IBPS PO Preliminary Grand Test –IPP-180919

HINTS & SOLUTIONS

ANSWER KEY

1.(2)	21.(5)	41.(4)	61.(4)	81.(2)
2.(5)	22.(2)	42.(3)	62.(5)	82.(3)
3.(4)	23.(4)	43.(2)	63.(2)	83.(1)
4.(2)	24.(3)	44.(5)	64.(4)	84.(2)
5.(1)	25.(3)	45.(1)	65.(1)	85.(4)
6.(1)	26.(3)	46.(1)	66.(5)	86.(5)
7.(5)	27.(1)	47.(5)	67.(2)	87.(2)
8.(3)	28.(5)	48.(2)	68.(1)	88.(5)
9.(2)	29.(3)	49.(4)	69.(5)	89.(4)
10.(2)	30.(2)	50.(3)	70.(1)	90.(3)
11.(5)	31.(1)	51.(1)	71.(3)	91.(4)
12.(1)	32.(2)	52.(2)	72.(5)	92.(2)
13.(4)	33.(3)	53.(5)	73.(3)	93.(3)
14.(5)	34.(4)	54.(3)	74.(2)	94.(5)
15.(5)	35.(3)	55.(1)	75.(4)	95.(5)
16.(3)	36.(4)	56.(2)	76.(2)	96.(4)
17.(1)	37.(5)	57.(4)	77.(4)	97.(3)
18.(2)	38.(5)	58.(3)	78.(4)	98.(5)
19.(4)	39.(1)	59.(1)	79.(4)	99.(4)
20.(3)	40.(3)	60.(5)	80.(3)	100.(3)

HINTS & SOLUTIONS

1.(2) Refer the first paragraph, "According to data from the Reserve Bank of India (RBI), the rate of growth of the combined exports of software and ITeS fell from 20.8 per cent in 2012-13 to 14.9 per cent in 2014-15 and to a low of 7.3 per cent in 2015-16." Hence only statement (II) is the correct reason.

2.(5) Refer the last few lines of first paragraph, "India's IT industry recorded remarkable growth over a long period because it exploited an outsourcing opportunity by perfecting a global delivery model for software and ITeS based on cheap skilled labour." and the first few lines of second paragraph, "As a result, IT industry revenues grew in double digits, with export earnings accounting for a large share of those revenues. Employment grew rapidly, albeit from a low base and at a lower pace than revenues." Hence all three statements are correct in context of the passage.

3.(4) Refer the first few sentences of the third paragraph, "However, there were a number of features of that model that made it vulnerable to changes in circumstances. To start with, it had a high degree of dependence on exports for growth, with the U.S. accounting for a very large share of those exports..." and the first sentence of the fourth paragraph, "Secondly,

software services (or code writing and customisation of different levels of sophistication) and ITeS, rather than IT products, accounted for an overwhelming share of revenues." Hence both the statements (2) and (3) are correct in context of the passage.

4.(2) Refer the statements, "In 2002-03, 48 per cent of India's exports of IT services was through the medium of a commercial presence on foreign soil and another 13.5 per cent through the presence of natural persons.", "This combination of the characteristics of India's IT success not only gave the industry a position of privilege in the economy but made it the symbol of India's ostensible post-globalisation success." and "To garner those revenues, a workforce with essential IT skills and familiarity with English, communication infrastructure, and the requisite organisation were the necessary ingredients." Hence only statement (II) is true in context of the passage.

5.(1) Refer the first paragraph, "According to data from the Reserve Bank of India (RBI), the rate of growth of the combined exports of software and ITeS fell from 20.8 per cent in 2012-13 to 14.9 per cent in 2014-15 and to a low of 7.3 per cent in 2015-16. Global circumstances combined with the specific nature of India's IT prowess seem to be responsible for this fall." Hence (1) is the correct option in context of the passage.

6.(1) **Prowess** means skill or expertise in a particular activity or field. **Dexterity** means skill in performing tasks, especially with the hands. Hence both are similar in meanings.
Serenity means the state of being calm, peaceful, and untroubled.

7.(5) **Garner** means gather or collect (something, especially information or approval). Hence " **amass**" is the word most similar in meaning to it.

8.(3) **Imperative** means a factor or influence making something necessary. Hence 'vital' is the word most similar in meaning to it.
Supple means bending and moving easily and gracefully; flexible.
Mercurial means subject to sudden or unpredictable changes of mood or mind.

9.(2) **Ostensible** means stated or appearing to be true, but not necessarily so. Hence ' **genuine'** is the word most opposite in meaning to it.
Avowed means that has been asserted, admitted, or stated publicly.

10.(2) **Customize** means modify (something) to suit a particular individual or task. Hence ' **broaden'** is the word most opposite in meaning to it.
Sustenance means the maintaining of someone or something in life or existence.

11-15. The correct sequence is **EAFDCB.**
11.(5)   12.(1)
13.(4)   14.(5)   15.(5)

16.(3) 'with many wondering whether this relic of' is the correct phrase as when we go by options, options (1) and (2) are incorrect as "whether this is a relic of" does not fit to sentence structure. Option (4) is incorrect as

17.(1) 'to question the conduct of elections' is the correct phrase. All other phrases except (1) can be easily eliminated as they do not have the correct grammatical syntax to fit into the sentence. The use of 'so as' is redundant in the given sentence. Hence (1) is the correct option.

18.(2) 'Not stopping with scepticism of the claim' is the correct phrase as the sentence is not in Past Tense. Moreover, by eliminating the options (1), (3) and (4) on the basis of their incorrect grammatical syntax, the correct option i.e. (2) can be chosen.

19.(4) 'who had obtained business visas to teach Mandarin' is the correct phrase as the word "accused" indicates that the later part of the sentence talks about the past event. Also if we go by options, options (1), (2) and (3) can be eliminated as their structures are not grammatically correct enough to fit into the sentence. Hence (4) is the correct option.

20.(3) 'and continue to raise India's concerns on sovereignty' is the correct phrase as it is to be noted that the sentence is in continuation and it should be added with the help of conjunction "and". Other options are do not form a suitable substitute. Hence (3) is the correct option.

21.(5) The sentence is grammatically correct. So it doesn't require any correction. It is to be noted that the sentence is in Simple Past Tense.

22.(2) 'Amongst the images of agitating farmers in' is the correct phrase as "agitating farmers in Madhya Pradesh" is the correct usage. The use of "agitated farmers" changes the meaning of the sentence. Hence (2) is the correct choice.

23.(4) 'would make farming more attractive' is the correct phrase as the sentence is in comparative degree. The article 'the' is not required before 'farming' in the sentence as the word is used in general sense and not in definite form. The use of 'will' is ignored because there is no certainty of the given fact. Hence (4) is the correct choice.

24.(3) 'to be in their fields rather than on the streets' is the correct phrase as the comparison is made between two infinitives with the help of the word "prefer". Moreover, "at their fields" and "on the streets" are the correct usage. Hence (c) is the correct option.

25.(3) 'but which are precisely the jobs the educated' is the correct phrase the verb it carries should be plural (benefits). Read the phrase just prior to the bold part, "which are few in number" it clearly states that the required phrase should also carry the Plural verb. Hence (3) is the correct option.

26.(3)   **27.(1)**

28.(5)   **29.(3)**   **30.(2)**

31.(1) The pattern is $+6^5$, $+5^4$, $+4^3$, $+3^2$ ....
? $= 16241 + 3^2 = 16250$.

32.(2) The pattern is $+(2 \times 3)$, $+(4 \times 5)$, $+(6 \times 7)$, $+(8 \times 9)$.......
? $= 268 + (6 \times 7) = 310$.

33.(3) The pattern is ×6, ×5, ×4, ×3
? $= 10800 \times 3 = 32400$.

34.(4) The pattern is $(\times 0.5 + 10)$, $(\times 1.5 + 11)$, $(\times 2.5 + 12)$ ....
? $= 392 \times 3.5 + 13 = 1385$.

35.(3) The pattern is $+(1^2 + 5)$, $+(2^2 + 10)$, $+(3^2 + 15)$, $+(4^2 + 20)$.....
? $= 46 + 36 = 82$

36.(4) Principal P = Rs. 17500
Rate of interest r = 8% per annum
Time t = ?
Simple Interest $= \dfrac{Prt}{100}$
$16800 = \dfrac{17500 \times 8 \times t}{100}$
$t = \dfrac{16800 \times 100}{17500 \times 8}$
t = 12 year

37.(5) Let daughter's amount = x
Amount of each son = 2x
Amount of wife = 4x
Total amount = x + (2 × 2x) + 4x = 9x
Amount of each son 2x = 48000
x = 24000

Total amount distributed by Ramlal = 9x
= 9 × 24000 = Rs. 216000

38.(5) We know
Perimeter of a rectangle = 2(length + breadth)
= 2(26 + 18) = 88 cm²
Now, since perimeter of a circle = $2\pi r$
Therefore $2\pi r = 88$ ie $r = \dfrac{44}{\pi}$
Now, the area of the circle = πr^2
$\pi \times \dfrac{44}{\pi} \times \dfrac{44}{\pi} = \dfrac{44 \times 44}{22} \times 7 = 616$ cm²

39.(1) Here ratio of efficiencies of pipes A, B and C are as follows:

C	B	A
2	1	
	2	1
4	: 2	: 1

Suppose the efficiencies of pipes C, B and A are 4K, 2K and K.
Since, the tank is filled in 5 hours by the three pipes having combined efficiency equal to 7K, the time required to fill the tank by A alone $= \dfrac{7K \times 5}{K} = 35$ hours

40.(3) Let speed of man = x kmph
Let speed of tanga = y kmph
$\therefore \dfrac{90}{x} - \dfrac{10}{y} = 4$ ...(i)
and, $x \times \dfrac{10}{y} = y \times \dfrac{90}{x}$
$x^2 = 9y^2$
$\dfrac{x}{y} = 3$
$x = 3y$
$\therefore$ put it in eqn. (i)
$\therefore \dfrac{90}{3y} - \dfrac{10}{y} = 4$
$y = 5$ kmph
$\therefore$ Required time $= \dfrac{10}{5} = 2$ hrs.

41.(4) Required ratio $= \dfrac{1050}{1150} = \dfrac{21}{23} = 21 : 23$

42.(3) Amount of rice sold by shopkeeper A and B = 1400
Amount of wheat sold by shopkeeper C and E = 1150
Required % $= \dfrac{250}{1150} \times 100 = \dfrac{2500}{115} = 21\dfrac{17}{23}$%

43.(2) Total quantity of wheat sold by all = 3200 kg.
Total quantity of rice sold by all = 3300 kg.
Total quantity of sugar sold by all = 2500 kg.

44.(5) Total wheat sold by all in 2016 $= \frac{125}{100} \times 3200 = 4000$ kg.

Total rice sold by all in 2016

$= \left(100 + \frac{200}{33}\right)\%$ of $3300 = \frac{35}{33} \times 3300 = 3500$ kg.

Required difference = 500 kg.

45.(1) Let selling price of wheat in 2015 = 3x Rs./kg.

Let selling price of rice in 2015 = 5x

Selling price of wheat in 2016 $= \frac{5}{4} \times 3x = \frac{15x}{4}$

According to question, $5x \times 600 = 1200 \Rightarrow x = 4$.

Required value $= \frac{11250}{\frac{15}{4} \times 4} = 750$ kg.

46.(1) Total number of students passed from all institutes in the year 2006

= 40% of 550 + 60% of 450 + 68% of 500 + 60% of 750 + 50% of 450 + 60% of 650

= 220 + 270 + 340 + 450 + 225 + 390 = 1895

47.(5) Total students passed from C from 2001 to 2007

= 65% of 300 + 60% of 350 + 50% of 380 + 70% of 450 + 75% of 400 + 68% of 500 + 60% of 470

= 195 + 210 + 190 + 315 + 300 + 340 + 282 = 1832

Total student appeared from C

= 300 + 350 + 380 + 450 + 400 + 500 + 470 = 2850

Required % $= \frac{1832}{2850} \times 100 \approx 65\%$.

48.(2) Required ratio $= \frac{66\% \text{ of } 700}{50\% \text{ of } 570} = \frac{66 \times 70}{50 \times 57} = \frac{154}{95}$.

49.(4) Required ratio

$= \frac{450 + 520 + 430 + 400 + 480 + 550 + 500}{640 + 620 + 580 + 600 + 700 + 750 + 720} = \frac{3330}{4610} = \frac{333}{461}$.

50.(3) Total number of students passed from all institute in 2004.

= 65% of 400 + 75% of 600 + 70% of 450 + 75% of 600 + 60% of 720 + 70% of 780

= 260 + 450 + 315 + 450 + 432 + 546 = 2453

Total students appear in 2004 = 400 + 600 + 450 + 600 + 720 + 780 = 3550

Required % $= \frac{2453}{3550} \times 100 \approx 69\%$.

51.(1) Let the amount borrowed be Rs. x.

so,

$8\% \times 4 \times x + 10\% \times 6 \times x + 12\% \times 5 \times x = 12160$

$32\% \times x + 60\% \times x + 60\% \times x = 12160$

$x = 8000$

52.(2) $\frac{P_1 \times 2 \times 5}{100} = \frac{P_2 \times 3 \times 5}{100} = \frac{P_3 \times 4 \times 5}{100}$

$\Rightarrow 10P_1 = 15P_2 = 20P_3$

$\Rightarrow P_1 : P_2 : P_3 = 30 : 20 : 15 = \frac{1}{10} : \frac{1}{15} : \frac{1}{20}$

53.(5) Ways of forming committee

1) 1 man + 1 woman + 2 children

2) 2 man + 1 women + 1 child

3) 1 man + 2 women + 1 child

Total ways $= 3c_1 \times 4c_1 \times 2c_2 + 3c_2 \times 4c_1 \times 2c_1 + 3c_1 \times 4c_2 \times 2c_1$

$= 3 \times 4 \times 1 + 3 \times 4 \times 2 + 3 \times \frac{4 \times 3}{2} \times 2$

$= 72$

Required Probability $\frac{72}{9c_4} = \frac{4}{7}$

54.(3) Let Radha's age = $9x$

Ruchi's age = $4x$

According to question

$9x - (4x + 5) = 5$

$9x - 4x = 10$

$x = 2$

Radha's age = $9 \times 2 = 18$

Ruchi's age = $4 \times 2 = 8$

Sum = 26 years

55.(1) Number of days taken by A to complete work alone = 14 days

Number of days taken by B to complete work alone = 7 days

Number of days taken by C to complete work alone = 7 days

One day's work of A and B $= \frac{1}{14} + \frac{1}{7} = \frac{3}{14}$

And one day's work of A, B and C $= \frac{1}{14} + \frac{1}{7} + \frac{1}{7} = \frac{5}{14}$

3 day's work of A and B $= 3 \times \frac{3}{14} = \frac{9}{14}$

Remaining work $= \left(1 - \frac{9}{14}\right) = \frac{5}{14}$

This remaining work will be done by A, B and C

$= \frac{5/14}{5/14} = 1 \ day$

56.(2) $x = -\frac{12}{16}, -\frac{8}{16}$

$= -\frac{3}{4}, -\frac{1}{2}$

$y = -\frac{30}{10}, \frac{-8}{10}$

$= -3, -\frac{4}{5}$

$x > y$

57.(4) $x = -\frac{12}{18}, -\frac{6}{18}$

$= -\frac{2}{3}, -\frac{1}{3}$

$y = -\frac{21}{12}, -\frac{8}{12}$

$= -\frac{7}{4}, -\frac{2}{3}$

$x \geq y$

58.(3) $x = -\frac{10}{8}, +\frac{4}{8}$

$= -\frac{5}{4}, \frac{1}{2}$

$y = +\frac{16}{12}, +\frac{6}{12}$

$= \frac{4}{3}, \frac{1}{2}$

$y \geq x$

59.(1) $x = -\frac{51}{17}, +\frac{3}{17}$

$= -3, \frac{3}{17}$

$y = \frac{26}{13}, \frac{6}{13}$

$= 2, \frac{6}{13}$

$y > x$

60.(5) y = 19, x = 19

61.(4) $? \approx [8^2 - 13^2 + 4^3]^2$

$\approx [64 - 169 + 64]^2$

$\approx (-41)^2 \approx 1680$

62.(5) $? \approx \frac{600}{50} \times \frac{400}{80} \div \frac{30}{200} = \frac{600}{50} \times \frac{400}{80} \times \frac{200}{30} = 400$.

63.(2) $\sqrt{3136} \times \sqrt{574} \div \sqrt{250} = ? \div 8$

$\approx 56 \times 24 \div 16 \approx ? \div 8$
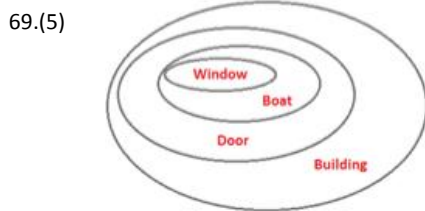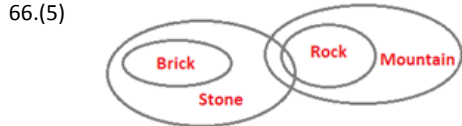
$\approx \frac{56 \times 24}{16} = \frac{?}{8}$

$? \approx \frac{56 \times 24 \times 8}{16} \approx 672$

64.(4) $? \approx \dfrac{340}{20} \div \dfrac{30}{510} \times \dfrac{180}{60}$

$\approx \dfrac{340}{20} \times \dfrac{510}{30} \times \dfrac{180}{60} \approx 867$

∴ required answer = 870

65.(1) $\approx 7000 \div 70 \times 95 = ? \times 20$

$\Rightarrow ? \approx \dfrac{7000 \times 95}{70 \times 20} \approx 475$

66.(5)

Brick, Stone / Rock, Mountain

67.(2)

Radio / Telephone, Mirror, Desk

68.(1)

Funiture, Jungle ✕ Road, Hill

69.(5)

Window, Boat / Door / Building

70.(1)

House, Wheel / Tree ✕ Plant

71-75. From the condition (iii), (iv) and (i), we can deduce the following.

Floor	Person	Planets
8		
7		
6		Mars
5		
4	N	
3		Earth
2		
1		

Now from (xi) and (v), Q cannot live on 7th floor and 3rd floor.

Case-I

Floor	Person	Planets
8		
7		Venus
6		Mars
5	Q	Saturn
4	N	
3		Earth
2		
1		

Case-II

Floor	Person	Planets
8		
7		Venus
6		Mars
5		
4	N	
3		Earth
2		
1	Q	Saturn

Now from (vii), (i) and (x), R lives below from Q, so case II will be eliminated and case-I is continued. P lives on 1st floor.

Case-I

Floor	Person	Planets
8	M	
7		Venus
6		Mars
5	Q	Saturn
4	N	
3		Earth
2	R	
1	P	

Now from (ix), (viii), (ii) and (xii), we deduce the following.

Floor	Person	Planets
8	M	Mercury
7	S	Venus
6	O	Mars
5	Q	Saturn
4	N	Neptune
3		Earth
2	R	Uranus
1	P	Jupiter

Now from above all the conditions, we can conclude like:

Floor	Person	Planets
8	M	Mercury
7	S	Venus
6	O	Mars
5	Q	Saturn
4	N	Neptune
3	T	Earth
2	R	Uranus
1	P	Jupiter

71.(3) 72.(5)

73.(3) 74.(2) 75.(4)

76-80.

Month	People	Flavour Cake
February	E	Strawberry
March	F	Carrot Cake
April	B	Black Forest
June	D	Chocolate
September	A	Cherry Jubilee
October	G	Vanilla
November	C	Lotus seed Paste

76.(2) 77.(4)

78.(4) 79.(4) 80.(3)

81.(2)

A(+) ═══ C(−) ── B
F(+) ── O(−) ── J(+) ═══ K(−)

82-83.

Boxes	Vegetables
M	Begun
B	Paneer
D	Soya-chap
A	Carrot
F	Potato
K	Beans

82.(3) 83.(1)

84.(2)

Case-1 All person are facing in East direction.
25 — 15th 14th 11th 7th — 6
X M T A
40

Or

Case-2 All person are facing in West direction.
6 — 7th 11th 14th 15th — 25
A T M X
40
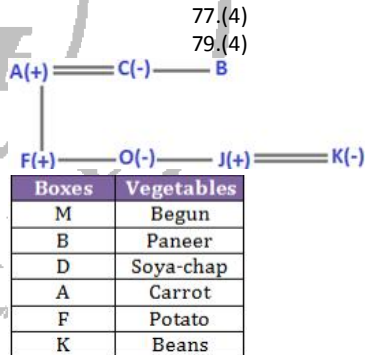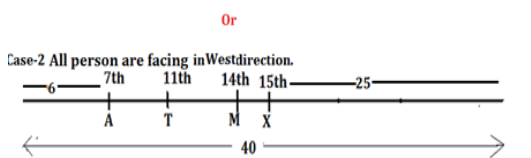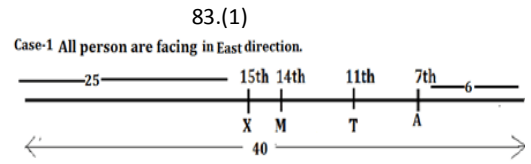
85.(4)

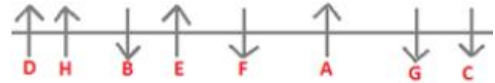| Days	Person
Monday	R
Tuesday	A
Wednesday	Q
Thursday	S
Friday	P
Saturday	B
Sunday	C

86-90. From the second and third line of the puzzle, H sits facing to the centre and his immediate neighbours belong to Karnataka or Uttarakhand and both are facing away to the center. It is given that H sits third to the right of I and I faces away from the centre and belongs to UP.F sits third to the left of I. The one who belongs to Karnataka sits opposite to I.
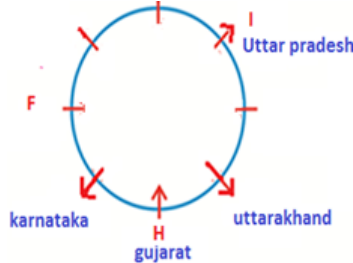

D sits second to the left of F so F faces to the center. D does not belong to Haryana or Assam and the one who belongs to Haryana sits between K and I so K belongs to Uttarakhand .The one who belongs to Maharashtra faces away to the centre and is not the immediate neighbor I so The one who belongs to Maharashtra sits immediate right to D.E faces away from the centre and does not belong to Maharashtra so E belongs to Karnataka. G faces away from the centre so G belongs to Maharashtra and J belongs to Haryana.

86.(5)   **87.(2)**
88.(5)   **89.(4)**   **90.(3)**

91-95. From (i), (iii), (iv) and (vi). We can deduce the following. B sits third to the left of A. Only one person sits between B and F. Only two people sit to the right of A. F sits to the immediate right of E. Only one person sits between E and H. A faces north.

CASE-1

Or

CASE-2

From statement (vii), C sits third to left of F. So, Case-1 is eliminated and Case-2 is continued. From statement (i), G does not sit at any of the extremes ends of the line, hence G sits immediate right of A. From statement (v), both the immediate neighbors of B face the same direction, hence H faces north. From statement (viii), B faces the opposite direction as A and both G and C face the opposite direction of H, hence G and C faces south direction and B faces south direction. From statement

(ix), D faces the same direction as E, hence D faces north.

From statement (i), the person, who occupied 38, sits second to the right of C, hence A occupied number 38. From statement (ii), two persons sit between the persons, who occupied number 40 and 19, but both numbers does not occupied by those persons, who sits on extreme ends of the line. From statement (v), Person occupied 19 does not sit second to the left of F. From statement (iv), G does not occupied 40 and 22. From statement (iii), the person, who occupied 25, sits immediate left of the person, who occupied the highest number, hence H occupied number 40.
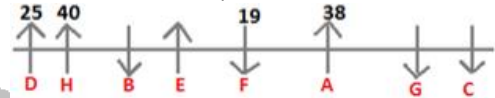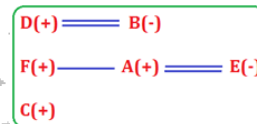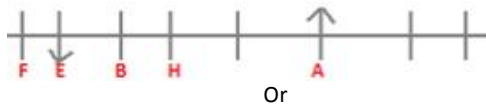

From statement (ix), E occupied that number which is divisible by 4, hence E occupied number 8. From statement (vii), Difference of numbers occupied by G and D is 10, hence G occupied number 15. From statement (x), the person, who occupied 22 sits right of the person, who occupied 17.
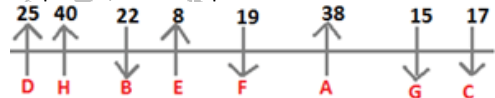
91.(4)   **92.(2)**
93.(3)   **94.(5)**   **95.(5)**
96-98.

A(+)	Card/TT
B(-)	Carrom
C(+)	Volleyball
D(+)	Chess
E(-)	Card/TT
F(+)	Badminton

96.(4)   **97.(3)**   **98.(5)**

99.(4)   L E A P S

100.(3)   L E A P S