





Travelling till 2:00 + 1 hour = 3:00 PM  
So, Distance travelled by man till 3:00 pm = 45 km  
Again, Distance travelled by another man till 3:00 pm = 25 km  
So, Time to cross one-another

$$= \frac{45 - 25}{25 - 15} = 2 \text{ hours}$$

Hence, Required time = 3 : 00pm + 2hours

$$= 5 : 00pm$$

57. (A) ATQ,

$$47\% - 35\% = 36$$

$$\Rightarrow 12\% = 36$$

$$\Rightarrow 100\% = 300$$

Hence, maximum number = **300**

58. (B) ATQ,

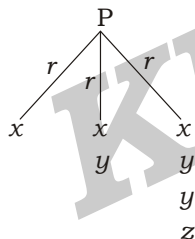
$$\text{Required value} = \frac{90 \times 100}{(100 - 25)} = \mathbf{120}$$

59. (B) ATQ,

$$\text{Total present age} = 30 \times 3 + 6 \times 3 = 108 \text{ years}$$

$$\text{then, Required age} = 108 - (46 \times 2 + 3 \times 2) = \mathbf{10 \text{ years}}$$

60. (B) ATQ,



$$\text{then, } y = 9 \quad \text{and}$$

$$3y + z = 29$$

$$\Rightarrow z = 2$$

$$\text{Hence, Required rate} = \frac{2}{9} \times 100 = \frac{\mathbf{200}}{\mathbf{9}} \%$$

61. (A) ATQ,

$$a^3 + b^3 + c^3 = 3abc$$

$$\text{then, } a + b + c = 0$$

$$\text{Hence, } (a + b + c)^3 = \mathbf{0}$$

62. (B) ATQ,

$$x + \frac{1}{x} = 9 \text{ -----(i)}$$

taking cube on both sides

$$\Rightarrow x^3 + \frac{1}{x^3} = 729 - 27 = 702 \text{ -----(i)}$$

Taking square of both sides of equation (i)

$$\Rightarrow x^2 + \frac{1}{x^2} = 9^2 - 2 = 79 \text{ -----(ii)}$$

multiply equation (ii) and equation (iii)

$$x^5 + \frac{1}{x^5} + x + \frac{1}{x} = 702 \times 79$$

$$\Rightarrow x^5 + \frac{1}{x^5} = 55458 - 9 = \mathbf{55449}$$

63. (B) ATQ,

$$a(a + b + c) : b(a + b + c) : c(a + b + c)$$

$$45 : 75 : 105$$

$$\Rightarrow a : b : c$$

$$9 : 15 : 21$$

$$\mathbf{3 : 5 : 7}$$

64. (D) ATQ,

$$x^2 + \frac{1}{x^2} = 1$$

square on both sides,

$$\Rightarrow x + \frac{1}{x} = \sqrt{3}$$

Taking cubes on both sides,

$$\Rightarrow x^3 + \frac{1}{x^3} = 3\sqrt{3} - 3\sqrt{3} = 0$$

$$\Rightarrow x^6 + 1 = 0$$

$$\text{then, } x^{36} (x^6 + 1) + x^{24} (x^6 + 1) + x^2 (x^6 + 1) + 3 = \mathbf{3}$$

[  $\therefore x^6 + 1 = 0$  ]

65. (D) ATQ,

$$4x + 3x + 3x = 40$$

$$\Rightarrow x = 4$$

So, sides = 12, 12 and 16

$$\text{then, area of triangle} = \frac{1}{2} \times 16 \sqrt{12^2 - \frac{16^2}{4}}$$

$$= \frac{1}{2} \times 16 \sqrt{80}$$

$$= 32\sqrt{5} = \mathbf{71.55 \text{ cm}^2}$$

66. (B) ATQ,

$$\angle ABD = 90^\circ \quad (\text{angle made in semicircle})$$

$$\text{So, } \angle CBE = 30^\circ$$

$$\text{and } \angle ECB = 180^\circ - 60^\circ = 120^\circ$$

$$[\therefore \angle ACB = 60^\circ, \text{ angle of equilateral triangle}]$$

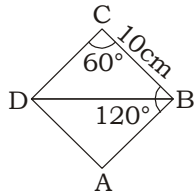
$$\text{then, } \angle CEB = 180^\circ - 120^\circ - 30^\circ = 30^\circ$$

$$\text{Hence, } \angle CEB : \angle CBE$$

$$\Rightarrow 30^\circ : 30^\circ$$

$$\Rightarrow \mathbf{1 : 1}$$

67. (B) ATQ,



$\angle DCB = 60^\circ$   
then,

$\triangle BCD$  is an isosceles triangle because  $BC = CD$

So,  $\angle CDB = \angle CBD = 60^\circ$

Hence,  $\triangle BCD$  is an equilateral triangle with side **10cm**

68. (C) ATQ,

$$\frac{x(x-3)}{2} = 2x$$

$$\Rightarrow x = 7$$

Hence, Required sum =  $7 + 2 \times 7 = 21$

69. (B) ATQ,

$$\frac{\sin 2A}{(1+\tan^2 A) \cot A} = \frac{2 \sin A \cos A}{\sec^2 A \times \frac{\cos A}{\sin A}}$$

$$= \frac{2 \sin A \times \cos A \times \sin A \times \cos A \times 2}{2} = \frac{\sin^2 2A}{2}$$

70. (C) ATQ,

$$\frac{\operatorname{cosec} A}{\tan A + \cot A} = \frac{\operatorname{cosec} A}{\frac{\sin^2 A + \cos^2 A}{\sin A \cos A}}$$

$$= \frac{\sin A \cos A}{\sin A} = \cos A = \frac{1}{\sec A}$$

71. (C) ATQ,

$$1 + \tan A \tan \frac{A}{2} = \frac{\tan A - \tan \frac{A}{2}}{\tan \left( A - \frac{A}{2} \right)}$$

$$= \frac{\tan A}{\tan \frac{A}{2}} - \frac{\tan \frac{A}{2}}{\tan \frac{A}{2}}$$

$$= \cot \frac{A}{2} \tan A - 1$$

72. (B) ATQ,

$$\text{Required difference} = \frac{23-13}{100} \times 1400 = 140$$

73. (C) ATQ, Ratio

Avg. for Nike and Adidas : Avg. for remaining brand

$$\frac{(18+25)}{100} \times 1400 : \frac{(100-43) \times 1400}{3 \times 100}$$

$$43 : 38$$

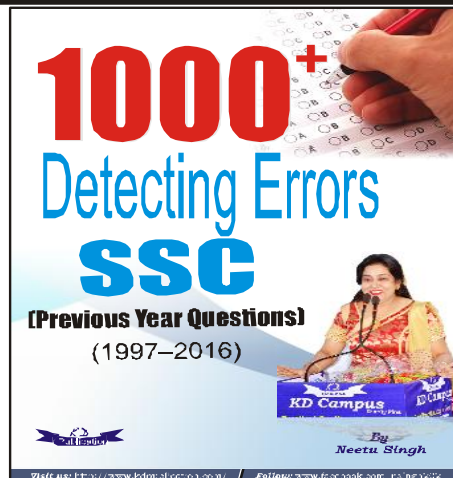
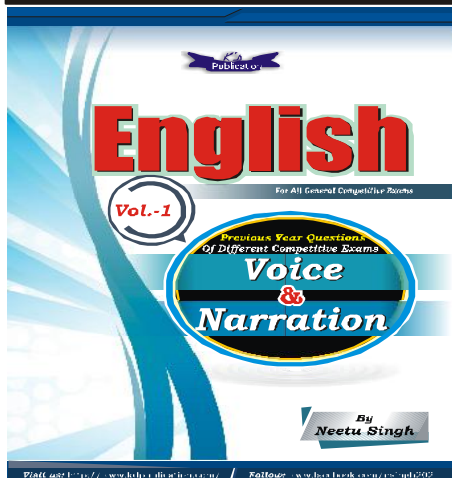
74. (B) ATQ,

$$\text{Required sum} = \frac{(21+13+23)}{100} \times 1400 = 798$$

75. (A) ATQ,

$$\text{Total number} = \frac{18 \times 1400}{100} = 252$$

**Indispensable Books to score 180<sup>+</sup> in English**



**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
<b>Agglutinate</b>	To cause to adhere	चिपकाना
<b>Catechumen</b>	One receiving instruction in the basic doctrines of Christianity	ईसाइ धर्म के मूलभूत शिक्षा ले रहा अनुयायी
<b>Cleave</b>	To split or sever (something) especially along a natural line	विभाजित करना
<b>Conductor</b>	The leader of a musical ensemble	संगीत निर्देशक
<b>Excoriate</b>	To censure scathingly	जम के डाँटना
<b>Flay</b>	To strip off the skin or surface	चमड़ी उतारना
<b>Gnome</b>	An ageless and often deformed dwarf	बोना आदमी
<b>Heave</b>	Lift or haul (something heavy)	भारी समान उठाना
<b>Hew</b>	To cut with blows of a heavy cutting instrument	कुल्हाड़ी से काटना
<b>Maestro</b>	A master usually in an art	निपुण
<b>Neophyte</b>	A person who is new to a subject	नौसिखिया
<b>Peel</b>	To strip off an outer layer of	बाहरी परत निकालना
<b>Prune</b>	To cut off dead or unwanted parts of a bush or tree	छँटाई करना
<b>Runt</b>	A person of small stature	छोटे कद का आदमी
<b>Scalp</b>	The part of the integument of the human head usually covered with hair	खोपड़ी
<b>Sheath</b>	A case for a sword	म्यान
<b>Sheath</b>	An investing cover or case of a plant or animal body	आवरण
<b>Shrimp</b>	A person small in height	नाटा आदमी
<b>Sophomore</b>	A student in the second year of college	दूसरे वर्ष का छात्र
<b>Troll</b>	A dwarf or giant in Scandinavian folklore inhabiting caves or hills	बौना आदमी
<b>Troll</b>	To cause to move round and round	गोल गोल घुमाना
<b>Wimp</b>	A weak, cowardly or ineffectual person	कमजोर आदमी
<b>Worthwhile</b>	Being worth the time or effort spent	लाभप्रद

**SSC MOCK TEST - 116 (ANSWER KEY)**

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

82. (A) The sentence is in active voice. Thus replace 'to be asked' with 'to ask'.
83. (A) 'Knocked out by someone' means 'to make someone unconscious'.
90. (A) Hardly, scarcely, rarely etc are negative adverbs. They have negative meaning so we use them without another negative word. The correct sentence will be 'Mother hardly knows...'. So remove 'not' from part 'A'.
91. (B) Replace 'doors' with 'door'.

77. (A)  
91. (D)  
92. (B)  
93. (A)  
99. (C)

Mock 115 Corrections

**Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003**

**Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.**

**Note:- If you face any problem regarding result or marks scored, please contact 9313111777**