

MARUTHI SCHOOL OF BANKING

No Formula Only Shortcuts

IBPS PO (PT) - I

Test-I: English Language

Directions (Q. 1-10): Read the following passage carefully and answer the questions. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

The government wants the NITI Aayog to evaluate World Bank assisted projects in India for an independent assessment of their impact, an exercise it believes will help build capacity in the new think tank and **enhance** its credibility besides raising its stature internationally. The finance ministry has written to the Aayog, which replaced the decades-old Planning Commission this year, to **explore** the possibility of evaluating programmes which are financially supported by the World Bank.

Monitoring and evaluation is one of the key tasks of the Aayog and the government is in the process of reconstituting the Programme Evaluation Organisation of the erstwhile Planning Commission as the Development Monitoring and Evaluation Office to **undertake** evaluation of all flagship schemes of the Centre.

“The ministry wants NITI Aayog to undertake evaluation of World Bank funded programmes, which were until now evaluated by the World Bank itself. The idea is to ensure independent and unbiased evaluation of these programmes,” said the official, requesting not to be identified. “This will also help raise the stature of the government's premiere think tank if it delivers international quality reports in a time-bound manner.”

The proposal is to kick-start the evaluation exercise immediately after the restructuring of the institution is over so as to be able to deliver the first report by the middle of next year. World Bank is currently supporting over 100 projects in India, ranging from few crore rupees to several thousand crore rupees under various stages, the key being the **dedicated** freight corridors, the national rural livelihood mission and the Pradhan Mantri Gramin Sadak Yojana, besides state-run social sector programmes.

Under its Partnership Strategy for India (2013-17), World Bank will help India lay the foundation for achieving faster, sustainable and more inclusive growth through an integrated package of financing, advisory services and knowledge.

Between July 2013 and June 2014, the World Bank's financial year, funding for India stood at \$5.2 billion. This included \$2 billion in International Bank for Reconstruction

and Development, \$3.2 billion in International Development Association and \$0.1 billion in Clean Technology Fund across 16 projects. Although evaluation is among the key **mandates** of the Aayog, it is yet to assess any programme due to the delay on part of the Prime Minister's Office in finalising the role and structure of the institution that will evaluate government-run schemes.

- Which of the following statements is not true in the context of the passage?
 - The World Bank is supporting several projects in India except state-run social sector programmes.
 - During last financial year of the World Bank the funding for India stood at \$5.2 billion.
 - The World Bank will help India in achieving sustainable and more inclusive growth.
 - NITI Aayog has decided to undertake evaluation of World Bank funded programmes.
 - None of these
- An independent assessment of the World Bank funded projects in India by NITI Aayog would
 - pay the way for research
 - help enhance its credibility
 - raise its stature internationally
 - Only (A) and (B)
 - Only (B) and (C)
 - Only (A) and (C)
 - All (A), (B) and (C)
 - Only (B)
- The expression 'kick start' means
 - to operate a device by a downward kick on a pedal
 - to provoke
 - to reinvigorate
 - to pause for a while and then start
 - to stop immediately
- The key task of NITI Aayog is to
 - restructure the financial institutions
 - submit reliable report to the government of India regarding the functioning of the RBI and the SEBI.
 - protect any projects from getting delayed
 - supervise and appraise government sponsored programmes
 - seek financial assistance from the World Bank.
- Which of the following statement is true in the context of the passage?
 - NITI Aayog will support over 100 projects in India.
 - The Programme Evaluation Organisation of the erstwhile Planning Commission will be replaced by the Development Monitoring and Evaluation Office.

(C) The World Bank has outright rejected India government's request for financial help to complete its mega projects

- 1) Only (A) 2) Only (B)
3) Only (C) 4) Only (A) and (B)
5) All (A), (B) and (C)

Directions (Q. 6-8): Choose the word which is MOST SIMILAR in meaning to the word/group of words printed in bold as used in the passage.

6. **Explore**

- 1) deprecate 2) deplore 3) search
4) censure 5) approve

7. **Dedicated**

- 1) constituted 2) perceived 3) rejected
4) committed 5) approved

8. **Mandates**

- 1) imperatives 2) factors 3) branches
4) vetoes 5) opinion

Directions (Q. 9-10): Choose the word which is MOST OPPOSITE in meaning of the word printed in bold as used in the passage.

9. **Enhance**

- 1) augment 2) upgrade 3) improve
4) exalt 5) worsen

10. **Undertake**

- 1) commence 2) forgo 3) guarantee
4) venture 5) tackle

Directions (Q. 11-15): Read each sentence to find out whether there is any grammatical 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. If there is 'No error', the answer is 5. (Ignore errors of punctuation, if any.)

11. 1) Troops from India and China will for the first time meet / 2) in a joint military exercise on the heavily manned / 3) disputed boarder that has the reason / 4) for several aimed face-offs between the two neighbours. / 5) No error
12. 1) The bill will have / 2) no effect on the juvenile offender / 3) as it will have no / 4) retrospective effect. / 5) No error
13. 1) Falling rates appear to be prompting a shift / 2) from traditional bank terms deposits to alternate investment / 3) avenues including tax free bonds and / 4) select mutual fund debt schemes. / 5) No error
14. 1) Kiwis have become most popular / 2) in recent year, especially due to / 3) the belief that it helps / 4) dengue patients recover faster. / 5) No error
15. 1) For three years, Australian cattle abattoirs have worked / 2) around the clock slaughtering record numbers of animals / 3) to supply to the world market, breaking only / 4) for few days over Christmas. / 5) No error

Directions (Q. 16-20): Each question below has two blanks, each blank indicating that something has been

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

16. The banking sector in the country remained _____ in the public sector with the PSBs accounting for 72.1% of the total banking sector assets _____ a gradual decline in their share in recent years.
- 1) absolute, after
2) predominant, notwithstanding
3) governing, against
4) prevalent, despite
5) prominent, while
17. While profits of the banking sector turned _____ from an absolute decline in the previous year, the positive growth was on _____ of a decline in the growth of operating expenses.
- 1) around, account 2) over, spot
3) out, score 4) up, back
5) off, top
18. Karnataka Bank Ltd, in _____ with universal Sampo General Insurance Company, has _____ a group, personal accident insurance scheme named KBL Suraksha.
- 1) affiliation, floated 2) alliance, commenced
3) combination, began 4) association, launched
5) partnership, evoked
19. Researchers believe their new multi level authentication system GOTPass can be _____ in _____ personal online information from hackers.
- 1) productive, guarding 2) emphatic, conserving
3) effective, protecting 4) energetic, fostering
5) impotent, attacking
20. Banks expect credit growth to pick up _____ this financial year after _____ to an almost two-decade low as consumer confidence grows.
- 1) moderately, falling 2) enough, rising
3) fairly, improving 4) gently, increasing
5) slightly, settling

Directions (Q. 21-25): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) Many of us, stock up properties, for our children's future, to ensure that they will be happy with the wealth, even if we aren't around.
- (B) When a drop of water falls into a thirsty throat, life comes alive all over again.
- (C) Water is the most precious boon, nature has given us.
- (D) But how many of us are using water responsibly?
- (E) Even now, we see states fighting for water.
- (F) How will they be happy, if we send them into a future with no water.

21. Which of the following would be the **FIRST** sentence after rearrangement?
1)C 2)A 3)B 4)D 5)E
22. Which of the following would be the **SECOND** sentence after rearrangement?
1)D 2)C 3)B 4)A 5)F
23. Which of the following would be the **THIRD** sentence after rearrangement?
1)E 2)F 3)A 4)B 5)D
24. Which of the following would be the **FOURTH** sentence after rearrangement?
1)F 2)A 3)E 4)D 5)C
25. Which of the following would be the **LAST (SIXTH)** sentence after rearrangement?
1)A 2)D 3)C 4)E 5)B

Directions (Q. 26-30): In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.

The Supreme Court has ruled that the Reserve Bank of India (RBI) and commercial banks must reveal the names of defaulters to people seeking such information under the Right to Information Act (RTI). On the (26) of it, this (27) fair to citizens. But the regulator seems to be getting a raw deal. The RTI Act is meant to reveal reasons that inform policymaking. A citizen can seek (28) on what the government proposes to do about something of vital interest to her. Banks collect deposits from the public and are accountable to the RBI for the prudent use of such deposits. It would be (29) to expect any citizen who seeks information from banks on, say, their inspection reports to (30) the financial strength of the bank or the efficiency of its operations.

26. 1) face 2) verge 3) aspect
4) back 5) display
27. 1) occurs 2) comes 3) shows
4) sounds 5) accents
28. 1) solution 2) clarifications 3) exposition
4) interpretation 5) description
29. 1) skeptical 2) innocuous 3) candid
4) wise 5) naive
30. 1) gauge 2) access 3) assess
4) excess 5) express

Test-II: Reasoning Ability

Directions (Q. 31-34): Study the following information carefully and answer the questions given below:

Five students A, B, C, D and E have a total five books on subjects – Physics, Chemistry, Maths, Biology and English written by – Gupta, Khanna, Harish, Sharma and Edwin. Each student has only one book on one of the five subjects.

Gupta is the author of Physics which is not owned by

E or A. D owns the book written by Edwin. C owns the book on Maths. E has the book on English which is not written by Khanna. The book on Biology is written by Sharma.

31. Who among the following is the author of the book on Chemistry?
1) Edwin 2) Harish 3) Gupta
4) Can't be determined 5) None of these
32. Who among the following has a book on Biology?
1) A 2) B 3) C 4) D 5) E
33. Who among the following is the owner of the book written by Harish?
1) A 2) B 3) C
4) Can't be determined 5) None of these
34. Which of the following combinations is correct?
1) Physics – Gupta – A 2) Chemistry – Edwin – D
3) Maths – Harish – C 4) English – Edwin – E
5) Physics – Gupta – D

Directions (Q. 35-37): Study the following information carefully and answer the questions given below:

B is grandson of E, who is not mother of P. D is wife of P, who is father of B. C is mother of S, who is brother of P.

35. How is E related to S?
1) Father 2) Grand father 3) Mother
4) Can't be determined 5) None of these
36. How is B related to C?
1) Son 2) Grand son 3) Daughter
4) Grand daughter 5) None of these
37. How is S related to D?
1) Brother 2) Son-in-law 3) Son
4) Brother-in-law 5) None of these

Directions (Q. 38-42): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

- 1) if only conclusion I is true
 - 2) if only conclusion II is true
 - 3) if either conclusion I or II is true
 - 4) if neither conclusion I nor II is true
 - 5) if both conclusions I and II are true
38. **Statements:** $T \geq P \geq N = S < R < Q; L < P$
Conclusions: I. $T > L$ II. $L \geq Q$
 39. **Statements:** $M \leq R \leq N = B; N < S \leq K$
Conclusions: I. $K > R$ II. $M < S$

(40-41):

- Statements:** $W > U \geq X = P \leq M \leq J; B \leq U = T$
40. **Conclusions:** I. $W > T$ II. $J > U$
41. **Conclusions:** I. $B \geq P$ II. $M \leq W$
42. **Statements:** $G \geq H > K \geq L; Q \leq R < L$
Conclusions: I. $G > R$ II. $H > Q$

Directions (Q. 43-47): In each question below are given three statements followed by two conclusions numbered I and II. 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 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.

(43-44):

Statements: Some goals are ranks.
No goal is a game.
All games are players.

43. **Conclusions:** I. Some ranks are definitely not games.
II. All ranks being goals is a possibility.

44. **Conclusions:** I. All players are games.
II. At least some players are not goals.

(45-46):

Statements: All files are documents.
Some dictionary are documents.
No picture is a file.

45. **Conclusions:** I. All documents being dictionary is a possibility.
II. Some documents are files.

46. **Conclusions:** I. Some documents are pictures.
II. All files are definitely not picture.

47. **Statements:** All books are pens.
No pen is a copy.
No paper is a book.

Conclusions: I. No pen is a paper.
II. No copy is a book.

Directions (Q. 48-52): Study the following information carefully and answer the question given below:

Eight persons J, K, L, M, N, P, Q and R are sitting around a circular area. Some of the persons are not facing the centre.

Note: Same directions means if one person faces the centre then other person also faces the centre and if one person is facing outward then the other person is also facing outward.

Facing the opposite direction means if one person faces the centre then the other person faces outward and vice-versa.

N sits second to the right of P, who sits on the immediate left of J. The immediate neighbours of R faces opposite directions. Q is not facing the centre. The immediate neighbours of L faces same direction. J is not facing outside but sits third to the left of M. Only one person sits between R and M. Neither Q nor L is an immediate left of R.

N and L both are facing opposite direction. K faces the same direction as P. K sits second to the right of L, who is on the immediate left of P. M sits second to the left of R. N is not the immediate neighbour of L.

48. Who among the following is on the immediate right of N?

1) P 2) Q 3) L 4) J 5) None of these

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

1) R, L 2) K, M 3) N, J 4) P, M 5) N, R

50. Who among the following is an immediate neighbour of J and Q?

1) L 2) N 3) R 4) K 5) None of these

51. Who among the following is opposite L?

1) M 2) J 3) Q 4) K 5) None of these

52. How many persons are facing the centre?

1) Two 2) Three 3) Four 4) Five 5) None of these

Directions (Q. 53-57): Study the following information carefully and answer the questions given below:

In a certain code 'all are going market' is written as 'sit ha pit zo', 'market is too far' is written as 'ch fa jo zo', 'he is not going' is written as 'pit ch la na' and 'not far for all' is written as 'jo na ha sa'.

53. What is the code for 'going'?

1) pit 2) sit 3) na 4) la 5) None of these

54. What does 'zo' stand for

1) going 2) too 3) market

4) far 5) None of these

55. What is the code for 'he is far'?

1) na ch jo 2) la ch jo 3) ch na sa
4) Can't be determined 5) None of these

56. What is the code for 'too'?

1) jo 2) fa 3) sa

4) ch 5) None of these

57. 'sa zo na' is the code for which of the following?

1) not for market 2) he is far 3) ball are going

4) Can't be determined 5) None of these

Directions (Q. 58-62): Study the following information carefully and answer the questions given below:

Seven friends E, G, H, I, J, K and L live on a different floor of a building but not necessarily in the same order.

E does not live above G, who does not live on an odd numbered floor. There is only one person between K and J. K does not live above H. L does not live on topmost floor. H lives below two persons but does not live below either J or K. J does not live above the floor on which K lives.

58. Who among the following lives on the third floor?

1) L 2) I 3) E

4) Can't be determined 5) None of these

59. Which of the following groups lives on even numbered floors?

1) G, K, L 2) G, K, J 3) L, E, I

4) E, J, H 5) None of these

60. How many persons live between the floor on which I and J live?

1) Two 2) Three 3) Four

4) Five 5) None of these

61. If E lives just below K then who among the following lives one floor no. 1?
1) I 2) L 3) J 4) H 5) None of these
62. Which of the following statements is/are true?
1) G lives on third floor.
2) K lives just below L.
3) There is only one person between G and H.
4) None is true
5) None of these
- Directions (Q. 63-65): Study the following information carefully and answer the questions given below:**
Six friends A, B, C, D, E and F have a different number of pens. The person who has least no. of pens is not C. The person who has the second highest number of pens has 18 pens. D has more pen than only E and C. B has more pens than A but less than F. D has 5 pens less than B. 7 is the least number of pens.
63. Who among the following has the least number of pens?
1) A 2) C 3) F 4) E 5) None of these
64. How many pens does A have?
1) 10 2) 17 3) 12 4) 11 5) None of these
65. Who among the following has the highest number of pens?
1) F 2) A 3) B 4) C 5) None of these
75. 2 4 12 48 ? 1440 10080
1) 230 2) 280 3) 260 4) 460 5) 240
76. If the product of two successive positive integers is 7482 then, which is the greater integer?
1) 87 2) 82 3) 84 4) 89 5) None of these
77. One-seventh of a number is 51. What will be 64% of that number?
1) 248.12 2) 228.48 3) 238.24
4) 198.36 5) None of these
78. 48% of the first number is 60% of the second number. What is the ratio of the first number to the second number?
1) 4 : 7 2) 3 : 4 3) 5 : 4
4) Can't be determined 5) None of these
79. The simple interest accrued on an amount of ₹12450 at the end of 6 years is ₹8964. What is the rate of interest per year?
1) 8% 2) 14% 3) 10% 4) 12% 5) None of these
80. What is the compound interest accrued on an amount of ₹12000 at the rate of 9% per annum at the end of 2 years?
1) ₹2545 2) ₹2257.20 3) ₹2986
4) ₹2775.40 5) None of these
81. The owner of a television shop charges his customer 16% more than the cost price. If a customer paid ₹16588 for a television set, then what was the cost price of the television set?
1) ₹14300 2) ₹15500 3) ₹13800
4) ₹12000 5) None of these

Test-III: Quantitative Aptitude

Directions (Q. 66-70): What should come in place of question mark (?) in the following questions?

66. $[(4)^3 \times (5)^4] \div (4)^5 = ?$
1) 30.0925 2) 39.0625 3) 35.6015
4) 29.0825 5) None of these
67. $8195 \div 745 + ? \times 12 = 7847$
1) 648 2) 593 3) 601 4) 653 5) None of these
68. $7\frac{2}{7}$ of $189 + 452 = 2000 - ?$
1) 183 2) 164 3) 170 4) 198 5) None of these
69. $(45)^2 + (21)^2 = (?)^2 + 257$
1) 51 2) 49 3) 45 4) 47 5) None of these
70. $65\% \text{ of } 400 + \sqrt{?} = 44\% \text{ of } 800 - 12\% \text{ of } 400$
1) 1936 2) 44 3) 2115 4) 46 5) None of these

Directions (Q. 71-75): What will come in place of question mark (?) in the following number series?

71. 8 5 7 13.5 ? 82.5 253.5
1) 30 2) 31 3) 34 4) 38 5) 32
72. 17 29 53 89 137 ? 269
1) 180 2) 187 3) 197 4) 208 5) 173
73. 56 65 90 139 220 341 ?
1) 480 2) 490 3) 410 4) 510 5) 460
74. 1080 542 27.3 138.5 71.25 ? 20.8125
1) 36.125 2) 37.25 3) 37.625 4) 32.625 5) 40.125

ie $17 + 12 = 29$, $29 + 24 = 53$, $53 + 36 = 89$,
 $89 + 48 = 137$, $137 + 60 = 197$, $197 + 72$
 $= 269$, ...

73. 4; The series is $+3^2$, $+5^2$, $+7^2$, $+9^2$, $+11^2$,
 $+13^2$, ...

ie $56 + 3^2 = 65$, $65 + 5^2 = 90$, $90 + 7^2 = 139$,
 $139 + 9^2 = 220$, $220 + 11^2 = 341$, $341 + 13^2$
 $= 510$, ...

74. 3; The series is $+2 + 2$, $+2 + 2$, repeated
 $1080 \div 2 + 2 = 542$, $542 \div 2 + 2 = 273$, 273
 $\div 2 + 2 = 138.5$, $138.5 \div 2 + 2 = 71.25$,
 $71.25 \div 2 + 2 = 37.625$, ...

75. 5; The series is $\times 2$, $\times 3$, $\times 4$, $\times 5$, $\times 6$, ...
 $2 \times 2 = 4$, $4 \times 3 = 12$, $12 \times 4 = 48$, $48 \times 5 =$
240, $240 \times 6 = 1440$, $1440 \times 7 = 10080$, ...

76. 1; Let the two successive positive integers
be x and $x + 1$

Then, $x(x + 1) = 7482$

or, $x^2 + x - 7482 = 0$

or, $x^2 + 87x - 86x + 7482 = 0$

or, $(x + 87)(x - 86) = 0$

$\therefore x = 86$ (Ignore negative value)

Hence the greater positive integer is 87.

77. 2; Let the number be x .

Then, $\frac{1}{7}$ of $x = 51$

$\therefore x = 51 \times 7 = 357$

$\therefore 64\%$ of $357 = 228.48$

78. 3; Let the first number be x and the
second number be y

Then, 48% of $x = 60\%$ of y

or, $\frac{x \times 48}{100} = \frac{60 \times y}{100}$

or, $\frac{x}{y} = \frac{60 \times 100}{48 \times 100} = \frac{5}{4}$

\therefore Reqd ratio = $5 : 4$

79. 4; SI = 8964 and T = 6 years

P = 12450

Then, rate = $\frac{8964 \times 100}{12450 \times 6} = 12\%$

80. 2; Compound interest

$= 12000 \left(1 + \frac{9}{100}\right)^2 - 12000$

$= \frac{12000 \times 109 \times 109}{100 \times 100} - 12000$

$= 14257.20 - 12000 = ₹2257.20$

81. 1; Let the cost price of the television set
be ₹ x

Then, $x + 16\%$ of $x = 16588$

or, $x + \frac{x \times 16}{100} = 16588$

or, $x \left(\frac{116}{100}\right) = 16588$

$\therefore x = \frac{16588 \times 100}{116} = ₹14300$

82. 4; Let their age be $11x$ and $5x$ years
respectively.

Then, average age = $\frac{11x + 5x}{2} = 8x$ years

Now, $8x = 48$

$\therefore x = 6$

Their age are $(11 \times 6) = 66$ years and (5×6)
 $= 30$ years

After 6 years the ratio of their ages will be

$= \frac{66 + 6}{30 + 6} = \frac{72}{36} = 2 : 1$

83. 2; The cost of (20 folders + 15 pens) is
₹995.

The cost of $\frac{3}{5}$ (20 folders + 15 pens)

$= 995 \times \frac{3}{5} = 597$

Hence, the cost of 12 folders + 9 pens
= ₹597

84. 1; Let A, B, C and D get $4x$, $6x$, $11x$ and
 $13x$ respectively.

Now, $11x = 7854$

$\therefore x = \frac{7854}{11} = ₹714$

Amount received by B and D together

$= 6x + 13x = 19x$

$= 19 \times 714 = ₹13566$

85. 5; Minutes Page Men

8	1	1
60	1710	?

\therefore Men = $\frac{8 \times 1710 \times 1}{60} = 228$

86. 1; The marks obtained by Meera in

subjects = $\frac{100 \times 60}{100} + \frac{80 \times 40}{100} + \frac{130 \times 50}{100}$

$+ \frac{150 \times 90}{100} + \frac{120 \times 90}{100} + \frac{80 \times 60}{100}$

$= 60 + 32 + 65 + 135 + 108 + 48 = 448$

87. 4; The marks obtained by all seven
students in History

$= \frac{40}{100} (80 + 70 + 70 + 60 + 90 + 60 + 80)$

$= \frac{40}{100} \times 510 = 204$

\therefore Average marks = $\frac{204}{7} = 29.14$

88. 2; Only two students, Kunal and Soni
have got 60% or above marks in all subjects.

89. 3; Total marks obtained by Kunal

$= \frac{60 \times 90}{100} + \frac{40 \times 70}{100} + \frac{130 \times 60}{100} + \frac{150 \times 90}{100} +$

$\frac{120 \times 70}{100} + \frac{80 \times 70}{100}$

$= 54 + 28 + 78 + 135 + 84 + 56 = 435$

Total marks obtained by Kunal

$= 60 + 40 + 130 + 150 + 120 + 80 = 580$

\therefore Reqd % = $\frac{435}{580} \times 100 = 75\%$

90. 1; Sect from graph

91. 1; There are six letter in the word
INHALE.

\therefore Reqd number of ways = $6!$

$= 1 \times 2 \times 3 \times 4 \times 5 \times 6 = 720$

92. 2; The number 8115 lies between square
of 90 and 91

$\therefore 91^2 = 8281$

\therefore Reqd number = $8281 - 8115 = 166$

Hence if we add 166 to the 8115 then it
become a perfect square.

93. 4; I. $3x^2 - 8x = 16$

or, $3x^2 - 8x - 16 = 0$

or, $3x(x - 4) + 4(x - 4) = 0$

or, $(3x + 4)(x - 4) = 0$

$\therefore x = -\frac{4}{3}, 4$

II. $4y^2 - 7y - 11 = 0$

or, $4y^2 - 11y + 4y - 11 = 0$

or, $4y(y + 1) - 11(y + 1) = 0$

or, $(4y - 11)(y + 1) = 0$

$\therefore y = \frac{11}{4}, -1$

Hence relationship can't be established.

94. 5; I. $3x^2 + 20x + 28 = 0$

or, $3x^2 + 14x + 6x + 28 = 0$

or, $3x(x + 2) + 14(x + 2) = 0$

or, $(3x + 14)(x + 2) = 0$

$\therefore x = -\frac{14}{3}, -2$

II. $4y^2 + 23y + 33 = 0$

or, $4y^2 + 12y + 11y + 33 = 0$

or, $4y(y + 3) + 11(y + 3) = 0$

or, $(4y + 11)(y + 3) = 0$

$\therefore y = -\frac{11}{4}, -3$

Hence relationship can't be established
between x and y .

95. 1; I. $2x^2 - 11x + 15 = 0$

or, $2x^2 - 6x - 5x + 15 = 0$

or, $2x(x - 3) - (x - 5) = 0$

or, $(2x - 5)(x - 3) = 0$

$\therefore x = \frac{5}{2}, 3$

II. $y = 2\sqrt{y}$

Squaring both sides, we get

$y^2 = 4y$

$\therefore y = 4$

Hence $x < y$

96. 3; Let the radius of the circular jogging
track be r metres

Then area = πr^2

$\therefore \pi r^2 = 3850$

or, $\frac{22}{7} r^2 = 3850$

or, $r^2 = 1225$

$\therefore r = 35$

\therefore Circumference of jogging track = $2\pi r$

$= 2 \times \frac{22}{7} \times 35 = 220$ metres

97. 3; $783 \times 869 = 680427$

98. 1; Total number of candles = $15 \times 12 \times$
 $39 = 7020$

99. 5; Let the SP be ₹ x

$\therefore 75\%$ of $x = 1545$

$\therefore x = \frac{1545 \times 100}{75} = ₹2060$

100. 3; Let the profit % be a and loss % = b

$\therefore a + b + \frac{ab}{100}$

$\therefore 10 + (-10) + \frac{(10)(-10)}{100}$

$= 10 - 10 - \frac{100}{100} = -1$

\therefore Loss = 1%