

## SBI PO Preliminary Grand Test –SPP-180655

### HINTS & SOLUTIONS

#### ANSWER KEY

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

#### HINTS & SOLUTIONS

1. (4) We can clearly identify the meaning of phrase used in the first paragraph “losing their shirts”. It means that according to government banning the investments in virtual currency would prevent the risks of being losing everything by investors.  
Hence option (4) is the correct choice.  
Refer the lines “We can see how the government might think that imposing a ban will protect gullible investors from losing their shirts.”
2. (4) Both sentence (2) and (3) can be inferred from the paragraph 2 while sentence (1) is not mentioned anywhere in the paragraph.  
Hence option (4) is the correct choice.  
Refer the lines “From the text of the RBI notification it appears that there is a concern around the anonymity inherent in the platform and the attendant challenges this poses for law enforcement. As a matter of fact, while every transaction on the bitcoin blockchain is, by design, public, the transactions reference electronic addresses that do not contain any information about the person making it.”
3. (2) We can infer from last line of the third paragraph “The moment the connection between you and even one of your books is revealed, the whole subterfuge comes crashing down.” that the revelation of the name of the person behind the trade would reveal the dishonest purpose behind the trade.
4. (2) Hence sentence (2) is the most appropriate choice. Refer the fourth paragraph of the passage. Sentence (IV) is not mentioned anywhere in the passage. Hence option (2) is the appropriate choice.
5. (4) Refer the lines of fifth paragraph “If the government’s objective was to **prosecute** those who use cryptocurrency for illegal activities, they’d have been far better off allowing these transactions to continue in the open where there is a chance that they may be detected using the forensic mechanisms outlined above.”  
Hence option (4) is the correct choice.
6. (4) “The futility of prohibiting bitcoin trade” is an appropriate title of the passage.
7. (5) Gullible means easily persuaded to believe something; credulous. Hence it has same meaning as credulous. Succumb means fail to resist pressure, temptation, or some other negative force.  
Scrupulous means careful.  
Sedate means calm, dignified.  
Abet means encourage.
8. (4) Nefarious means sinful or criminal. Hence it has same meaning as heinous.  
Plausible means seeming reasonable or probable.  
Entrench means establish or settle.  
Plausible means reasonable.  
Naïve means showing a lack of experience, wisdom, or judgement.
9. (5) Tumble means fall suddenly, clumsily, or headlong. Hence it has opposite meaning as soar.  
Pertinent means relevant or applicable to a particular matter; apposite.  
Cogent means clear, logical, and convincing.
10. (1) Veil means partially conceal, disguise, or obscure. Hence it has opposite meaning as overt.  
Tenable means able to be maintained or defended against attack or objection.  
Accede means agree to a demand, request, or treaty.  
Dissent means disagreement.  
Flounder means struggle.
11. (2) The second sentence is grammatically correct. However, there are errors in the first and the third sentence. In the first sentence, it should be **India has** in place of **India have** since India is a singular noun and with it singular verb will be used. In the third sentence, it should be **one of the striking features** in place of **one of the striking feature**. It is to be noted that one of is followed by plural noun and singular verb.
12. (1) The third sentence is grammatically correct and contextually meaningful. Therefore, option (1) is the most viable choice.  
The first and second sentences are grammatically incorrect. In case of first sentence, the phrase ‘over the heels’ should be replaced with ‘over the hills’ which is used for someone who is too old to be of much use. In case of second sentence, **setting aside** will replace **setting beside**. **Setting aside** means **to declare something invalid or overrule something which fits in the context of the sentence and makes it grammatically and contextually**

- correct.** Setting beside does not fit in the context of the sentence as it means to place something near or next to something.
13. (2) The correct choice for the grammatically and contextually viable sentence would be option (b).  
The first and the third sentence contains an error. In the first sentence, there should be an addition of a reflexive pronoun (which is itself in this case) after reveals as the subject and the object of the sentence is the kathua mindset.  
In case of the third sentence, 'Placed' will be replaced with places as the sentence is in present tense.
14. (1) The first sentence and the second sentence contains an error. In this sentence **Prime Minister Office** should be replaced with **Prime Minister's office**.  
In the second sentence the grammatical syntax followed is incorrect. **With any form of Do i.e., do/does/did we use first form of verb. Therefore, understood should be replaced with understand to make the sentence grammatically correct.**  
Third sentence bears no error.
15. (1) Out of the given statements, statement (I) and (II) contains an error. In case of (I) statement, there is a prepositional error which makes the sentence grammatically incorrect. **Preposition 'on' should be replaced with 'in' as 'in' is used to signify the position or place and thus it fits into the context of the sentence.**  
In case of (II) statement, '**upheld**' will replace '**uphold**' as the sentence is in past tense which can be seen from the phrase 'mandated in our constitution'.  
(III) statement bears no error.
16. (5) Among the given options, both (2) and (4) provide the contextual meaning to the sentence. Both the expressions can be used to complete the sentence coherently.  
The sentence is describing about the changing preference from privately owned cars to public transport, thus the phrase that shall complete the given sentence should express the fall in the sale of cars. However, options (1) and (3) are out of the context and make the sentence meaningless and grammatically incorrect. Hence option (5) is the correct choice.
17. (1) The sentence is describing about the efforts taken by the countries for clean fuel and technologies. It is to be noted that 'however' is used to depict contrast in the sentence. Therefore, as the previous clause states [expand availability of clean fuels and technologies], the clause after 'however' should be contradicting. Only option (1) is completely justifying the context of the sentence. All the other options are either grammatically incorrect or contextually meaningless. Hence, option (a) becomes the most suitable answer choice.
18. (5) Among the given options, both (3) and (4) provide the contextual meaning to the sentence. Both the expressions can be used to complete the sentence coherently. However, options (1) and (2) are out of the context and make the sentence meaningless and grammatically incorrect. Hence option (5) is the correct choice.
19. (2) The sentence is describing about the difficulty people face while travelling through Indian roads, thus the phrase that shall complete the sentence should be of similar context. Only option (2) depicts the reason of adversity of roadways. However, all the other options fail to comply with the theme of the sentence. Hence option (2) is the most suitable answer choice.
20. (4) The sentence can be completed using expression (4). Expression (2) and (3) stands completely incorrect as they do not find any relation with the theme of the paragraph.
- Moreover, expression (1) stands incorrect as it lacks the preposition 'in' which would have connected it with the phrase given. Also, expression (5) is incorrect as the sentence is describing about the outer beauty of people; whereas expression (5) mentions all the intrinsic qualities of the people. Hence, option (4) becomes the most viable answer choice.
21. (4) The given word in bold doesn't provide the suitable meaning to the paragraph. The paragraph is describing about the predictions made on the effects on the growing global economy due to expansion of debts in emerging markets by International Monetary Fund (IMF). Therefore, the verb '**initiate**' which means cause (a process or action) to begin should be replaced with 'expand'. "**Expand**" is a verb which means 'become or make larger or more extensive' to provide a precise contextual meaning to the paragraph. All the other given options fail to provide coherence to the paragraph. Hence, **option (4)** becomes the most suitable answer choice.  
Generate means produce or create.  
Spawn means produce or generate a large number of.
22. (2) The given word in bold doesn't provide the suitable meaning to the paragraph. *The paragraph is describing about the predictions made on the effects on the growing global economy due to expansion of debts in emerging markets by International Monetary Fund (IMF).* Therefore, '**structure**' which means the arrangement of and relations between the parts or elements of something complex should be replaced with 'estimates'. The verb 'estimates' provides the absolute contextual meaning as the sentence requires a word which introduces the findings and predictions of IMF after they must have studied about the global economy. "**Estimates**" is a verb which means 'roughly calculate or judge the value, number, quantity, or extent of' to provide a precise contextual meaning to the paragraph. All the other given options fail to provide coherence to the paragraph. Hence, **option (2)** becomes the most suitable answer choice.  
**Probe** means a thorough investigation into a crime or other matter.  
**Computation** means the action of mathematical calculation.  
**Belief** means an acceptance that something exists or is true, especially one without proof.
23. (1) The given word in bold doesn't provide the suitable meaning to the paragraph. The paragraph is describing about the predictions made on the effects on the growing global economy due to expansion of debts in emerging markets by International Monetary Fund (IMF). It is to be noted that the expansion of global economy indicates an upward movement therefore, to make the sentence contextually correct replace the noun "**pendulum**" which is used to refer to the tendency of a situation to oscillate between one extreme and another with the noun "**upswing**" which means an increase in strength or quantity; an upward trend. Hence, **option (1)** becomes the most suitable answer choice.  
**Stagnation** means the state of not flowing or moving.  
**Wangle** means manage to obtain (something) by persuading or cleverly manipulating someone.
24. (1) The sentence of the paragraph is describing that due to speedy expansion of global economy financial stability and growth risks are going forward which are covered in the veil of synchronized growth of economy. Therefore, the to make the sentence of the paragraph contextually correct replace "**neglecting**" with "**underneath**". "Underneath" is

a preposition which means so as to be concealed by (something else). Hence, **option (1)** becomes the most feasible answer choice.

**Fortifying** means provide (a place) with defensive works as protection against attack.

**Protecting** means keep safe from harm or injury.

25. (5) The given word in bold doesn't provide the suitable meaning to the paragraph. The paragraph is describing about the predictions made on the effects on the growing global economy due to expansion of debts in emerging markets by International Monetary Fund (IMF). Therefore, the given word in bold provides complete coherence to the theme of the paragraph. Hence, it does not require any further replacement or correction. Thus, **option (5)** becomes the most suitable answer choice.

**Aggression** means feelings of anger or antipathy resulting in hostile or violent behaviour; readiness to attack or confront

**Allocation** means the action or process of allocating or sharing out something.

26. (4) The sentence is describing about the findings released by Fiscal Monitor of the IMF. The given bold word "**estimated**" is inappropriately used as 'estimated' means roughly calculate or judge the value, number, quantity, or extent of. Therefore, to make the sentence correct replace "estimated" with "**released**". 'Released' means allow (information) to be generally available. Hence, option (d) is most suitable answer choice.

**Absolved** means declare (someone) free from guilt, obligation, or punishment.

**Freed** means release from confinement or slavery.

**Concealed** means not allow to be seen; hide.

27. (5) The paragraph is describing about the predictions made on the effects on the growing global economy due to expansion of debts in emerging markets by International Monetary Fund (IMF). Therefore, the given word in bold provides complete coherence to the theme of the paragraph. Hence, it does not require any further replacement or correction. Thus, **option (5)** becomes the most suitable answer choice.

**Prudence** means the quality of being prudent; cautiousness.

**Abridgement** means the action of abridging a text.

**Austerity** means sternness or severity of manner or attitude.

28. (2) The sentence of the paragraph is describing about a situation where the government is trying to prevent a breakdown of economic conditions due to the increase of global debt over the gross domestic product of the country. Therefore, to make the sentence contextually correct replace '**condition**' with 'collapse'. '**Collapse**' is a **verb** which means (of a structure) suddenly fall down or give way. Hence, **option (2)** is the most suitable answer choice.

**Accede** means agree to a demand, request, or treaty.

29. (2) As it has been previously mentioned in the paragraph that the debts in global economy has been increasing. Therefore, to make the sentence correct replace '**diversion**' with '**pile**'. 'Diversion' means the action of turning something aside from its course while 'pile' means a large amount of something. Hence, **option (2)** becomes the most suitable answer choice.

**Compile** means produce (a list or book) by assembling information collected from other sources.

**Distributaries** means a branch of a river that does not return to the main stream after leaving it (as in a delta).

30. (5) Therefore, the given word in bold provides complete coherence to the theme of the paragraph. Hence, it does not require any further replacement or correction. Thus, **option (5)** becomes the most suitable answer choice.

**Diverging** means (of a road, route, or line) separate from another route and go in a different direction.

**Imitating** means take or follow as a model.

31. (5)

$$\begin{aligned} \text{(i)} \quad & x^2 - 25x + 156 = 0 \\ & x^2 - 13x - 12x + 156 = 0 \\ & x = 13, 12 \\ \text{(ii)} \quad & y^2 - 21y + 108 = 0 \\ & y^2 - 12y - 9y + 108 = 0 \\ & y = 12, 9 \\ & x \geq y \end{aligned}$$

32. (4)

$$\begin{aligned} \text{(i)} \quad & 3x + 5y = 18 \\ \text{(ii)} \quad & 7x + 8y = 42 \\ & \text{Multiple (i)} \times 7 \text{ and (ii)} \times 3 \\ & 21x + 35y = 126 \\ & 21x + 24y = 126 \\ & \text{On solving above equations} \\ & y = 0 \\ & x = 6 \\ & x > y \end{aligned}$$

33. (3)

$$\begin{aligned} \text{(i)} \quad & 2x^2 + 15x + 27 = 0 \\ & 2x^2 + 9x + 6x + 27 = 0 \\ & x = -\frac{9}{2}, -3 \\ \text{(ii)} \quad & 3y^2 + 25y - 18 = 0 \\ & 3y^2 + 27y - 2y - 18 = 0 \\ & y = -9, \frac{2}{3} \end{aligned}$$

∴ No relation can be established between x and y

34. (1)

$$\begin{aligned} \text{(i)} \quad & 6x^2 + 29x + 35 = 0 \\ & 6x^2 + 15x + 14x + 35 = 0 \\ & x = -\frac{5}{2}, -\frac{7}{3} \\ \text{(ii)} \quad & 20y^2 + 27y + 9 = 0 \\ & 20y^2 + 15y + 12y + 9 = 0 \\ & y = -\frac{3}{5}, -\frac{3}{4} \\ & \therefore y > x \end{aligned}$$

35. (4)

$$\begin{aligned} \text{(i)} \quad & x^2 - 7x - 30 = 0 \\ & x^2 - 10x + 3x - 30 = 0 \\ & x = 10, -3 \\ \text{(ii)} \quad & y^2 + 15y + 50 = 0 \\ & y^2 + 10y + 5y + 50 = 0 \\ & y = -10, -5 \\ & x > y \end{aligned}$$

36. (4)

Let total monthly salary of Amrit = 100x  
 Investment on food = 30x  
 Now, remaining salary = 70x  
 Remaining salary after house rent and child education  
 $= 70x - \left(70x \times \frac{1}{7} + 70x \times \frac{3}{14}\right)$   
 $= 70x - (10x + 15x)$   
 $= 45x$   
 Now,  $55\frac{2}{9}\%$  of remaining is deposited in R.D. account and rest on saving account  
 Deposit on R.D. account  $= \frac{2}{9} \times 45x = 25x$   
 So, deposit on saving account.  $= 45x - 25x = 20x$   
 $20x = \text{Rs } 13600$   
 $so, 100x = \frac{13600}{20x} \times 100x$   
 $= 68000 \text{ Rs}$   
 Monthly salary = Rs 68000

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37. (4)

Ruchi	Ritu	Riya
$(40000 \times 9 + 50000 \times 3)$	$55000 \times 12$	$75000 \times 6$
510000	660000	450000

Ratio of profit sharing = 17 : 22 : 15  
 Now, According to question  
 $22x - 17x = 3280$   
 $5x = 3280$   
 So, Total profit of Business =  $\frac{3280}{5} \times (17 + 22 + 15)$   
 = Rs 35424

38. (3)

We know work efficiency ratio of A to B = 5 : 4  
 Let time taken by A alone to complete the work = 4x  
 And by B to complete the work alone = 5x  
 Atq,  
 $5x - 4x = 6$   
 $\Rightarrow x = 6$   
 So, A alone can complete the work in 24 day  
 And, B alone can complete the work in 30 day  
 A and B working together can complete the work in  
 $= \frac{1}{\frac{1}{20} + \frac{1}{30}} = \frac{120}{9} = 13\frac{1}{3}$  days

39. (1)

Let distance between Mumbai and Pune = d km  
 Train A speed =  $\left(\frac{d}{4}\right)$  kmph  
 Train B speed =  $\frac{d}{3.5}$  kmph  
 Distance travelled by train B =  $\frac{d}{3.5} \times \frac{1}{2} = \frac{d}{7}$  (from 17:00 hr to 17:30 hr)  
 Remaining distance between Pune and Mumbai is  $d - \frac{d}{7} = \frac{6d}{7}$   
 Time after which they will meet when B had travelled for half hour =  $\frac{\text{remaining distance}}{\text{relative speed}}$   

$$\frac{\frac{6d}{7}}{\frac{d}{4} - \frac{d}{7}} = \frac{\frac{6d}{7}}{\frac{3d}{28}} = \frac{6d}{7} \times \frac{28}{3d} = \frac{8}{5}$$
 =  $\frac{8}{5}$  hours = 1 hour 36 min.

40. (2)

Let the side of square be a  
 $\therefore$  length of the rectangle (L) =  $\frac{4}{5}a$   
 Radius of circle = a  
 Circumference of circle =  $2\pi a = 264$  cm  
 $a = 42$  cm  
 now, area of rectangle = L  $\times$  B (breadth)  
 $= \frac{4}{5} \times 42 \times 15$   
 = 504 sq.cm

41. (3)

Samsung phones sold in 2014 = 7000  
 MI phones sold in 2016 = 9000  
 Samsung phones sold in 2016 = 8000  
 Required % =  $\frac{(7000+9000)-8000}{8000} \times 100\%$   
 = 100%

42. (1)

Average of Samsung phones sold  
 $= \frac{6000+7000+8400+8000+12000}{5} = 8280$   
 Average of Micromax phones sold  
 $= \frac{6600+8000+8000+10000+9400}{5} = 8400$   
 Required difference = 8400 - 8280 = 120

43. (4)

Samsung phones sold in 2012  
 $= \frac{6000 \times 100}{120} = 5000$   
 Micromax phones sold in 2012  
 $= \frac{6600 \times 100}{100} = 6000$   
 MI phones sold in 2012 = 6400  
 So, Average number of phones sold in 2012  
 $= \frac{5000+6000+6400}{3} = \frac{17400}{3} = 5800$

44. (2)

Total customers who bought Samsung phones in 2015 = 8400  
 Male customers who bought Samsung phones in 2015 =  $\frac{7}{12} \times 8400 = 4900$   
 Female customers who bought Samsung phones in 2015 = 8400 - 4900 = 3500  
 Total customers who bought Samsung phones in 2017 = 12000  
 Male customers who bought Samsung phones in 2017 =  $12000 \times \frac{13}{24} = 6500$   
 Female customers who bought Samsung phones in 2017 = 12000 - 6500 = 5500  
 Required ratio =  $\frac{4900+6500}{3500+5500} = \frac{11400}{9000} = 19 : 15$

45. (1)

Total customer in 2015  
 = 8400 + 8000 + 10600 = 27000  
 Total female customers in 2015  
 =  $\frac{4}{9} \times 27000 = 12000$   
 Female customers who bought Samsung phones in 2015  
 =  $\frac{5}{12} \times 8400 = 3500$   
 Female customers who bought Micromax phones in 2015  
 =  $\frac{9}{16} \times 8000 = 4500$   
 So, female customers who bought MI phones = 12000 - (3500 + 4500) = 4000

46. (2)

Total numbers of ways  $\rightarrow 7!$   
 Favorable numbers of ways  $\rightarrow 5! \times 3!$   
 Probability  $\rightarrow \frac{5! \times 3!}{7!} = \frac{1}{7}$

47. (4)

Let radius of sphere and cylinder is 'r'.  
 So, volume of sphere =  $\frac{4}{3}\pi r^3$   
 Volume of cylinder = Volume of sphere  
 $\frac{4}{3}\pi r^3 = \pi r^2 h$   
 $h = \frac{4}{3}r$   
 TSA of sphere =  $4\pi r^2$   
 TSA of cylinder =  $2\pi r(r + h)$   
 $= 2\pi r(r + \frac{4}{3}r)$   
 $= \frac{14}{3}\pi r^2$   
 Required ratio =  $\frac{4\pi r^2}{\frac{14}{3}\pi r^2} = \frac{6}{7}$   
 = 6 : 7

48. (3)

Let total distance = d  
 And speed of faster train = 5x  
 And time taken by faster train = t  
 So,  
 Speed of slower train =  $\frac{5x \times 60}{100} = 3x$   
 ATQ,  
 Faster train  $5x \times t = d$  ... (i)  
 Slower train =  $3x \times (t + 4) = d$  ... (ii)  
 From (i) & (ii)  
 $5x \times t = 3x(t + 4)$   
 $5t = 3t + 12$   
 $2t = 12$   
 $t = 6$   
 Time taken by slower train = 6 + 4 = 10

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49. (5)

Let present age of Arun = x  
 5 years ago, Age of arun = x - 5  
 5 years ago, age of Ankur = 3(x - 5)  
 Arun's age 5 year hence = x + 5  
 So,  
 Ajay's age 5 year ago =  $\frac{(x+5)}{3} \times 5$   
 $= \frac{5x + 25}{3}$   
 Difference between Ankur and  
 Ajay's age = 10  
 $\Rightarrow 3(x - 5) - \frac{5x + 25}{3} = 10$   
 $= 9x - 45 - 5x - 25 = 30$   
 $4x = 100$   
 $x = 25$

50. (1)

When shopkeeper increase discount  
 10% he earns 35 Rs less  
 So,  
 Mark price =  $\frac{35}{10} \times 100 = 350$  Rs  
 Selling price =  $\frac{350 \times 80}{100} = 280$  Rs  
 Cost price =  $\frac{280}{350} \times 100 = 80$  Rs  
 Total pages =  $80 \times 70 = 5600$

51. (2)

Students scoring less than 60% from  
 school B =  $725 - 725 \times \frac{24}{100} = 551$   
 Students scoring less than 60% from  
 school C =  $440 - 440 \times \frac{55}{100} = 198$   
 Students scoring less than 60% from  
 School D =  $625 - 625 \times \frac{48}{100} = 325$   
 So average no. of students scoring less  
 than 60% for school B, C & D together =  $\frac{551 + 198 + 325}{3} = 358$

52. (4)

Boys in school D =  $625 \times \frac{11}{25} = 275$   
 Girls in school D =  $625 - 275 = 350$   
 Boy in school E =  $450 \times \frac{5}{9} = 250$   
 Girls in school E =  $450 - 250 = 200$   
 Required Ratio =  $\frac{275 + 250}{350 + 200} = \frac{525}{550} = 21 : 22$

53. (1)

students from school D scoring  
 60% or more =  $625 \times \frac{48}{100} = 300$   
 Students scoring 60% or more from  
 school A and E together =  $60 \times \frac{30}{100} + 450 \times \frac{40}{100}$   
 $= 180 + 180$   
 $= 360$   
 Required percent =  $\frac{360 - 300}{360} \times 100$   
 $= \frac{1}{6} \times 100$   
 $= 16\frac{2}{3}\%$

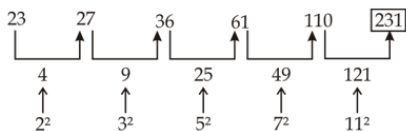
54. (2)

Total students in school C = 440  
 Pass students in school C =  $\frac{7}{10} \times 440 = 308$   
 failed students in school C =  $440 - 308 = 132$   
 Students scoring 60% or more marks in school C =  $440 \times \frac{55}{100} = 242$   
 Pass students with score less than 60% =  $308 - 242 = 66$

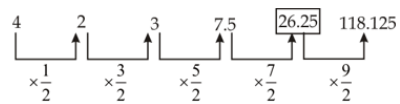
55. (5)

Required ratio =  $\frac{600 \times \frac{70}{100} + 725 \times \frac{76}{100}}{440 \times \frac{55}{100} + 450 \times \frac{40}{100}} = \frac{420 + 551}{242 + 180}$   
 $= \frac{971}{422} = 971 : 422$

56. (2)



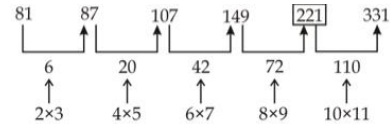
57. (3)



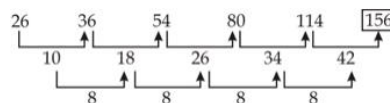
58. (1)



59. (4)



60. (5)



61. (3)

$$110 \times \frac{420}{70} + 500 - 40 = ? \times \frac{5600}{100}$$

$$660 + 460 = 56 \times ?$$

$$? = \frac{1120}{56}$$

$$? = 20$$

62. (4)

$$630 \times ? + 1200 - \frac{55}{100} \times 16000 = \frac{20}{100} \times 9250$$

$$630 \times ? + 1200 - 8800 = 1850$$

$$? = \frac{9450}{630}$$

$$? = 15$$

63. (1)

$$\frac{12000}{?} + \frac{55}{100} \times 1800 = \frac{100}{9} \times \frac{1}{100} \times 9900 + 390$$

$$\frac{12000}{?} = 1490 - 990$$

$$? = \frac{12000}{500}$$

$$? = 24$$

64. (1)

$$16200 \times \frac{31}{27} + 2700 \times \frac{5}{3} - 1800 = ? \times \frac{5}{8}$$

$$18600 + 4500 - 1800 = ? \times \frac{5}{8}$$

$$? = 21300 \times \frac{8}{5}$$

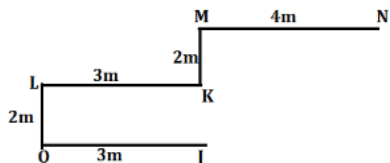
$$? = 34080$$

65. (1)

$$25 \times ? = \frac{50 \times 25}{10}$$

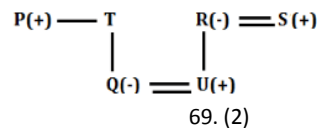
$$? = 5$$

66-67.



66. (4)

68-69.



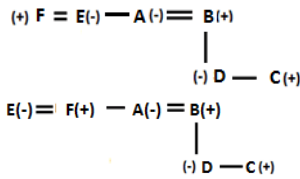
68. (4)

69. (2)

# Grand Test – SPP 180655



70. (3) There can be two cases, in both the cases B is brother-in-law of D's maternal aunt who is E.



71-75. The age of M and P is an even number but none of them is an oldest person. So, the possible ages for them could be 20 year or 14 year. So, it is clear that M and P either born in 1998 or 2004.

Years	Ages	Persons
1989	29	
1993	25	
1964	54	
1965	53	
1998	20	P/M
2004	14	M/P
1985	33	

The sum of ages of N and L is equal to the age of O. So, only possible condition left was N and L either born in 1989 or 1993. And O was born in 1964.

Years	Ages	Persons
1989	29	N/L
1993	25	L/N
1964	54	O
1965	53	
1998	20	P/M
2004	14	M/P
1985	33	

The difference between the ages of P and N is a perfect square. So, it is clear that N was born in 1989 and P was born in 1998. And L was born in 1993, M was born in 2004.

Years	Ages	Persons
1989	29	N
1993	25	L
1964	54	O
1965	53	
1998	20	P
2004	14	M
1985	33	

The difference between the ages of K and P is the age of Q. So, it is clear that K was born in 1965 and Q was born in 1985. So, the final arrangement is-----

Years	Ages	Persons
1989	29	N
1993	25	L
1964	54	O
1965	53	K
1998	20	P
2004	14	M
1985	33	Q

71. (3)  
73. (2)  
76-80.

72. (3)  
74. (3)

75. (2)

From "More than 3 people live above U, who taught in Delhi University. U does not live on the 1st floor. Two persons live between S and U but none of them is from CCS and Lucknow university. The one who taught in CCS lives just above the one who taught in Lucknow university. Q, who lives on 5th floor, taught in Jamia Islamia. Only one person lives between Q and the one from CCS", so we get 3 possibilities:

Case1-

Floor	Person	Universities
9		
8		
7	S	
6		
5	Q	Jamia Islamia
4	U	Delhi university
3		CCS
2		Lucknow university
1		

Case2-

Floor	Person	Universities
9		
8		
7		CCS
6		Lucknow university
5	Q	Jamia Islamia
4	U	Delhi university
3		
2		
1	S	

Case3-

Floor	Person	Universities
9		
8		
7		
6		
5	Q	Jamia Islamia
4	U	Delhi university
3		CCS
2		Lucknow university
1	S	

From "W lives just above X. There are 5 floors gap in between V and T, who taught in BHU. T lives below V. P lives above R, none of them is from CCS and Lucknow university.", case1 gets eliminated as V lives either at 9th or 8th floor, so T lives on 3rd or 2nd floor but T is from BHU and cannot be from CCS or Lucknow university. Case-3 also gets eliminated as no there is no place left for T. Therefore proceeding with case2.

Case2(a)-

Floor	Person	Universities
9	V	
8	P	
7	W	CCS
6	X	Lucknow university
5	Q	Jamia Islamia
4	U	Delhi university
3	T	BHU
2	R	
1	S	

Case2(b)-

Floor	Person	Universities
9	P	
8	V	
7	W	CCS
6	X	Lucknow university
5	Q	Jamia Islamia
4	U	Delhi university
3	R	
2	T	BHU
1	S	

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From “The one from Patna university lives just below the one from Amity university. Professor from Annamalai does not lives on the top.” Case2(b) gets eliminated as only one place left for Amity and Patna university is at floor 9th and 8th respectively, which leaves R with either AMU or Annamalai, which is not possible as R is not from AMU and Annamalai university.

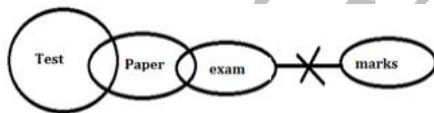
In case2(a) it is confirmed R is from Amity and S from Patna university. Also since, professor from Annamalai does not lives on top floor therefore P is from Annamalai university and V from AMU. The final arrangement is:

Floor	Person	Universities
9	V	AMU
8	P	Annamalai university
7	W	CCS
6	X	Lucknow university
5	Q	Jamia Islamia
4	U	Delhi university
3	T	BHU
2	R	Amity university
1	S	Patna university

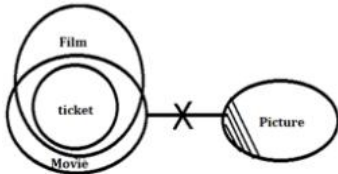
- 76. (4)
- 78. (4)
- 81. (3)

- 77. (5)
- 79. (5)

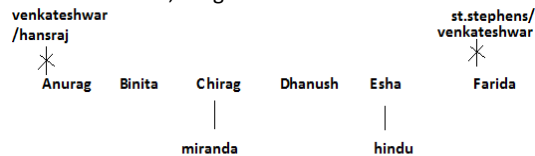
80. (4)



82. (2)



**83-85.** From “Anurag is not from Sri Venkateshwara and not from Hansraj. Farida is not from St. Stephens and not from Sri. Venkateshwara. Chirag is from Miranda and Esha from Hindu”, we get



From “Dhanush is not from Sri Venkateshwara.”, so we know that Anurag, Dhanush and Farida are not from Sri Venkateshwara, therefore Binita is from Sri Venkateshwara. From “Either Farida or Binita is from Ramjas.” We get that Farida is from Ramjas. Also, Anurag is not from Hansraj therefore Dhanush is from Hansraj. So, the final arrangement is:

Student	College
Anurag	St. Stephens
Binita	Sri Venkateshwara
Chirag	Miranda
Dhanush	Hansraj
Esha	Hindu
Farida	Ramjas

83. (1)

84. (5)

85. (5)

**86-87.** Total number of students=32  
Boys and girls are in a ratio 9:7. So,  
Total number of boys= 18  
Total number of girls=14  
Shreya is a girl and sits 6th to the right of Shreyas(Boy) who is 11th from the left end. Raghav who is a boy is 8th from the right end. So the arrangement will be---



If Mitali is sitting exactly between Raghav and Shreya then



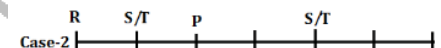
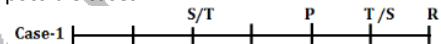
So, her position from the right end will be 12th.

86. (2)

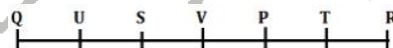
87. (3)

**88-92.**

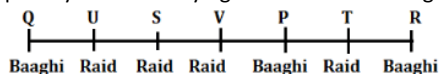
R is watching Baaghi and sit at one of the extreme end. Only one person sits between R and P. Only two persons sit between S and T and none of them sit at an extreme end. So, R can sit on either of the ends and there will two possible cases-



No two persons can sit together according to alphabetical order (for ex- P can't sit with Q and Q can't sit with P & R and so on...). From this we can say that S can't sit with R so, T will sit next of R in both cases. Rest V sit third to the right of Q. In case-2 Only one position left for Q is the next position of P but P can't sit with Q so, case-2 has been eliminated. Now, with case-1 Q will sit at the extreme left end and V sit to the immediate left of P. And rest U sit in between S and Q.



R is watching Baaghi. The immediate neighbours of all those persons who watch Baaghi are watching Raid. So, T is watching Raid. And S does not watch Baaghi. So, S is watching Raid. Only three persons sit between those persons who watch Baaghi. So, only one condition is that Both Q and P are watching Baaghi and their immediate neighbours U and V are watching Raid. All the persons are sitting in ascending order according to the amount paid by them for buying ticket from left to right.



88. (4)

89. (5)

90. (3)

91. (1)

92. (4)

**93-97.**

Given “J’s market opens on Wednesday and has 62 shops, which is only less than Sunday market. So, from this we get that the Wednesday market is owned by J and has 2nd highest number of shops and Also Sunday market has the highest number of shops. Monday market owned by P. The number of shops in Tuesday market is half of that of market owned by J.”, we get number of shop in Tuesday market is 62/2=31.

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Day	Owner	Number of shops
Monday	P	
Tuesday		31
Wednesday	J	62
Thursday		
Friday		
Saturday		
Sunday		

Given “K’s market has 17 shops, which more than only Monday market.”, so we get Monday market shop has the least number of shop.

So, The number of shops in Monday market is an odd number which is less than 17, so it can be 1, 3, 5, 7, 9, 11, 13 and 15, The number of shops in Sunday market is square of the number of shops in Monday market which is owned by P and we know that Sunday market has the highest number of shops so it should be greater than 62 hence number of shops on Sunday market can be 81,121,169,225 respectively. But since L shop is average of Sunday and Monday shops and cannot be greater than 62. So, the only possibility left is Monday’s market number of shops-9, Sunday’s market number of shops-81 and L’s market has number of shops-45.

Day	Owner	Number of shops
Monday	P	9
Tuesday		31
Wednesday	J	62
Thursday		
Friday		
Saturday		
Sunday		81

Given “Only J’s and M’s market has even number of shops. M’s market, which has shop as multiple of 19”, So M’s market can have number of shops as 38,76... but it cannot be 76 as, then it becomes 2nd highest, but we know that J’s market has 2nd highest number of shop. Therefore, M’s market has 38 number of shops.

Also From “One day gap between market owned by L and M’s market, which has shop as multiple of 19. Market owned by L is not open on Saturday. L’s market opens before N’s market but after O’s market.”, we get, L’s market is open on Thursday, M’s on Saturday. So, the final arrangement is:

Day	Owner	Number of shops
Monday	P	9
Tuesday	O	31
Wednesday	J	62
Thursday	L	45
Friday	K	17
Saturday	M	38
Sunday	N	81

93. (3)

94. (4)

95. (3)

96. (2)

97. (4)

98. (5)

99. (1)

100. (3)