SBI PO Prelims -2021. SBPP-2021-10004

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (4) Refer to the following line mentioned in first paragraph of the passage given above, "*Quite often, pipes that transport water suffer from low maintenance and neglect which causes them to develop leakages.*" From the quoted lines, we can infer that the statement given in option (4) is the most suitable answer choice.

2. (3) Refer to the last line of first paragraph which states, "*Endobot is presented as a solution that can identify these faults and stealthy connections, at a low cost.*" From the quoted lines, we can infer that the statement given in option (3) is the most suitable answer choice.

3. (4) Here, "transmits" which means "*communicate or be a medium for*" perfectly fits in the given blank. Apart from "transmits" no other word can make a contextually meaningful statement. Hence, option (4) is the most suitable answer choice. Yields: give way to arguments, demands, or pressure. tolerates: allow the existence, occurrence, or practice of (something that one dislikes or disagrees with) without interference cultivates : prepare and use (land) for crops or gardening increases: become or make greater in size, amount, or degree

4. (4) Refer to the first line of the last paragraph which states, "*Any technology goes through phases of development and Endobot is no exception. "As a next step, we plan to*

add more sensors - ultrasonic and electromagnetic - which can help us find out whether the pipes develop corrosion or cracks on the outer side," says Krishnan Balasubramanian, a director of the company." From the quoted lines, we can infer that the statement given in option (4) is the most appropriate answer choice

5. (5) Refer to the 4th paragraph of the passage given above, which states, "*These feeds are conveyed to the user's computer and may be analysed later using software developed by the team.*" From the quoted lines, we can infer that the statement given in option (5) is the most appropriate answer choice.

6. (4) There are errors in the three parts A, B and C.
In A, in infinitives, first form of verb is used **without s+es**. So, A-I is a correct combination
In B and C, incorrect form of tenses is used.
In B, the correct phrase would be '*had died of injuries*'. So, B-II is the correct combination.
In C, the correct phrase would be '*took time off to herd*'. So, C-III is the correct combination.
Hence, none of the given options are correct and option (4) is correct.

7. (2) There is no error in the part (A).
There is a grammatical error in the part (B). The tense of the given clause is **past tense** while the tense presented in the part (B) is present. Moreover, '*in*' is an incorrect preposition to be used in front of '*Wednesday*'.
The correct phrase could have been '*that began Wednesday*'. So, B-II is the correct combination.
There is also a grammatical error in the part (C). '*came*' is the 2nd-form verb while 3rd form of verb is used after the helping verb '*have*' and when the sentence is in **present tense**. The correct alternative is given in (III). So, C-III is also a correct combination.
Hence, option (2) is the correct answer.

8. (1) There are errors in the parts (A) and (B).
The tone of the sentence where the part (A) appears, suggests that the phrase starting from '*seeks creation'* is a **participle phrase—present participle phrase.** Alternative (I) is the grammatically correct phrase. So, A-I is the correct combination.
The nature of the participle phrase '*moving by State Parliamentary Affairs*' is **wrong**. The participle given in the phrase is **present participle phrase** while the tone of the sentence where the part (B) appears suggests that **past participle phrase** will be used. Alternative II is the grammatically correct phrase.
So, B-II is the correct combination.
Hence, option (A) is the correct answer.

9. (3) There are errors in the parts A, B and C. The clause where the part (A) appears seems to have a tense **present perfect tense**. 3rd form of verb is used after the helping verb '*has'* but in the given clause, 1st form verb + ing form is used which is **incorrect**. The part (I) is

the **correct** alternative to the part A. So, A-I is the correct combination.

The clause where the part (B) appears seems to have a **simple past tense**. So, part (B) is also contextually incorrect. Part (II) provides **correct alternative** to the phrase (B). So, B-II is the correct combination.

The clause where the part (C) appears again seems to have a grammatical error. Part (III) provides the correct alternative to the phrase (C) So, A-III is the correct combination.

Hence, option (3) is the correct answer.

10. (5) The given sentence is grammatically correct, contextually meaningful and doesn't require correction.

11. (2) From the given options, option (d) has grammatical error. Also option (1) and (c) doesn't make the sentence contextually correct. Hence, option (b) is the correct answer which makes the sentence both grammatically and contextually correct.

12. (4) Use of conjunction 'while' here indicates that there is a comparison done between the governing mechanism of the two countries, North Korea and Iran. So the correct option will be the one which can add up to this comparison. So from the given options, option (b) is grammatically incorrect. Option (1) doesn't fit the coherent sense of comparison of the statement. And option (c) doesn't agree with subject verb agreement because of absence of pronoun (that) in the beginning. Hence, option (d) is the only correct answer.

13. (3) The conjunction 'but' here is used to introduce something contrasting with what has already been mentioned. So the most appropriate option to the blank will be the one which will contradicts to the first part of the statement. So looking at the options (1) and (b) they are not in contradiction to the first statement, also they are not making a grammatically correct sentence, for example option (1) will fit the blank correctly if could have used 'not only' 'but also' sentence structure. Hence, they are not suitable options. Also option (d) doesn't make coherently meaningful statement. Therefore, option (c) is the only option that makes the sentence both grammatically and contextually correct. Hence, option (c) is the correct answer.

14. (1) The use of the phrase 'as reflected in' indicates that the blank should be filled with such an option which would rectify the first part of the sentence. So from the given options, none of the options except option (1) satisfy the aforesaid condition, also none of them fits the blank to make the sentence contextually meaningful. Hence, option (1) is the correct answer.

15. (2) As the first part of the sentence is talking about the increase in the trade shortfall, so from the given options only option (b) fits the blank to make a contextually and meaningful sentence.

16-20. The sequence after rearrangement should be CFABED.

The sentence (C) introduces the theme of the paragraph which is 'the decision of the Election Commission to go ahead with the first phrase of polling after the deadly Moist attack in Dantewada'. So, it should be the FIRST sentence of the paragraph.

The sentence (F) informs about who were attacked and killed in the Moist attack. So, the sentence (F) should be the SECOND sentence after rearrangement.

The sentence (A) informs about the aim of the attack and the responsibility to carry out polling without fear of violence bestowed upon the administration. So, the sentence (A) should be the THIRD sentence after rearrangement.

The sentence (B) informs about a different aspect about Moist which is about the retaining ability of the Maoists to pick and choose targets. The sentence (B) should be the FOURTH sentence after rearrangement.

The sentence (E) informs about how the attack was carried out by Maoist. So, the sentence (E) should be the FIFTH sentence after rearrangement.

The sentence (D) informs about the need for a speedy inquiry and about the report that the BJP legislator may have been complacent about the security risk. So, the sentence (D) should be the LAST sentence after rearrangement.

So, the sequence after rearrangement should be CFABED.

16. (3) So, the SECOND sentence after rearrangement would be F.
Hence, option (3) is the correct answer.

17. (4) So, the SIXTH sentence after rearrangement is D.
Hence, option (4) is the correct answer.

18. (2) So, the THIRD sentence after rearrangement is A.
Hence, option (2) is the correct answer.

19. (1) So, the FIRST sentence after rearrangement is C.
Hence, option (1) is the correct answer.

20. (5) So, the FIFTH sentence after rearrangement is E.
Hence, option (5) is the correct answer.

21. (3) Here in the highlighted phrase 'I never liked to sleep two in a bed' we will use 'liked' instead of 'like' because the above sentence is in indirect speech. Also 'in' will be used at place of 'the' because 'the' is used when singular noun is used to represent whole class and 'in' is used when we want to indicate a position within a limited space (for example 'bed' here). Hence, correct option is (3).

22. (1) Here in the highlighted phrase 'would this day perhaps have been in as howling' we will use 'have' instead of 'has' because when the first part is in the form of "I Had+sub+V3....." then the grammatically correct structure of the second part will be "Sub + would have+V3+....". Also 'howl' should be replaced with 'howling' because 'howl' is a verb but we need adjective here because we are describing the condition hence the correct word should be 'howling'. Hence, option (1) is the correct answer.

23. (5) There is no error in highlighted phrase, so no improvement required. Hence, option (5) is the correct answer.

24. (2) Here in the highlighted phrase 'has been predicted to affect five mandalas mostly in Srikakulam' we will use 'has' instead of 'have' because fani is a singular noun. Also we will use 'affect' instead of 'effect' because 'affect' means to influence or to produce a change in something whereas 'effect' means the result of a change. Hence, option (2) is the correct answer.

25. (4) Here in the highlighted phrase 'whether it was this undulating tester and something else that rolled the savage away' we will use 'or' at place of 'and' because 'whether' is always followed by 'or'. Also 'is' should be replaced with 'was' and 'roll' should be replaced with 'rolled' because looking at the last part of the sentence '…he now spoke of his…' we can see that the given sentence is in past tense. Hence, option (4) is the correct answer.

26. (4) The correct answer choice is option (4).

Discovery- the action or process of discovering or being discovered.

Hence, option (4) is the most viable answer choice.

27. (5) All the words given in bold are correct and have no spelling errors. Hence option (5) is the correct choice for the given question.

28. (4) The correct answer choice is option (4).

Perspective- the appearance of viewed objects with regard to their relative position, distance from the viewer, etc.

Hence, option (4) is the most viable answer choice.

29. (2) The correct answer choice is option (2).

Scrupulously- in a very careful and thorough way.

Ravaged- severely damaged; devastated.

Hence, option (1) is the most viable answer choice.

30. (5) The correct answer choice is option (5).

All the bold words given in the sentence are correctly spelt hence there is no need of any replacement.

Hence, option (5) is the most viable answer choice.

31. (4) $\frac{96}{100} \times 1050 - \frac{?}{100} \times 500 = 998$

$\frac{?}{100} \times 500 = 1008 - 998$

$? = \frac{10 \times 100}{500}$

$? = 2$

32. (3) $\frac{5}{2} \times \frac{7}{8} \times \frac{1}{28} \times 800 = 130 - ? + 249.5$

$? = 249.5 + 130 - 62.5$

$? = 317$

33. (1) $? = \sqrt{5125 - 289 - 75}$

$= \sqrt{4761} = 69$

34. (5) $(?)^2 = 16 \times 7 + 256 - 7$

$(?)^2 = 361$

$? = 19$

35. (2) $252 + 26 + 420 = 121 + ?$

$? = 577$

36. (5) $? = 27 - \frac{1}{2}$

$= 26\frac{1}{2}$

37. (1) $? = 52 \div 4 + \frac{3}{5} \times \frac{5}{3}$

$= 14$

38. (3) $? = 40 - 10 + 5 - 2 = 33$

39. (1) $? = \frac{36}{100} \times 125 + \frac{44}{100} \times 225$

$= \frac{14400}{100}$

$= 144$

40. (5) $\sqrt{2304} = ?$

$? = 48$

41. (2) I. $15x^2 - 12x - 10x + 8 = 0$

$3x(5x - 4) - 2(5x - 4) = 0$

$(3x - 2)(5x - 4) = 0$

$x = \frac{2}{3}, \frac{4}{5}$

II. $6y^2 - 3y - 4y + 2 = 0$

$3y(2y - 1) - 2(2y - 1) = 0$

$(3y - 2)(2y - 1) = 0$

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

So, $x \geq y$

42. (5) I. $x^2 + 11x + 19x + 209 = 0$

$x(x + 11) + 19(x + 11) = 0$

$(x + 11)(x + 19) = 0$

$x = -11, -19$

II. $y^2 + 13y + 11y + 143 = 0$

$y(y + 13) + 11(y + 13) = 0$

$(y + 13)(y + 11) = 0$

$y = -11, -13$

So, no relation can be obtained.

43. (3) I. $\frac{18}{\sqrt{x}} + \frac{17}{\sqrt{x}} = \sqrt{x}$

$x = 35$

II. $y^4 = \frac{(9 \times 4)^{\frac{9}{2}}}{\sqrt{y}}$

$y^{\frac{9}{2}} = (36)^{\frac{9}{2}}$

$y = 36$

$\therefore \quad y > x$

44. (3) I. $x^3 = 4913$

$x = 17$

II. $y^2 - 18y - 20y + 360 = 0$

$y(y - 18) - 20(y - 18) = 0$

$(y - 18)(y - 20) = 0$

$y = 18, 20$

So, $y > x$

45. (1) I. $12x = 144 + 11 - 23$

$12x = 132$

$x = 11$

II. $\sqrt{y + 390} = 17 + 3$

$y + 390 = 400$

$y = 10$

$\therefore \quad x > y$

46. (2) let total marks = 100x

ATQ

$20x + 75 = 55x - 20x$

$15x = 75$

$x = 5$

Passing marks = $20x + 75 = 175$

47. (4) Let the cost price of first and second article be Rs 4x and 5x respectively.

ATQ

Total selling price = $\frac{112.5}{100} \times 4x + \frac{90}{100} \times 5x = Rs\ 9x$

Total cost price = $4x + 5x = Rs\ 9x$

So, neither gain nor loss obtained.

48. (2) Let the sum and rate of interest be Rs P and R% respectively.

Second year C.I. = 2 years S.I. + interest of one year on first year S.I.

2-year S.I. = Rs.500

1-year S.I. = Rs.250

So, interest on first year S.I. = 550 – 500 =Rs. 50

Rate of interest = $\frac{50}{250} \times \times 100 = 20\%$

49. (3) Sum of age of Amit, Dharam and Ankit at the time of marriage =120 years

Sum of age of Amit, Dharam, Ankit, Child and bride after 5 years of marriage =180 years

So, sum of age of Amit, Dharam and Ankit and bride at the time of marriage
=180-(5+5+5+4+5)=156 years
So, age of bride at the time of marriage =156-120=36 years

50. (2) Let total work be 60 units
So, efficiency of A = 4 units/day
And efficiency of B = 3 units/day
Let efficiency of C = x units/day
ATQ
$(4 + 3 + x) \times 6 = 60$
$x = 3$ units/day
ratio of efficiency of A :B :C = 4 :3 :3
C's share in wage $= \frac{3}{10} \times 5400 = Rs\ 1620$

51. (3) Required difference $= 570 - \frac{(500+550+480+600+650+580)}{6}$
$= 570 - 560 = 10$

52. (1) Required percentage $= \frac{(500+600)}{(600+400)} \times 100$
$= \frac{1100}{1000} \times 100 = 110\%$

53. (4) Required ratio $= \frac{(450+570+600)}{(500+550+480)} = \frac{1620}{1530}$
$= \frac{18}{17}$

54. (2) Required amount $= 3360 \times 1500 - 3370 \times 1200$
$= Rs\ 996000$

55. (5) Required sum $= 650 \times \frac{14}{13} + 480 \times \frac{13}{12}$
$= 700 + 520 = 1220$

56. (2) Time taken by Anurag to cover $\left(\frac{5}{9}\right)^{th}$ of the distance on Monday
$= \frac{900 \times \frac{20}{100} \times \frac{5}{9}}{50} = 2$ hours
Time taken by Anurag to cover remaining distance on Monday
$= \frac{900 \times \frac{20}{100} \times \frac{4}{9}}{60} = \frac{80}{60} = \frac{4}{3}$ hours
Required speed $= \frac{900 \times \frac{20}{100}}{2 + \frac{4}{3}}$
$= \frac{180}{\left(\frac{10}{3}\right)}$
$= \frac{180 \times 3}{10} = 54$ km/hr.

57. (3) Distance travelled by Anurag on Wednesday & Friday together
$= 900 \times \frac{(18 + 21)}{100}$
$= 900 \times \frac{39}{100} = 351$ km
Distance travelled by Anurag on Tuesday & Thursday together
$= 900 \times \left(\frac{25 + 16}{100}\right)$
$= 900 \times \frac{41}{100} = 369$
Required difference $= 369 - 351 = 18$ km

58. (4) Distance travelled by Anurag on Tuesday
$= 900 \times \frac{25}{100} = 225$ km
Distance travelled by Car on Tuesday $= 225 \times \frac{3}{15} = 45$ km
Distance travelled by Bus on Tuesday $= 225 \times \frac{7}{15} = 105$ km
Distance travelled by Train on Tuesday $= 225 \times \frac{5}{15} = 75$ km
Time taken to cover 45 km via car on Tuesday $= \frac{45}{30} = \frac{3}{2}$ hours
Time taken to cover 105 km via bus on Tuesday $= \frac{105}{21} = 5$ hours
Time taken to cover 75 km via train on Tuesday $= \frac{75}{25} = 3$ hours
Required time $= 5 + 3 + \frac{3}{2} = 9.5$ hours

59. (1) Required average $= \frac{900 \times \left(\frac{18 + 16 + 21}{100}\right)}{3} = \frac{9 \times 55}{3} = 165$ km

60. (3) Distance travelled by Anurag on Sunday
$= \frac{250}{100} \times 900 \times \frac{20}{100} = 450$ km
Required speed $= \frac{450}{20} = 22.5$ km/hr.

61. (2) Let total quantity of mixture initially $= 100x$
So quantity of milk initially $= 75x$
So quantity of water initially $= 25x$
8 liter of mixture is taken out
So, $\frac{8 \times 75}{100} = 6$ liter of milk is taken out
$8 - 6 = 2$ liter of water is taken out
Now,
ATQ,
$\frac{75x - 6 + 7}{25x - 2} = \frac{7}{2}$
$x = \frac{16}{25}$
So initial quantity of mixture $= \frac{16}{15} \times 100 = 64$ L

62. (4) Required average $= 53 - \frac{[(49+57)-(45+52)]}{45}$
$= 53 - \frac{9}{45}$
$= 52.80$ kg

63. (1) Let speed of boat in still water $= 11x$
Speed of stream $= x$
Now ATQ,
$\frac{220}{(11x - x)} - \frac{220}{11x} = 1$
$\frac{220}{10x} - \frac{220}{11x} = 1$
$\frac{1}{x}(22 - 20) = 1$
$x = 2$
So speed of boat in still water $= 11 \times 2 = 22$ km/hr

64. (3) Let C.P. of article $= 100x$
S.P. of article if sold at 10% profit $= 110x$
S.P. of article if it is marked up above 30% of C.P. and 10% discount is given
$= 100x \times \frac{130}{100} \times \frac{90}{100}$
$= 117x$
ATQ,
$117x - 110x = 56$
$x = 8$
So, C.P. of article $= 100x$
$= 100 \times 8$
$= Rs.\ 800$

65. (2) Word are $= (3-I, 2-N, 1-T, 2-C, 1-O)$
Required no. of ways $= \frac{8!}{3! \times 2! \times 2!} = 1680$

66. (2) I: F>C (False) II: D>I (True)

67. (2) I: M>A (False) II: G>S (True)

68. (3) I: I≥P (False) II: P>I (False)

69. (1) I. A ≥ X (True) II B < Y (False)

70. (5) I. A > Y (True) II. D ≥ Y (True)

71-75. From the given statements, three persons are taking class between C and D. D and F doesn't take class on Sunday. E takes class before F but after C. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3.

| Days	Case 1	Case 2	Case 3
Monday	C	C	…. /
Tuesday	E/	…. / E/	C
Wednesday	E/F/	…. / E/F/	E/
Thursday	E/F/	…. /E/F/	E/F/
Friday	D	…. /F/	F/
Saturday	F/…. /	D	D
Sunday	…. /		…. /

From the given statements, there are as many persons take class before A as after D. B takes class before F and after E. No one take class before C. Here, Case 2 and Case 3 are eliminated.

So, final arrangement will be: -

| Days	Persons
Monday	C
Tuesday	A
Wednesday	E
Thursday	B
Friday	D
Saturday	F
Sunday	....

71. (4)
72. (2)
73. (4)
74. (2)
75. (3)

76-80. From the given statements, D sits 3rd to the left of F and one of them sits at the extreme ends. **Now, we have two possibilities i.e. Case 1 and Case2.** There is one person sits between D and E. **Here one more possibility added i.e. Case 2a.** There are four persons sit between C and B, who sit near to E.

Case 1

D B E F   C

Case 2

B E D C F

Case 2 a

C   D B E F
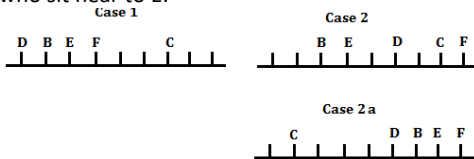
According to the given statements, Both G and A are immediate neighbors to each other. Both P and H are immediate neighbors to each other. **Now, Case 2 and Case 2a are eliminated now.** There are more than two persons sit between P and G, who does not sit at any of the extreme end.

**So, the final arrangement is here-**

D B E F G A C H P
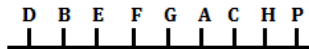
76. (3)
77. (5)
78. (3)
79. (1)
80. (4)

81-85. From the given statements, there are two persons sit between D and the person who likes to vote to NCP. E who doesn't like to vote to NCP, faces the person who sits immediate left of D. F sits opposite to K who doesn't like to vote to NCP. The person who likes to vote to SP sits opposite to the person who sits immediate left of F. Here, we get three possibilities i.e. Case 1 and Case 2.

Case 1   Case 2
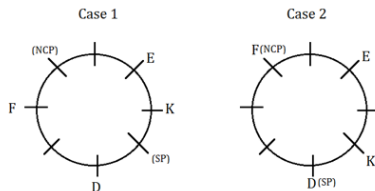
From the given statements, G sits 3rd to the left of I and both neither like to vote to Congress nor to BJP. H sits 2nd to the right of J who doesn't like to vote to BJP. The persons who like to vote BJP and Congress are immediate neighbors to each other. The persons who like to vote to BJP and Congress neither an immediate neighbor of D nor G. Here, Case 1 is ruled out. The person who likes to vote to PDP sits immediate right of the person who likes to vote to TDP. The person who likes to vote to Shiv Sena sits 3rd to the left of the person who likes to vote to TDP.
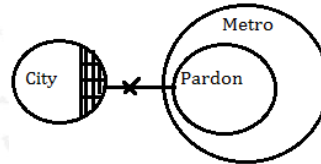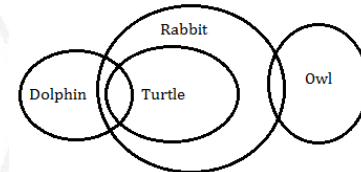
So, final arrangement will be: -
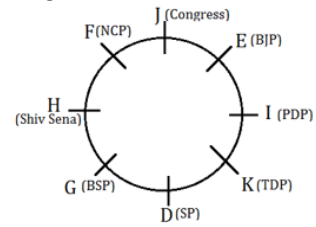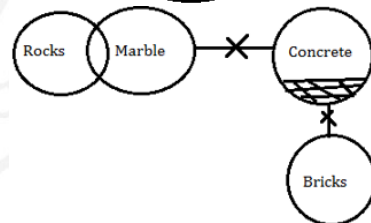
81. (3)
82. (5)
83. (4)
84. (2)
85. (2)
86. (3)
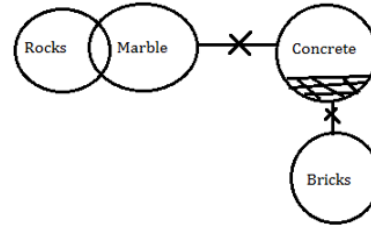
87. (2)
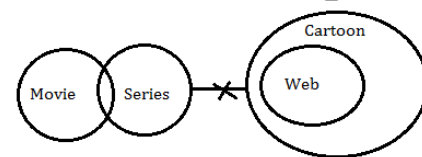
88. (4)

89. (4)

90. (1)

91. (4) R6Y, V1X
92. (3) $7@
93. (2)
94. (3)
95. (2)

96-100. From the given conditions, two boxes are placed between R and T. Box Q is placed immediately above box T. S and R are of green and black colour respectively. One Box is placed between yellow coloured and black coloured box. Now we have three possible case i.e. Case-1, Case-2a, Case-2b.

Case-1

Box	Colour
Q	
T	
	Yellow
R	Black

Case-2a

Box	Colour
R	Black
Q	Yellow
T	

Case-2b

Box	Colour
	Yellow
R	Black
Q	
T	

Now, from the other conditions, Box U placed above box R but not immediately above. One box placed between S and the box which is of pink colour. Box S is of green colour. Box S doesn't place below the box which is black colour. More than two boxes are placed below S. Here, Case 1 is ruled out.

Case-2a		Case-2b	
Box	Colour	Box	Colour
U		U	Yellow
S	Green	S	Green
R	Black	R	Black
	Pink		Pink
Q	Yellow	Q	
T		T	

From the given statements, orange coloured box is placed immediately above blue coloured box. From that condition, Case-2a is eliminated. U is not of orange colour. Box Q is not of blue colour.

So, the final arrangement will be-

Box	Colour
U	yellow
S	Green
R	Black
P	Pink
Q	Orange
T	Blue

96. (4)
97. (2)
98. (4)
99. (1)
100. (2)