
Hence, we can't establish relation between x and y.

49. (5); **I.** $x^2 - 14x + 49 = 0$
or, $x^2 - 7x - 7x + 49 = 0$
or, $x(x - 7) -7\ (x - 7) = 0$
$\therefore x = 7$
II. $y^2 - 15y + 36 = 0$
or, $y^2 - 12y - 3y + 36 = 0$
or, $y(y - 12) - 3\ (y - 12) = 0$
or, $(y - 3)\ (y - 12) = 0$
$\therefore y = 3, 12$
Hence, we can't find relation between x and y.

50. (5); **I.** $x^2 - 8x + 15 = 0$
or, $x^2 - 5x - 3x + 15 = 0$
or, $x(x - 5) - 3\ (x - 5) = 0$
or, $(x - 3)\ (x - 5) = 0$
$\therefore x = 3, 5$
II. $y^2 - 12y + 32 = 0$
or, $y^2 - 8y - 4y + 32 = 0$
or, $y(y - 8) - 4\ (y - 8) = 0$
or, $(y - 4)\ (y - 8) = 0$
$\therefore y = 4, 8$
Hence, relation can't be established between x and y

51. (3); Let the base be b metres.

$\therefore$ Altitude $= \dfrac{2b}{9}$ m

Also, Area of the field $= \dfrac{1125}{5} = 225$

Now, $\dfrac{1}{2} \times b \times \dfrac{2b}{9} = 225$

$\therefore b = 45$ m

$\therefore$ Altitiude $= 2 \times \dfrac{45}{9} = 10$ m

52. (3); Area of the floor = $16 \times 16 = 256$ sq m

Area of a tile = $0.4 \times 2 = 0.8$ sq m

$\therefore$ Number of tiles required $= \dfrac{256}{0.8} = 320$

53. (5); Both lie on the same base. Their area will depend upon other dimensions.

Also, the breadth of the rectangle is half the altitude of the triangle.

$\therefore$ Ration of their areas = 1 : 1

54. (3); Speed of the boat downstream $= \dfrac{72}{8} = 9$ kmph

Speed of the boat upstream $= \dfrac{35}{7} = 5$ kmph

Speed of the river $= \dfrac{1}{2}$ (downstream speed - upstream speed)

$= \dfrac{1}{2}(9 - 5) = \dfrac{1}{2} \times 4 = 2$ kmph

55. (5); Two sides are 7 cm and 5 cm,

Perimeter = 16 cm

$\therefore$ Third side = 16 – (7 + 5) = 4 cm

Now, s $= \dfrac{16}{2} = 8$ cm

$\therefore$ Area $= \sqrt{s(s-a)(s-b)(s-c)}$

$= \sqrt{8(8-7)(8-5)(8-4)}$

$= \sqrt{8 \times 1 \times 3 \times 4} = \sqrt{96}$ cm²

56. (5); The student can attempt either of the two internal questions or can leave it entirely. So there are 3 ways of dealing with one question and 3^{12} ways of dealing with 12 questions. But this includes the case that the student will leave out all the problems. So the correct option is $3^{12} - 1$.

57. (2); Total multiples of 4 from 1 to 56 are 14, eg, 4, 8, 12 and so on.

$\therefore$ Reqd probability $= \dfrac{14}{56} = \dfrac{1}{4}$

58. (5); Let the original number of males be M and females be F.

Then, $\dfrac{M}{F} = \dfrac{6x}{7x}$

Now, $\dfrac{7x + 4}{6x - 3} = \dfrac{4}{3}$

$\therefore$ x = 8

M = 48, F = 56

59. (3); Let the population of the city be x 3 years before.

Then, $x \times \dfrac{110}{100} \times \dfrac{110}{100} \times \dfrac{110}{100} = 266200$

$\therefore$ x = 200000

60. (1); Let the actual SP be Rs. 130.

Loss = 10%

Trader's SP $= \dfrac{9}{13} \times 130 = 90$

Then, $\dfrac{CP - 90}{CP} \times 100 = 10$

$\therefore$ CP = Rs. 100

If he sells it at actual SP,

$\therefore$ Profit % $= \dfrac{130 - 100}{100} \times 30 = 30\%$

61. (3); Let the sum be P.

Then, $\dfrac{P \times 37 \times 6}{100} - \dfrac{P \times 33 \times 6}{100} = 54$

$\therefore$ P = Rs. 225

62. (2); Average age of 6 children = 15 years

$\therefore$ Total age = $15 \times 6 = 90$ years

The two children who left are aged (15 + 3 =) 18 and (15 + 5 =) 20 years respectively.

$\therefore$ Sum of ages of the two children = 38 years

Total of remaining 4 children = 90 – 38 = 52 years

According to the question,

New 4 children of average age (15 + 4) = 19 joined.

$\therefore$ Total age = $19 \times 4 = 76$ years.

Total age of 8 children = 52 + 76 = 128 years

$\therefore$ Average $= \dfrac{128}{8} = 16$ years

63. (3); We have ratio of profits of Rohit, Indira and Anamika = 3 : 4 : 5

Ratio of periods of time = 1 : 2 : 5

$\therefore$ Reqd ratio $= \dfrac{3}{1} : \dfrac{4}{2} : \dfrac{5}{5} = 3 : 2 : 1$

Thus, Rohit, Indira and Anamika invested their capital in the ratio of 3 : 2 : 1

64. (5); One day's work

$A + B + C = \dfrac{1}{8}$ ...(i)

Also, 6A + 12B + 12C = 1 (total work)

or, 6(A + B +C) + 6(B + C) = 1

or, $6\left(\dfrac{1}{8}\right) + 6(B + C) = 1$

or, $6(B + C) = 1 - \dfrac{3}{4} = \dfrac{1}{4}$

$\therefore$ B + C $= \dfrac{1}{24}$ ...(ii)

Putting value of (ii) in (i), we get

$A = \dfrac{1}{8} - \dfrac{1}{24} = \dfrac{3-1}{24} = \dfrac{2}{24} = 12$ days

Hence, A alone can complete the work in 12 days.

65. (5); $S_a : S_b = 1 : 4$

Ratio of distance travelled = 1 : 4

4x = 40

$\therefore$ x = 10

Total distance 5x = 50 kma

66. (3); Expense on Food in June $= \dfrac{12000 \times 40}{100} = $ Rs. 4800

Expense on Food in July $= \dfrac{18000 \times 42}{100} = $ Rs. 7560

$\therefore$ Reqd% $= \dfrac{7560 - 4800}{4800} \times 100 = 57.5\%$

67. (2); Total expenses on Entertainment in both the months

$= \dfrac{12000 \times 9}{100} + \dfrac{18000 \times 6}{100} = 1080 + 1080 = $ Rs. 2160

68. (3); Expense on clothes in July $= \dfrac{18000 \times 22}{100} = $ Rs. 3960

Expense on School fees in June $= \dfrac{12000 \times 11}{100} = $ Rs. 1320

$\therefore$ Reqd% $= \dfrac{3960 - 1320}{1320} \times 100 = 200\%$

69. (4); Expense on Rent in July $= \dfrac{18000 \times 22}{100} = $ Rs. 3960

Expense on Cloths in June $= \dfrac{12000 \times 20}{100} = $ Rs. 2400

$\therefore$ Reqd% $= \dfrac{3960 - 2400}{2400} \times 100 = 65\%$

70. (5); Average

$$= \dfrac{\dfrac{18000 \times 6}{100} + \dfrac{18000 \times 22}{100} + \dfrac{12000 \times 40}{100} + \dfrac{12000 \times 20}{100}}{4}$$

$$= \dfrac{1080 + 3960 + 4800 + 2400}{4} = \dfrac{12240}{4} = \text{Rs. } 3060$$

71. (1); 72. (4); 73. (3); 74. (5); 75. (4)

76-80. **EBFCAD**

      76. (2); 77. (3); 78. (1); 79. (2); 80. (5)

81. (3); Substitute *"was to go"*.

82. (1); Substitute *anger*

83. (3); Substitute *had* for *were*

84. (5); 85. (2); Substitute *ever - growing*

86. (2); See the last sentence of the third para.

87. (4); Read the last two paras carefully.

88. (1); See the second sentence from the end of the fourth para.

89. (3); (2) is quite close but is dependent on (3).

90. (4); It was 284 ppm in the pre - industrial era and is more than 380 ppm at present.

91. (4); Read the second para *in toto*.

92. (5); To examine the impact of EU - lilke cuts on the world's climate

93. (2); 94. (3); 95. (2); 96. (1); 97. (1); 98. (3); 99. (5); 100. (2)