1. (C)
2. (C)
3. (D)
4. (A)
5. (A)

6. (D)

7. (C)

8. (B)

9. (E)

10. (C)

11. (B)
   I. A > H (False)
   II. E < D (True)

12. (A)
   I. F ≥ L (True)
   II. F ≥ D (False)

13. (E)
   I. M < D (True)
   II. B > U (True)

14. (D)
   I. D < A (False)
   II. A ≥ D (False)

15. (C)
   I. K > P (False)
   II. P ≥ K (False)

16. (A)
   1) 10th element from the left end i.e ‘9’
   2) 4th to the right of the 10th element from the left end i.e ‘5’.

17. (D)
   & VS. $17, *07

18. (E)
(19-21)

19. (A)
20. (C)
21. (B)

22. (D)
23. (A)
24. (B)
25. (B)

(26 – 28)

26. (A)
27. (B)
28. (B)

(29-30)

29. (C)
30. (C)

(31-35)

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31. (A) 
32. (B) 
33. (C) 
34. (E) 
35. (E) 

(36-40) 
36. (C) \(17 \times 2 + 4 = 38\) 
38 \times 2 + 4 = 80 
80 \times 2 + 4 = 164 \neq 168 
164 \times 2 + 4 = 332 
332 \times 2 + 4 = 668 
668 \times 2 + 4 = 1340 

37. (C) \(2 + 3.5 = 5.5\) 
5.5 + 3.5 = 9 \neq 9.5 
9 + 3.5 = 12.5 
12.5 + 3.5 = 16 

38. (A) \(1 + 2^2 = 5 \neq 6\) 
5 + 3^2 = 14 
14 + 5^2 = 39 
39 + 7^2 = 88 
88 + 11^2 = 209 

39. (C) \(41 + 4 = 45\) 
45 + 9 = 54 
54 + 16 = 70 \neq 72 
70 + 25 = 95 

40. (E) \(4913 + 17^2 = 5202\) 
5202 - 19^2 = 4841 
4841 + 21^2 = 528 \neq 5284 
5282 + 23^2 = 4753 
4753 + 25^2 = 5378 

(41-45) 
41. (C) Required% = \(\frac{300 - 240}{300} \times 100\) 
= \(\frac{60}{300} \times 100\) 
= 20% 

42. (D) Required% = \(\frac{230 + 320}{250} \times 100\) 
= 220% 

43. (A) Required Average 
= \(\frac{180 + 230 + 320 + 360 + 120}{5}\) 
= \(\frac{1210}{5}\) = 242 

44. (D) Required Ratio = \(\frac{230 + 360}{300 + 240} = \frac{590}{540} = 59:54\) 

45. (A) Required % 
= \(\frac{(360 + 300) - (120 + 240)}{(120 + 240)} \times 100\) 
= \(\frac{660 - 360}{360} \times 100\) 
= \(\frac{300}{360} \times 100\) 
= \(\frac{250}{3}\) 
= 83\frac{1}{3}% 

46. (E) Let no. of employee be x and initial average age be y years. 
Total initial age of all employees was xy years. 
The no. employee in the office decreased ratio = 7 : 6 
After reduction, The no of employees would be \(\frac{6x}{7}\) ... (i) 
Increased age After reduction of employee number = \(\frac{22y}{21}\) ... (ii) 
Total changed age of employees = \(\frac{6x}{7} \times \frac{22y}{21}\) = \(\frac{132xy}{147}\) 
Initial Age : Changed Age = \(\frac{\frac{132xy}{147}}{xy}\) 
= 147 : 132 
= 49 : 44 

47. (C) Total distance = 300 + 150 = 450 m 
Speed = 60km/h = 60 \times \frac{5}{18} = \frac{50}{3} m/sec 
Distance = S \times T 
450 = \(\frac{50}{3} \times T\) 
T = \(\frac{450 \times 3}{50}\) 
Time = 9 \times 3 = 27 sec 

48. (D) Pipe A Pipe B 
10 15 
In 1 Hour 
A B 
\(\frac{1}{10} + \frac{1}{15} = \frac{25}{10 \times 15} = \frac{1}{6}\) 
Together they can fill \(\frac{1}{6}\) Part of a tank.
4 Hours = $4 \times \frac{1}{6} = \frac{2}{3}$

49. (D) Let $r$ be radius of circular playground

$$2\pi r = 308$$

$$\frac{22}{7} \times r = 154$$

$$r = 154 \times \frac{7}{22} = 49$$

Area of the circle = $\pi r^2$

$$= \frac{22}{7} \times 49 \times 49$$

$$= 7546$$

Area of circle with Path = $\pi (r + 7)^2$

$$= \frac{22}{7} \times 56 \times 56$$

$$= 9856$$

Area of circle with path = $9856 - 7546 = 2310 \text{ sqm.}$

50. (B) Average of $n$ quantities

$$= \frac{\text{Sum of } n \text{ quantities}}{n}$$

Age of girl remaining 20 girls

$$= (60 \times 20) - (20 \times 16 + 20 \times 24)$$

$$= 1200 - (320 + 48)$$

$$= 1200 - 800$$

$$= 400$$

Age of remaining 20 Girls = $\frac{400}{20} = 20 \text{ years}$

51. (B) $\frac{45}{100} \times 80 + \sqrt{841} + x^2 = 2121 + 21$

$$= 36 + 29 + x^2 = 101$$

$$= x^2 = 36$$

$$= x = 6$$

52. (C) $\frac{36 + 3x}{23} + 1 = 52$

$$= 36 + 3x + 23 = 52 \times 23$$

$$= 3x + 59 = 1196$$

$$3x = 1196 - 59$$

$$x = \frac{1137}{3} = 379$$

53. (C) $\frac{343}{2} + \frac{175}{100} \times 350 = x^2$

$$x^2 = 171.5 + 612.5$$

$$x^2 = 784$$

$$x = 28$$

54. (D) $23(24 + 47 - 54) = x$

$$x = 23 \times 17$$

$$x = 391$$

55. (C) $\frac{6}{5} \times 650 + 320 + 51 = x$

$$= 780 + 320 + 51 = x$$

$$x = 1151$$

56. (A) $x = 11 + 12 - 13 - 4 \left( \frac{2}{9} + \frac{2}{9} - \frac{1}{4} \right)$

$$= 6 + \left( \frac{8 + 8 - 8 - 9}{36} \right)$$

$$= \frac{535}{36}$$

57. (B) $x = 10288 - 5220 - 1375 + 5364$

$$x = 9057$$

58. (D) $x \times \frac{1350}{112.5} = 77 + 91$

$$x \times 12 = 168$$

$$x = 14$$

59. (B) $\frac{18750}{\sqrt{x}} = 36 \times 11 + 59 \times 6$

$$\frac{18750}{\sqrt{x}} = 396 + 354$$

$$\sqrt{x} = \frac{18750}{750} = 25$$

$$x = 625$$

60. (E) $3^3 = \frac{729}{243} \times \frac{216 \times 72}{576} = 81$

$$3^3 = 3^4$$

$$x = 4$$

61. (E) I. $a = \frac{13}{5}$, $a = \frac{-1}{2}$

II. $b = \frac{-3}{5}$, $b = \frac{1}{4}$

62. (E) I. $a = 10$, $a = -10$

II. $b = 0$, $b = 76$

63. (B) I. $a = \frac{-2}{11}$, $a = \frac{5}{2}$

II. $b = \frac{-1}{3}$, $b = \frac{-3}{2}$

64. (B) I. $a = 38$, $a = 5$

II. $b = -17$, $b = -20$

65. (B) I. $a = \frac{-10}{3}$, $a = 3$

II. $b = -9$, $b = -11$

66. (C) $= 3000 + 1060 + 3800 + 1000$

$$= 8860$$

67. (A) No. of car loan SBI & BOB = $2050 + 3000 + 4500 + 1050 + 1060 + 2000 = 13660$
No. car loan 2016 & 2017 = 3000 + 10 60 + 3800 + 1000 + 4500 + 2000 + 4000 + 1500 = 20860
Required Ratio = 13660 : 20860
= 683 : 1043

68. (D) Total no. of car loan SBI = 2050 + 3000 + 4500
= 9550 × 120000
= Rs. 1, 14, 60, 00, 000

69. (B) No. of car loan PNB 2017 = 1500
% Defaulsters PNB 2017 = 23
No. of Defaulters PNB 2017
= \frac{23}{100} \times 100 \times 1500
= 345
No. of car loan taken BOB 2016 = 1060
% of defaulters BOB 2017 = 30
No. of defaulters in PNB 2017 = \frac{30}{100} \times 1060 = 318
\therefore Total no. Desired defaulters = 318 + 345 = 663

70. (A) 71. (D) Option D is appropriate word to be filled up in the given sentence.
Garrulous - excessively talkative, especially on trivial matters.
So, Option D is correct answer.

72. (B) Option B is appropriate word to be filled up in the given sentence.
Alacrity - brisk and cheerful readiness.
So, Option B is correct answer.

73. (E) Option E is appropriate word to be filled up in the given sentence.
Nemesis - the inescapable agent of someone’s or something’s downfall.
So, Option E is correct answer.

74. (B) Option B is appropriate word to be filled up in the given sentence.
Slough - a swamp (a piece of wet, spongy land)
So, Option B is correct answer.

75. (A) Option A is appropriate word to be filled up in the given sentence.
Enamoured - be filled with love for.
So, Option A is correct answer.

76. (D) Error lies in the D part of the given sentence. i.e. ‘WERE’ should be used instead of ‘WAS’.
So, Option D is correct answer.

77. (E) There is no error in the given sentence. So, Option E is correct answer.

78. (C) Error lies in the C part of the given sentence. i.e. ‘DOWN’ should be used instead of ‘OUT’.
So, Option C is correct answer.

79. (E) There is no error in the given sentence. So, Option E is correct answer.

80. (D) Error lies in the D part of the given sentence. i.e. ‘anymore’ should be used instead of ‘any more’.
Anymore - has a temporal meaning, expressing still, now, or nowadays.
Any more - has a quantitative meaning, referring to the amount or number of stuff or things under discussion
So, Option D is correct answer.

81. (B) According to the passage, Option B is correct answer.

82. (D) According to the passage, Option D is correct answer.

83. (B) According to the passage, Option B is correct answer.

84. (E) According to the passage, Option E is correct answer.

85. (C) According to the passage, Option C is correct answer.
86. (C) According to the passage, Option C is correct answer.

87. (A) Option A is correct antonym for the given word.
Enhance - intensify, increase, or further improve the quality, value.
Mar - impair the quality or appearance of, spoil.
So, Option A is correct answer.

88. (A) Option A is correct antonym for the given word.
Complex - consisting of many different and connected parts,
Unexacting - not demanding; uncritical; not difficult to satisfy.
So, Option A is correct answer.

89. (E) Option E is correct synonym for the given word.
Iteration - the repetition of a process or utterance.
Repetition - the action of repeating something that has already been said or written.
So, Option E is correct answer.

90. (D) Option D is correct synonym for the given word.
Coordinate - bring the different elements of (organization) into a harmonious or efficient relationship.
Harmonize - make consistent or compatible.
So, Option D is correct answer.

91. (E) According to the passage, Option E is correct answer.
Obstacles - serious problems.
Hurdles - obstacles.

92. (B) According to the passage, Option B is correct answer.
Lagging - failing to keep pace.

93. (D) According to the passage, Option D is correct answer.
Oriented - align or position (something) relative to the points of a compass.

94. (A) According to the passage, Option A is correct answer.

95. (C) According to the passage, Option C is correct answer.
Consistency - stability.

96. (B) Option B is correctly spelt word.
Carp - complain or find fault continually about trivial matters.

97. (D) Option D is correctly spelt word.
Inept - having or showing no skill, clumsy

98. (A) Option A is correctly spelt word.
Yank - pull with a jerk.

99. (C) Option C is correctly spelt word.
Astringent - sharp or severe in manner or style.

100. (E) Option E is correctly spelt word.
Vehemently - in a forceful, passionate, or intense manner; with great feeling.
## ANSWER KEY

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