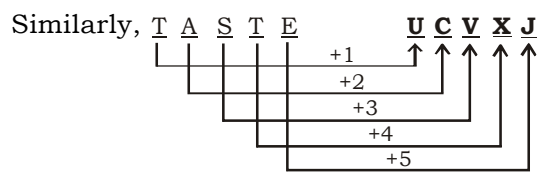
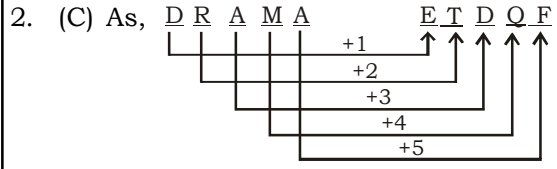


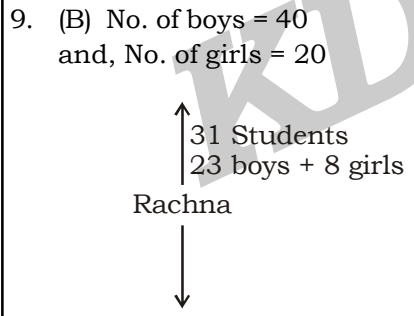


SSC MOCK TEST - 145 (SOLUTION)

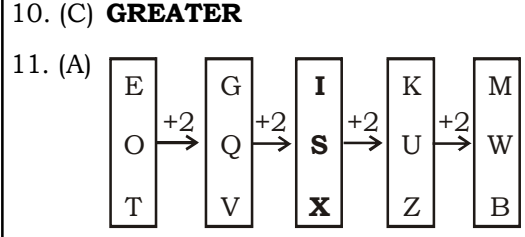
1. (D) Machine follows the instructions of Man. Similarly, Slave follows the instructions of Master.



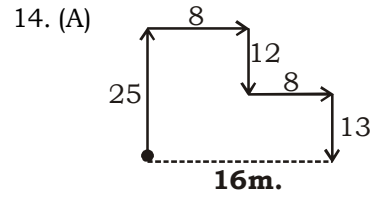
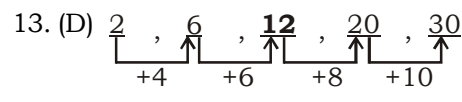
- 3. (A) As, 8 => (8)^2 + (8 / 2) = 68
Similarly, 10 => (10)^2 + (10 / 2) = 105
4. (D) Except Rome, others are country.
5. (C) Except 728, others are odd numbers.
6. (C) Except LORU, others have difference of 2 letters between two consecutive letters.
7. (C) DERMATOLOGY -> DORMANT -> DRAMATIC -> DRAPERY -> DROWSY
8. (B) Last flight's time = 10 : 45 am - 25 minutes = 10 : 20 am
.: Next flight's time = 10 : 20 am + 5 : 45 hours = 4 : 05 pm



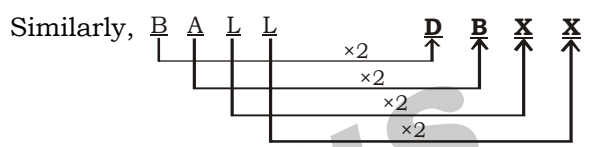
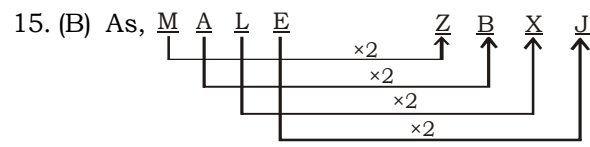
.: No of girls after Rachna = 20 - (8 + 1) = 11



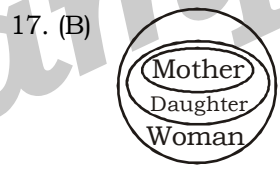
12. (B) A, D, I, P, Y, J
(1)^2 (2)^2 (3)^2 (4)^2 (5)^2 (6)^2



.: Required distance = 8 + 8 = 16 m



16. (A) 27 + 9 x 28 = 343 - 49
After changing the signs as per the given details,
27 x 9 - 28 + 343 / 49 = 222



18. (A)
19. (B) Apple, Guava, Grapes

I. False II. False

.: Neither conclusion I nor II follows

- 20. (A)
21. (A) 5^2 x 3^2 = 225, 2^2 x 4^2 = 64, 3^2 x 9^2 = 729
22. (D) (8 + 7) x 2 = 30, (9 + 3) x 5 = 60, (7 + 4) x 7 = 77
23. (B) 24.(A) 25.(C)

27. (A) Credit is a contractual agreement in which a borrower receives something of value now and agrees to repay the lender at some date in the future, generally with interest. It is also known as loan. Credit also refers to an accounting entry that either decreases assets or increases liabilities and equity on the company's

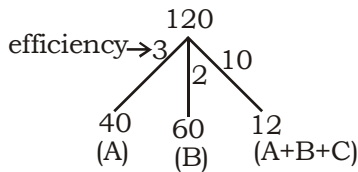
- balance sheet.
28. (C) Money bills passed by the Lok Sabha are sent to the Rajya Sabha. The Rajya Sabha may not amend money bills but can recommend amendments. To make sure that Rajya Sabha doesn't amend the bill by adding some non-money matters, the Speaker of the Lok Sabha certifies the bill as a money bill before sending it to the upper house, and the decision of the Speaker is binding on both the Houses. A money bill must be returned to the Lok Sabha within 14 days, or the bill is deemed to have passed by both the houses in the form it was originally passed by the Lok Sabha.
29. (D) The main mineral constituents of the continental mass are Silica and Alumina. Thus it is called sial (si-silica and al-alumina). The oceanic crust mainly consists of Silica and Magnesium; therefore it is called sima (si-silica and ma-magnesium).
30. (A) Thiamine deficiency, also known as beriberi, is a condition that occurs due to not enough thiamine (vitamin B1). There are two main types in adults: wet beriberi, and dry beriberi. Wet beriberi results in a fast heart rate, shortness of breath, and leg swelling. Dry beriberi results in numbness of the hands and feet, confusion, trouble moving the legs, and pain.
31. (D) A periscope is an instrument for observation over, around or through an object, obstacle or condition that prevents direct line-of-sight observation from an observer's current position. In its simplest form, it consists of an outer case with mirrors at each end set parallel to each other at a 45° angle.
32. (B) Microsoft Word is a popular word-processing application that is included in the software suite of applications called Microsoft Office.
33. (D) Metathesis reactions in which two compounds react to form two new compounds, with no changes in oxidation number. Reactions in which the ions of two compounds exchange partners. Examples of metathesis reactions $\text{NaCl(aq)} + \text{AgNO}_3\text{(aq)} = \text{AgCl(s)} + \text{NaNO}_3\text{(aq)}$
34. (B) Parasitism, relationship between two species of plants or animals in which one benefits at the expense of the other, sometimes without killing the host organism. Examples of Parasitism: Fleas or ticks that live on dogs and cats are parasites.
35. (C) The adding machine was invented by a nineteen-year-old French boy named Blaise Pascal way back in the year 1642. He was France's most celebrated mathematician physicist and religious philosopher.
36. (D) "Al Nagah-II", the bilateral exercise was conducted between India and Oman in the Dhauladhar Ranges at Bakloh in Himachal Pradesh from March 6, 2017.
38. (A) NNP is the money value of all the goods and services produced within the domestic territory of a country in an accounting year corrected for net income from abroad and depreciation.
- $\text{NNP} = \text{GNP} - \text{Depreciation}$
39. (D) Conservation of Foreign Exchange and Prevention of Smuggling Activities (COFEPOSA) Act is an Act of the Parliament passed in 1974 during administration of Indira Gandhi, trying to retain foreign currency, prevent smuggling and economic offences.
40. (A) The Central Government can direct the state Governments under article 256 of the Indian Constitution.
42. (C) Bimbisara, one of the early kings of the Indian kingdom of Magadha. He established the Haryanka dynasty laid the foundations of Magadha by fortification of a village, which later became the city of Pataliputra.
43. (A) The Quit India Movement also known as India August Kranti was launched at the Bombay session of the All India Congress Committee (AICC) by Mahatma Gandhi on August 8, 1942.
46. (D) Lignite is a mineral known as brown diamond. It is considered the lowest rank of coal due to its relatively low heat content. It has carbon content around 60-70 percent.
48. (B) Steam produces more severe burns. Because steam (water in the gas phase)

hits your skin, a lot of energy will be released as it condenses into a liquid.

49. (C) Kidney stones form when your urine contains more crystal-forming substances such as Calcium oxalate and Uric acid.

50. (C) Argon is a chemical element with symbol Ar and atomic number 18. Argon is the third-most abundant gas in the Earth's atmosphere, at 0.934%

51. (A) Total capacity

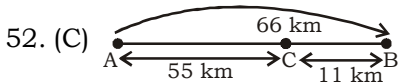


C's efficiency = efficiency of (A + B + C) - efficiency of (A + B)

$$= 10 - (3 + 2) = 5 \text{ Units/hour}$$

Hence, C can fill the cistern alone in $\frac{120}{5}$

$$= \mathbf{24 \text{ hours}}$$



52. (C) Distance covered by Chand = AB + BC

$$= 66 + 11 = 77 \text{ km}$$

Distance covered by Sonu = AC = 55 km

	Sonu	Chand	
Distance	55	77	
Speed	5	7	$\therefore [D \propto S]$
	<div style="border: 1px solid black; width: 100px; height: 10px; margin: 0 auto;"></div> Difference = 2 units = 4 (given)		
	$\therefore 1 \text{ unit} = 2$		

Hence, speed of Chand = $7 \times 2 = \mathbf{14 \text{ km/hr}}$

53. (B) ATQ,

$$\frac{3}{8} \text{ of } \frac{20}{9} + 15 \div \frac{5}{3} - \frac{5}{6}$$

$$\Rightarrow \frac{3}{8} \times \frac{20}{9} + 15 \times \frac{3}{5} - \frac{5}{6}$$

$$\Rightarrow \frac{5}{6} + 9 - \frac{5}{6} = \mathbf{9}$$

54. (C) ATQ,

$$\frac{\sqrt{216} - \sqrt{24}}{\sqrt{96}}$$

$$= \frac{6\sqrt{6} - 2\sqrt{6}}{4\sqrt{6}} = \frac{4\sqrt{6}}{4\sqrt{6}} = \mathbf{1}$$

55. (A) $x - y = 5$

$$\text{and, } xy = 24$$

we know that

$$\Rightarrow (x - y)^2 = x^2 + y^2 - 2xy$$

$$\Rightarrow 25 = x^2 + y^2 - 2 \times 24$$

$$\Rightarrow x^2 + y^2 = 25 + 48 = 73$$

$$\text{Now, } \frac{x}{y} + \frac{y}{x}$$

$$= \frac{x^2 + y^2}{xy} = \frac{\mathbf{73}}{\mathbf{24}}$$

56. (B) ATQ,

$$\frac{A + B + C}{3} = C + 6$$

$$\Rightarrow A + B + C = 3C + 18$$

$$\Rightarrow A + B - 2C = 18 \dots (i)$$

and, $A + B = 46 \dots (ii)$

From equation (i) and (ii), we get

$$46 - 2C = 18$$

$$\Rightarrow 2C = 28$$

$$\Rightarrow C = \mathbf{14 \text{ years}}$$

57. (D) ATQ,

$$\text{HCF} = 9$$

Let the two numbers be $9a, 9b$

$$\text{So, } 9a + 9b = 99$$

$$\Rightarrow 9(a + b) = 99$$

$$\Rightarrow a + b = 11$$

Hence, pair of positive integer are (1, 10), (2, 9), (3, 8), (4, 7), (5, 6)

\therefore Required number of pairs = $\mathbf{5}$

58. (C) Profit = Time \times Capital invested

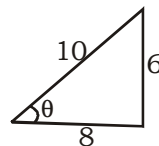
$$\Rightarrow \text{Time} = \frac{\text{Profit}}{\text{Capital invested}}$$

$$\therefore \text{Required Ratio of time} = \frac{3}{\frac{1}{2}} : \frac{4}{\frac{1}{3}} : \frac{6}{\frac{1}{5}}$$

$$\Rightarrow 6 : 12 : 30$$

$$\Rightarrow \mathbf{2 : 4 : 10}$$

59. (B) Given, $\cos\theta = 0.8 = \frac{8}{10}$

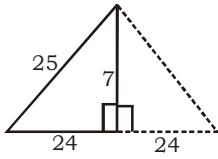


$$\therefore \sin\theta = \frac{6}{10}$$

Hence, $\sin 2\theta = 2\sin\theta \cos\theta$

$$= 2 \times \frac{6}{10} \times \frac{8}{10} = \frac{96}{100} = \mathbf{0.96}$$

60. (A) ATQ,

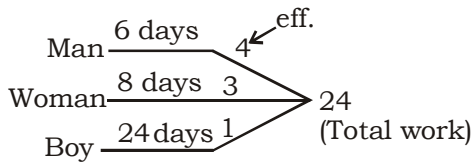


$$\text{Volume} = \frac{1}{3} \pi r^2 h$$

$$= \frac{1}{3} \times \frac{22}{7} \times 24 \times 24 \times 7$$

$$= \mathbf{4224 \text{ cm}^3}$$

61. (D)



ATQ,

$$\text{Total work to be done} = 24 \times \frac{3}{4} = 18 \text{ units}$$

(1M + 1W) do (3 + 4 = 7 units) work in a day

So, number of boys required = 18 - 7 = **11**

62. (A) Let the sum be 100x.

C.I. for 2 years at 14% = 29.96 x.

S.I. for 2 years at 14% = 28 x.

ATQ,

$$CI - SI = 245$$

$$\Rightarrow 1.96x = 245$$

$$\Rightarrow x = 125$$

$$\therefore \text{Sum} = 125 \times 100 = \mathbf{\text{₹}12500}$$

63. (B) ATQ,

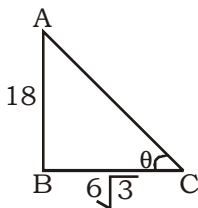
$$19993 \times 20007$$

$$= (20000 - 7) \times (20000 + 7)$$

$$= (20000)^2 - (7)^2$$

$$= \mathbf{399999951}$$

64. (C) $\tan \theta = \frac{AB}{BC} = \frac{18}{6\sqrt{3}}$



$$\Rightarrow \tan \theta = \frac{18}{6\sqrt{3}} = \sqrt{3}$$

$$\Rightarrow \tan \theta = \tan 60^\circ$$

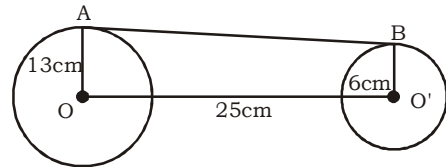
$$\therefore \theta = \mathbf{60^\circ}$$

65. (D) ATQ,

$$\text{Volume of tetrahedron} = \frac{\sqrt{2}}{12} (\text{Side})^3$$

$$= \frac{\sqrt{2}}{12} (6)^3 = \mathbf{18\sqrt{2} \text{ cm}^3}$$

66. (B) Length of direct common tangent



$$AB = \sqrt{(OO')^2 - (r_1 - r_2)^2}$$

$$\Rightarrow AB = \sqrt{(25)^2 - (13 - 6)^2}$$

$$\Rightarrow AB = \sqrt{625 - 49} = \sqrt{576}$$

$$\Rightarrow AB = \mathbf{24 \text{ cm.}}$$

67. (B) Let CP of article = ₹100

then, SP of chair = (100 - 25) = 75

ATQ,

$$75 \text{ units} = 720$$

$$\therefore 125 \text{ units} = \frac{720}{75} \times 125 = \mathbf{\text{₹}1200}$$

So, New SP = ₹1200

$$\text{Now, SP} = \frac{3}{4} \text{MP}$$

$$\Rightarrow 1200 = \frac{3}{4} \text{MP}$$

$$\Rightarrow \text{MP} = 1200 \times \frac{4}{3}$$

$$= \mathbf{\text{₹}1600}$$

68. (C) ATQ,

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A}$$

$$= \frac{\cos^2 A + \sin^2 A + 2\sin A + 1}{(1 + \sin A)\cos A}$$

$$= \frac{\cos^2 A + \sin^2 A + 1 + 2\sin A}{(1 + \sin A)\cos A}$$

$$= \frac{1 + 1 + 2\sin A}{(1 + \sin A)\cos A} = \frac{2(1 + \sin A)}{(1 + \sin A)\cos A}$$

$$= \frac{2}{\cos A} = \mathbf{2 \sec A}$$

69. (A) Let second discount be x.

ATQ,

$$12 \times \frac{85}{100} \times \frac{(100 - x)}{100} = 8.16$$

⇒ $x = 20\%$

$$\begin{aligned} 70. (B) \quad 5^6 - 1 &= (5^3)^2 - 1 \\ &= (125)^2 - (1)^2 \\ &= (125 - 1)(125 + 1) \\ &= 124 \times 126 \end{aligned}$$

Since 124 is divisible by 31. Hence, $5^6 - 1$ is divisible by **31**.

71. (D) Let the roots of equation

$$x^2 - (A - 3)x - (A - 7) = 0 \text{ are } \alpha \text{ and } \beta$$

$$\text{Sum of roots} = \alpha + \beta = -\frac{b}{a} = A - 3$$

$$\text{Product of roots} = \alpha \beta = \frac{c}{a} = -(A - 7)$$

ATQ,

$$\alpha^2 + \beta^2 = 0$$

$$\Rightarrow (\alpha + \beta)^2 - 2\alpha \times \beta = 0$$

$$\Rightarrow (A - 3)^2 + 2(A - 7) = 0$$

$$\Rightarrow A^2 - 4A - 5 = 0$$

On solving, it we get

$$A = 5, -1$$

$$\begin{aligned} 72. (B) \text{ Required number of cars} &= \frac{120^\circ}{360^\circ} \times 10800 \\ &= \mathbf{3600} \end{aligned}$$

$$\begin{aligned} 73. (B) \text{ Required percentage} &= \frac{120^\circ - 40^\circ}{120^\circ} \times 100 \\ &= \mathbf{66.66} \end{aligned}$$

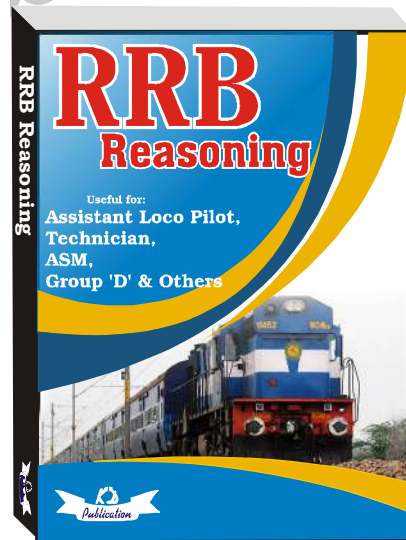
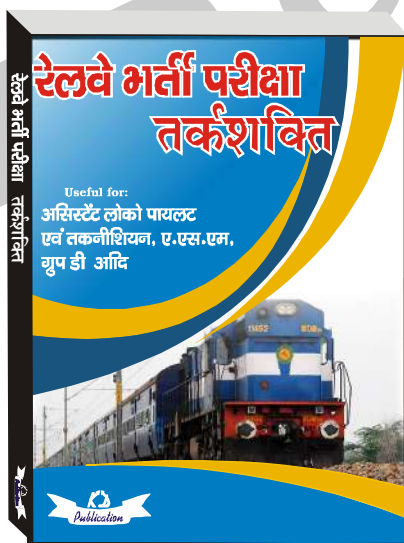
$$74. (A) \text{ Required Ratio} = 60^\circ : 50^\circ = \mathbf{6 : 5}$$

75. (C) Required Answer

$$= \frac{(90^\circ + 60^\circ) - (40^\circ + 50^\circ)}{360^\circ} \times 10800$$

$$= \frac{60^\circ}{360^\circ} \times 10800 = \mathbf{1800}$$

For all RRB competitive exams



MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Accuse	to say that someone has done something wrong or illegal	दोष लगाना
Amateur	someone who does not have much skill in what he does	नौसिखिया
Attain	to reach or succeed in getting something	पहुँचना
Autonomous	Independent and having the power to make your own decisions.	स्वतंत्र
Barrage	the action of continuously firing large guns to protect soldiers advancing on an enemy	गोलाबारी
Bleed	to lose or release blood because of a cut, injury etc.	खून बहना
Compendium	a short but complete account of a particular subject especially in the form of a book	संग्रहपुस्तक
Condemn	to criticize something or someone strongly, usually for moral reasons.	दोषी ठहराना
Deed	an intentional act, especially a very bad or good one.	कार्य, काम
Denounce	to criticize someone or something strongly and publicly	दोषी ठहराना
Dispirited	not feeling much hope about a particular situation or problem.	उदासीन, हतोत्साहित
Emetic	a medicine that causes vomiting.	वमनकारी औषधि
Emulate	to copy someone's behaviour or try to be like someone else	अनुकरण करना
Envelop	to cover or surround something completely	घेरना
Expansion	the increase of something in size, number or importance	विस्तार
Experiment	a test done in order to learn something or to discover if something works or is true.	परीक्षण करना
Exploration	the activity of searching and finding out about something:	खोज
Mausoleum	a special building made to hold the dead of an important person or the dead bodies of a family.	मकबरा, समाधि
Netiquette	the rules of correct or polite behaviour among people using the internet.	इंटरनेट पर सही और सभ्य तरीके से व्यवहार करने का नियम
Outline	the main shape or edge of something, without any details	दर्शाना
Precis	a short form of a text that gives only the important parts	सारांश, संक्षेप
Primordial	existing at or since the beginning of the world or the universe	मौलिक, प्रारंभिक
Pyre	a large pile of wood on which a dead body is burned in some parts of the world	चिता, शव शैया



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Reference	a mention of something	संदर्भ, टिप्पणी
Ruse	a trick intended to deceive someone.	चाल, छल
Steed	a horse that is ridden	घोड़ा
Timid	easily frightened	डरपोक
Trick	a action that is intended to deceive, either as a way of cheating someone, or as a joke or form of entertainment	छलकपट
Valise	a small suitcase for carrying clothes etc. (while travelling.)	सफरी बैग
Volley	a large number of bullets (seeming to be) fired at the same time	गोलियों की बौछार
Weary	very tired, especially after working hard for a long time	थकाना

Fill In The Blanks

SSC

**(Previous Year Questions)
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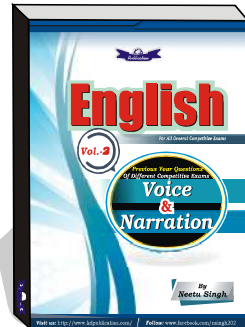
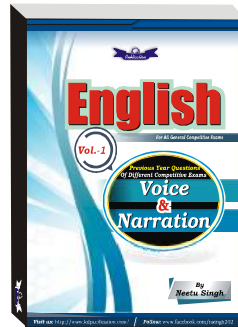
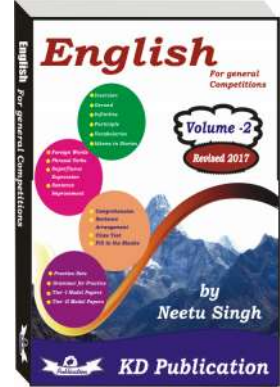
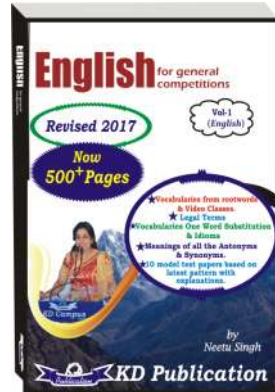
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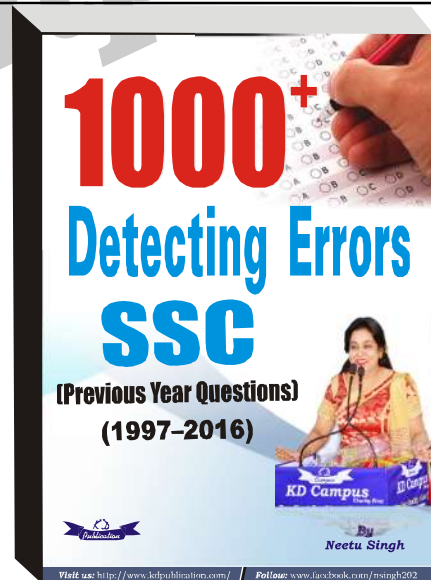
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SSC MOCK TEST - 145 (ANSWER KEY)

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



76. (A) Change 'considerable' into 'considerably'. Here, difficult is an adjective and an adjective is modified by an adverb.
77. (A) Change 'retiring' into 'retirement' we need here a noun, and the noun form of 'retire' is retirement.
86. (C) 'Has been growing upon' is the correct option, According to the meaning of the sentence, it should be in present perfect continuous tense.
87. (D) No improvement, 'Bear fruit' is a phrase which means to be successful. According to the meaning, sentence should be in present perfect tense.



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