# SSC MOCK TEST – 178 (SOLUTION)

1. (C) As, $332 : 11 \to 3 \times 3 + 2 = 11$
Similarly, $843 : 35 \to 8 \times 4 + 3 = $ **35**

2. (C) As, Poet writes a poem based on imagination
Similarly, Historian writes history based on **Facts**.

3. (B) As, CE : 34 $\to$ C E $\to 3^2 + 5^2 = 34$
       3 5
Similarly, DH : 80 $\to$ D H $\to 4^2 + 8^2 = $ **80**
          4 8

4. (B) $U - 12 \to U (21) \to 12$
P – 71 $\to$ P (16) $\not\to$ 17
$G - 70 \to G (07) \to 70$
$X - 42 \to X (24) \to 42$

5. (C) $10064 \to 80 \Rightarrow \sqrt{100} \times \sqrt{64} = 10 \times 8 = 80$
$14481 \to 108 \Rightarrow \sqrt{144} \times \sqrt{81} = 12 \times 9 = 108$
$12149 \to 66$ $\Rightarrow \sqrt{121} \times \sqrt{49} = 11 \times 7 \ne 66$
$32416 \to 72 \Rightarrow \sqrt{324} \times \sqrt{16} = 18 \times 4 = 72$

6. (D) Except '**whistle,**' others are music instruments.

7. (B) **25143**

8. (D) 49   57   84   209   552   1883   **4080**
          2^3 3^3 5^3 7^3 11^3 13^3

9. (D) $D \xrightarrow{+1} E \xrightarrow{-3} B \xrightarrow{-1} A$
$S \xrightarrow{+1} T \xrightarrow{-3} Q \xrightarrow{-1} P$
$L \xrightarrow{+1} M \xrightarrow{-3} J \xrightarrow{-1} I$
$U \xrightarrow{+1} V \xrightarrow{-4} R \xrightarrow{+1} S$

10. (A) N$^-$ ─── K$^+$ ─── B$^+$ ─── P$^-$
                    │   │
                   C$^-$ ─── T$^=$ ─── M$^+$
∴ N is **paternal aunt** of T.

11. (A) Required position = 15 – (7+4) +1
∴ Neha is **fifth** from the right end.

12. (B) **FAULTY**

13. (C) As, E N G L I S H = 74 $\to$ 7×4
         ↓ ↓ ↓ ↓ ↓ ↓ ↓
         5 +14 +7+12+9+19+8
= 28
and E N G A G E = 39 $\to$ 3×9 = 27
       ↓ ↓ ↓ ↓ ↓ ↓
       5 +14 +7+ 1 +7+ 5
Similarly, F A C T O R S = 82 $\to$ 8×2
            ↓ ↓ ↓ ↓ ↓ ↓ ↓
            6 + 1 +3 +20+15+18+19
= **16**

14. (D) 18 Ω 78 γ 13 δ 17 α 29
After interchanging sings as per given details,
$18 \times 78 \div 13 - 17 + 29 = $ **120**

15. (C) As, $18\Omega10 = 24 \to (18 - 10) \times 3 = 24$
and $14\Omega8 = 18 \to (14 - 8) \times 3 = 18$
Similarly, $22\Omega18 = 12 \to (22 - 18) \times 3 = $ **12**

16. (B) As, $4^2 - 3^2 - 1^2 = 6$
and $7^2 - 5^2 - 3^2 = 15$
Similarly, $11^2 - 9^2 - 2^2 = $ **36**

17. (A) As,
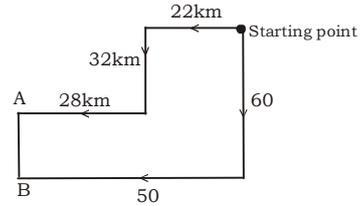
Required distance = 60 – 32 = 28km
∴ B is **28km South** of A.

18. (C) Cup ─×─ Pen ─×─ Robot ─×─ Car
I. True
II. Can't say
III. Cant' say
∴ Only I and either II or III follow.

19. (C) **310kg**

20. (A)

21. (C)

22. (C)

23. (D)

24. (C)

25. (D)   L   E   A   R   N
          ↓   ↓   ↓   ↓   ↓
         87   69   58   67   88

26. (B) On December 23,2018 the state Minister for culture and Tamil Development shri K Pandiarjan announced sitting up of the country's first music musem in thiruraiyare, Tamilnadu.

27. (B) Prime Minister Narendra Modi embarked on a one-day visit to the state of Odisha. He inaugurated the Lalitgiri Archaeological Museum. Lalitgiri in Odisha is a famous Buddhist centre of archaeological importance, comprising Stupa, Viharas (monastries) and image of Lord Buddha.

28. (A) On December 23,2018, state-owned Punjab National Bank in collabortion with Uttar Pradesh government launched a special card called PNB Rupay Card, for kumbh Mela 2019. It is aimed to create a model for digitization at this edition of kumbh Melfa for convenient and hassle-free transactions for the participating 12 core devoteds.

30 (B) On 23rd December 2018, National Farmer's Day (NFD) was celebrated throughout the country to acknowledge the role of farmers in India's socio-economic development and to mark the birth anniversary of Indian farmer's leader and 5th Prime Minister of India Shri Chaudhary Charan Singh.

31. (D) On December 24, 2018, Ministry of Consumer Affairs, Food and Public Distribution celebrated National Consumer Day 2018 with the theme "Timely Disposal of Consumer Complaints" at Kothari Auditorium, DRDO Bhawan in New Delhi.

32. (D) On December 1, 2018, the President of India, Shri Ram Nath Kovind, inaugurated the four day 13th edition of CII Agro Tech India-2018 in Chandigarh. The theme for the 2018 edition was "Technology in Agriculture: Increasing Farmer's Income". Great Britain was the partner country while the focus countries were Canada and China.

33. (B) The 19th Hornbill Festival 2018 is celebrated from 1st to 10th December 2018 in Nagaland. The Hornbill Festival is one of the most cherished festivals of Nagaland. It is named after Hornbill, one of the most venerated bird species in the state.

34. (D) India's first international indigenous film festival will take place in February next year in Odisha. It will be an initiative of activist film collective 'Video Republic'. The three-stop event will kick off in Bhubaneswar on February 19 and 20, moving on to Puri from February 21 to 23 and will eventually culminate in an interaction with the adivasi communities at Niyamgiri

37. (D) On 28th November 2018, the bilateral KONKAN exercise between the Indian Navy and the Royal Navy of the United Kingdom started off at Goa. KONKAN-2018 will be conducted from 28 Nov to 06 Dec 2018.

38. (B) On November 28, 2018, the nine day long 49th International Film Festival of India (IFFI) 2018 concluded in Panaji, Goa. It showcased 217 films from over 68 countries. The Festival opened with World Premiere of 'The Aspern Papers'. The Closing film of IFFI 2018 was World Premier of 'Sealed Lips'.

39. (C) On November 28, 2018, the President appointed Shri Arvind Saxena as Chairman, Union Public Service Commission (UPSC) till 07. 08.2020, i.e., until he attains the age of 65 years.

42. (D) Accordint to chola inscription–
Vellanvagai – Non-Brahman, land
Brahmadeya – Land gifted to Brahman.
Shalabnoga – land gifted to place of education.

43. (A) The Reserve bank of India (RBI) is India's banking Institution, which controls the monetry policy of the India rupees. It commenced its operations on 1 April 1935 in a accordance with Reserve Bank of India Act 1934, the RBI was nationalised on 1 January 1949.

44. (B) Some important special provision for Indian State, according to Indian constitution.
- Article - 371A → Special provision with respect to the state of Nagaland.
- Article-371B → Special provision with respect to the state of Assam.
- Article - 371D → Special provision with respect tot he stated Andhra Pradesh.
- Article - 371I → Special provision with respect to the stated of Goa.

45. (B) Some Importaint disease of plant and causes–
- Potato - Ring Rot, Brow Rot (Bacterial Disease)
- Cotton - Black Arm (Bacterial Disease)
- Sugarcane – Red Rot (Fungal Disease)
- Wheat – Rust (fungal sisease)
- Tobacco – Mosaic (Viral Disease)
- Rice – Blast (Fungal Disease)

46. (D) An Inert gas/nobel gas is a which does not undergo chemical reactions under a set of given conditions. The nobel gases often do not react with many substances and were historically reffered to as the inertgases, the most common inert gases hellium (He), argon (Ar), neon (Ne), Krypton (Kr), Xenon (Xe) and radon (Rn).

47. (B)

Disputes Territory	Country
Centa	Spain and Morocco
Glarioso Island	Madagascar and comoros
Doi Lang	Myanmar and Thailand

48. (B)
- The world outside of the Brontes, Jane Eyre, wuttering Heights - Emily Bronte
- The Blue Umbrella, the room on roof, A flight of Pipeons Angry River, the Hidden Pool - Ruskin Bond.
- Pride and Prejudice, Sense and Sensibility, the History of England – I.Jan Austen.
- A journey from this world to the next, the female husband, the histrory of Amelia – Henery fielding.

49. (A) Important Sculptures of India
- The Kangra fort – Himachal Pradesh
- Dilwara Temple – Mount Abu Rajasthan
- Qutub Minar – Delhi
- Mahishasure Mardini cave – Tamil Nadu.

51. (B) Effective discount = $40 + 10 - \dfrac{40 \times 10}{100}$

= 46%

52. (C) Required amount = $\dfrac{8}{28} \times 127820$

= ₹ 36520

53. (B)

Days   **Efficiency**

P – 30 — 6
Q – 12 — 180 — 15
R – 18 — 10

Total work done in a day → 31

A.T.Q.,
First three day work = $(15 + 10) \times 3$
= 75 units
Remaining work = $(180 - 75)$ = 105 units.
No. of days to finish remaining work

= $\dfrac{105}{31}$ = $3\dfrac{12}{31}$

∴ Required number of Days = $3 + 3\dfrac{12}{31}$

= $6\dfrac{12}{31}$ days

54. (A) Required value = $\dfrac{5}{2} \times \dfrac{16}{100} \times \dfrac{275}{100} \times \dfrac{7}{3} \times$

600 = **1540**

55. (D) Rate = $\dfrac{36}{3}$ = 12%

C.I. for 2 years

= $8000 \left[\left(1 + \dfrac{12}{100}\right)^2 - 1 \right]$

= ₹ **2035.2**

56. (B)
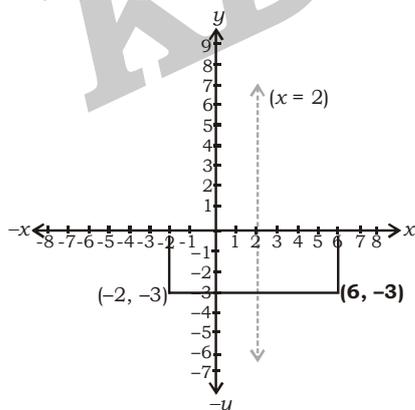
∴ Required point is **(6, –3)**

57. (B) Let slope of line l_1 and perpendicular line l_2 be m_1 and m_2 respectively.
ATQ.,

$m_1 = \dfrac{3 - 6}{2 - (-4)} = \dfrac{-1}{2}$ $\left(\because Slope = \dfrac{y_2 - y_1}{x_2 - x_1} \right)$

Required slope ⇒ $m_1 \cdot m_2 = -1$

⇒ $-\dfrac{1}{2} \cdot m_2 = -1$

⇒ $m_2 = 2$

58. (D) $\Delta ABC \sim \Delta PQR$ ___(Given)

$\dfrac{RQ}{BC} = \dfrac{\text{Perimeter of } \Delta PQR}{\text{Perimeter of } \Delta ABC}$

⇒ $\dfrac{RQ}{55} = \dfrac{4}{11}$

⇒ **RQ = 20cm.**

59. (A) Profit = SP – CP
⇒ 3 = 23 – CP
⇒ CP = 20

∴ Required percentage = $\dfrac{3}{20} \times 100$ = **15%**

60. (C) Time taken by P, Q and R to complete

one revolution is $\dfrac{24}{6}$, $\dfrac{24}{3}$ and $\dfrac{24}{\frac{8}{3}}$ hours

respectively.
∴ Required time to meet = LCM of (4, 8, 9)
= 72 hours.

61. (A) ATQ.,

$a + \dfrac{1}{a}$ = 9

⇒ $a - 9 = \dfrac{-1}{a}$ ...(i)

Now, $(a - 9)^{13} = -\dfrac{1}{a^{13}}$ ...(ii)

Putting equation (i) in equation (ii), we get.

$\left(-\dfrac{1}{a}\right)^{13} + \dfrac{1}{a^{13}}$ = **0**

62. (C) Let the number be x
ATQ.,

$x - \dfrac{9}{4x} = \dfrac{35}{4}$

⇒ $4x^2 - 9 = 35x$
⇒ $4x^2 - 35x - 9 = 0$

⇒ $x = -\dfrac{1}{4}$, 9

∴ Required number is **9**

63. (B)

	Iron	Copper	Zinc		Iron	Copper	Zinc
Alloy I	5 :		7 = 12	7 →	35 :	:	49
Alloy II	3 :	7 :	4 = 14	6 →	18 :	42 :	24
				Required ratio=	53 :	42 :	73

64. (C) Let the third proportional be x.

then, $\dfrac{8}{28} = \dfrac{28}{x}$ ⇒ $x = \dfrac{28 \times 28}{8}$ = **98**

65. (A) When the distance is same then average

speed = $\dfrac{2 \cdot (V_1 \times V_2)}{(V_1 + V_2)} = \dfrac{2(28 \times 42)}{(28 + 42)}$

= 33.6 km/hr.

66. (C) $[(\cos^3 2\theta + 3\cos 2\theta) \div (\cos^6\theta - \sin^6\theta)]$
Put $\theta = 90°$

$$\left[\frac{\cos^3 2(90°) + 3\cos 2(90°)}{\{\cos^6(90°) - \sin^6(90°)\}}\right]$$

$$\Rightarrow \left[\frac{\cos^3(180°) + 3\cos 180°}{0 - (1)^6}\right]$$

$$\Rightarrow \left[\frac{(-1)^3 + 3(-1)}{-(1)^6}\right] = \mathbf{4}$$

67. (B)
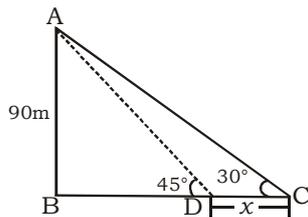
$$\tan 30° = \frac{AB}{BC} \Rightarrow \frac{1}{\sqrt{3}} = \frac{AB}{BC}$$

$$\Rightarrow BC = 90\sqrt{3}\ m$$

and $\tan 45° = \dfrac{AB}{BD} \Rightarrow 1 = \dfrac{90}{BD} \Rightarrow BD = 90m.$

∴ Required distance 'x' = $90\sqrt{3} - 90$

$$= \mathbf{90\left(\sqrt{3}-1\right) m.}$$

68. (A) $x + y + z = 1$, $xyz = 2$, $\dfrac{1}{x} + \dfrac{1}{y} + \dfrac{1}{z} = 1 \Rightarrow xy$

$+ yz + zx = 2$

∵ $x^3 + y^3 + z^3 - 3xyz = (x + y + z)[x^2 + y^2 + z^2 - (xy + yz + zx]$

$\Rightarrow x^3 + y^3 + z^3 - 3(2) = (1)(x^2 + y^2 + z^2 - 2)$

$\Rightarrow x^3 + y^3 + z^3 = x^2 + y^2 + z^2 + 4$ ...(i)

Now, as we know

$(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$

$\Rightarrow 1^2 = x^2 + y^2 + z^2 + 2(2)$

$\Rightarrow -3 = x^2 + y^2 + z^2$ ...(ii)

Put equation (ii) in equation (i),

$\Rightarrow x^3 + y^3 + z^3 = -3 + 4 = 1$

∴ $x^3 + y^3 + z^3 = \mathbf{1}$

69. (D) ATQ,
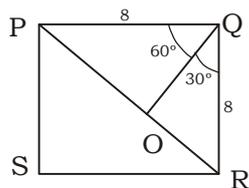
$\dfrac{1}{2} \times 8 \times OQ \times \sin 60° + \dfrac{1}{2} \times 8 \times OQ \times \sin 30° = \dfrac{1}{2} \times 8 \times 8$

$$\Rightarrow OQ\left(\frac{\sqrt{3}}{2} + \frac{1}{2}\right) = 8$$

$$\Rightarrow OQ = \frac{8 \times 2}{\sqrt{3}+1} \times \frac{\sqrt{3}-1}{\sqrt{3}-1} = 8\left(\sqrt{3}-1\right)$$

Area of $\triangle POQ$

$$= \frac{1}{2} \times 8 \times 8\left(\sqrt{3}-1\right) \times \frac{\sqrt{3}}{2}$$

$$= 16\left(3 - \sqrt{3}\right) cm^2$$

70. (D)
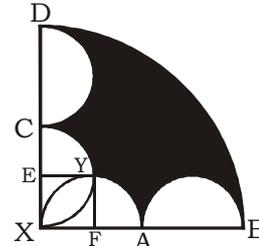
Here, XA = 7cm

∴ Now, In $\triangle$ XFY
Area of sector XFY – Area of $\triangle$ XFY

$$= \frac{1}{4} \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} - \frac{1}{2} \times \frac{7}{2} \times \frac{7}{2}$$

and, common Area $= \dfrac{28}{8} \times 2$

$$= 7cm^2$$

∴ Required Area

$$= \frac{1}{4} \times \frac{22}{7} \times 14 \times 14 - 4 \times \frac{1}{2} \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} + 7$$

$$= 154 - 77 + 7 = 84cm^2$$

71. (B) $x + y = 8$ ...(i)
$x - y = 2$ ...(ii)
∴ $x = 5$, $y = 3$
Required value = $32 \times 5 \times 3 (5^3 - 3^2)$
= 55680

72. (D) Average marks obtained by all students in the subject B

$$= \frac{52 + 66 + 68 + 55 + 70 + 72}{6} = \frac{383}{6}$$

Hence, the required average percent

marks $= \dfrac{\dfrac{383}{6}}{80} \times 100 = \dfrac{383 \times 100}{6 \times 80}$

$\approx 79.79\% \approx 80\%$

73. (C) The required percent marks

$$= \frac{42 + 66 + 85 + 92 + 105 + 100}{75 + 80 + 120 + 125 + 150 + 150} \times 100$$

$$= \frac{490}{700} \times 100 = 70\%$$

74. (D) The required average marks

$$= \frac{40 + 42 + 36 + 45 + 60 + 54}{6} = \frac{277}{6} = 46\frac{1}{6}$$

75. (B) The required average marks

$$= \frac{120 + 100 + 98 + 90 + 130 + 135}{6} = \frac{673}{6}$$

$$= 112\frac{1}{6}$$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Middling	moderate or average in size, or amount	मध्यम
Evasive	tending to avoid commitment	टालना
Maudlin	highly sentimental	भावुक
Clammy	unpleasantly damp and sticky to touch	चिपचिपा
Objurgate	rebuke severly	डाटना, फटकारना
Lambaste	criticise (someone) harshly	डाटना
Fiend	bring up	पालन करना
Fuebd	an evil spirit or demon	राक्षस
Remnant	remaining	शेष
Unsullied	not spoiled by anything	बेदाग
Unsavory	unpleasant or morally offensive	बेस्वाद
Pesky	Causing irritation, trouble	परेशान करने वाला
Edify	to educate, uplift	समझाना, सिखाना
Vexing	causing annoyance, frustration	तंग करना
Nauseous	affected with disgust	घिनौना
Loathsome	causing hatred or disgust	घृणित
Protract	prolong	देर करना
Cryptic	having a mysterious or obscure meaning	गुप्त
Maverick	an orthodox or independent minded person	आवारा
Hormephobia	fear of shock (both electrically or mentally)	
Neophobia	fear of new places	नई स्थानों का डर
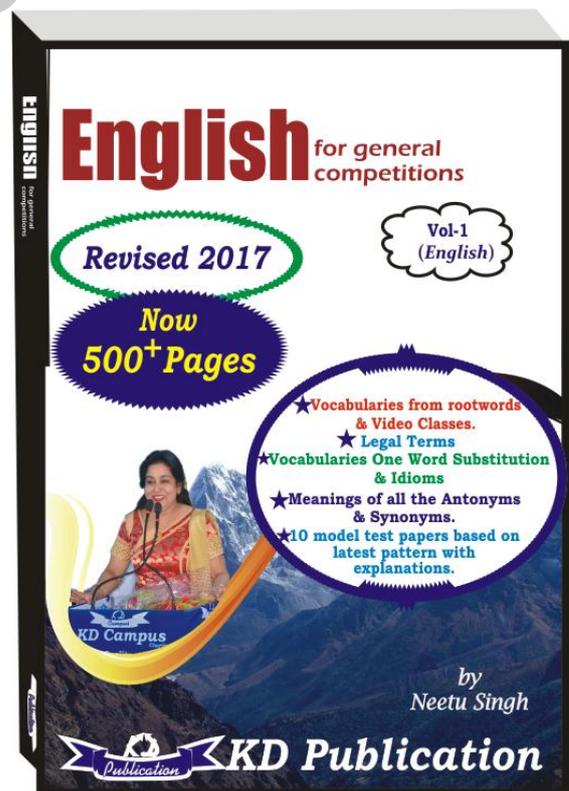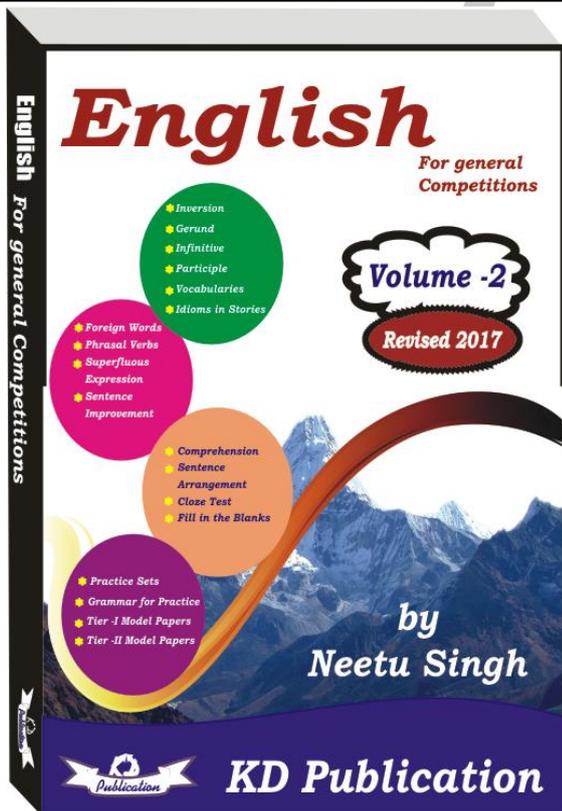
SSC MOCK TEST - 178 (ANSWER KEY)

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

SSC CGL-2017

English

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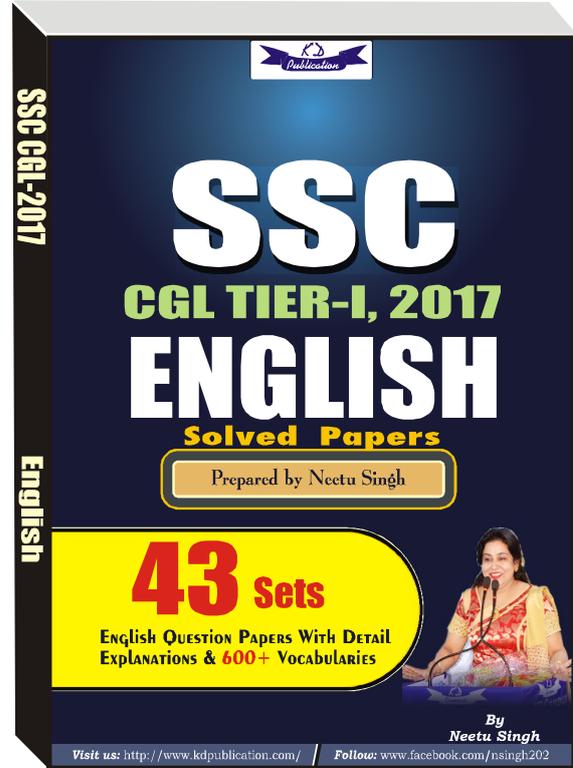
76. (B) Change 'either to pay' with 'to either pay'. 'Either….or' being a connector should be placed properly in a sentence.

77. (A) Replace 'electrifying India' with 'electrification of India', which complete the meaning of the sentence.

88. (C) 'Benevolent' is the correct spelling which means a kind hearted person.

89. (D) 'Unambiguous' is the correct spelling which means a single interpretation.

90. (C) Here preposition is followed by gerund i.e. getting.

91. (A) Often (Adverb) = frequently, many times Example: I often see her in pub.

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by Neetu Singh

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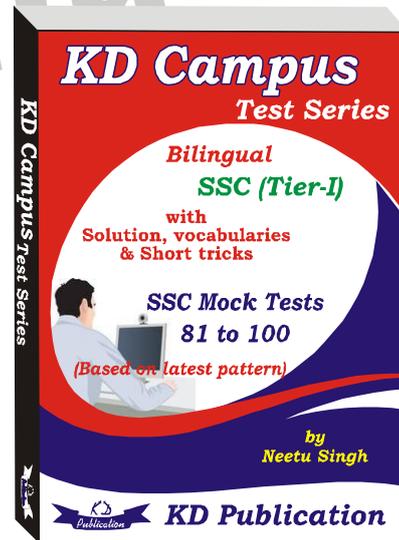
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