

KD Campus Pvt. Ltd

PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033

SSC MOCK TEST - 175 (SOLUTION)

- (C) As, Oasis is a water pool amidst sand. Similarly, Island is a piece of land amidst water.
- (B) As, $16: 10 \to \frac{16}{2} + 2 = 10$

Similarly,
$$32 \to \frac{32}{2} + 2 = 18$$

(A) As, $\frac{S}{\Lambda} \frac{T}{\Lambda} \frac{U}{\Lambda} : \frac{6}{\Lambda} \frac{7}{\Lambda} \frac{8}{\Lambda} \Rightarrow 6 + 7 + 8 = 21$

Similarly,
$$\frac{Q}{\uparrow} \frac{R}{\uparrow} \frac{W}{\uparrow} : \frac{1}{D} \frac{1}{J} \frac{1}{J} \Rightarrow 4 + 9 + \frac{1}{D} \Rightarrow 4 + \frac{1}{D} \Rightarrow 4$$

- (D) $72:23 \rightarrow (7 \times 2) + (7 + 2) = 23$ $46:34 \rightarrow (4 \times 6) + (4 + 6) = 34$ $69:69 \rightarrow (6 \times 9) + (6 + 9) = 69$ $58:50 \rightarrow (5 \times 8) + (5 + 8) \neq 50$
- 5. (D) N: $13 \rightarrow N \xrightarrow{\text{opp.}} M(13)$

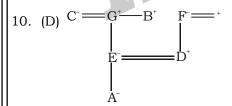
$$T: 7 \to T \xrightarrow{\text{opp.}} G(7)$$

 $Q: 11 \rightarrow Q \xrightarrow{\text{opp.}} K(11)$

$$V: 5 \rightarrow V \xrightarrow{\text{opp.}} E(5)$$

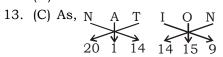
- (D) Except operating system, others are parts of operating system.
- 7. (A) 32541
- (B) <u>c</u>acca<u>a</u>ccca<u>a</u>acccc<u>a</u>aaa

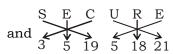
9. (C)
$$\underbrace{\frac{80}{1+1^2}, \frac{81}{1+3^2}, \frac{77}{1+3^2}, \frac{86}{1+3^2}, \frac{70}{1+5^2}, \frac{95}{1+5^2}}_{+5^2}$$

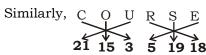


 \therefore F is Grand mother of A.

- 11. (B)
 - .. Now he is facing west.
- 12. (D) **SIGNATURE**







14. (A) $14 \times 5 \div 84 - 7 + 32$ After interchanging signs as per given details.

$$14 + 5 \times 84 \div 7 - 32$$
 = **42**

15. (B) As, $8 \# 7 - 5 = 61 \rightarrow 8 \times 7 + 5 = 61$ and $6 # 5 - 9 = 39 \rightarrow 6 \times 5 + 9 = 39$ Similarly, A # 14 - 5 = 89 \rightarrow A × 14 + 5 =

$$\Rightarrow A = \frac{84}{14} = 6$$

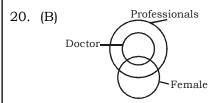
- 16. (C) As, $15 + 8 + 9 + 13 = 45 \rightarrow 54$ and $17 + 12 + 19 + 28 = 76 \rightarrow 67$ Similarly, $13 + 49 + 16 + 4 = 82 \rightarrow 28$
- 17. (A) **42** Squares



- I. True
- II. True

.. Both follows

19. (C) Required number of boys = 23 + 23 - 1



- 21. (A)
- 22. (C)
- 23. (B)
- 24. (C)
- 25. (D) S 11 87
- 26. (B) October 15 is observed, respectively as International Day of Rural woman by the United National, and National women's farmer's Day (Rashtriya Mahila Kisan Diwas) is India.



KD Campus Pvt. Ltd

PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033

- 27. (C) 'Sendai Seven' campaign is centered on the seven targets of the Sendai framework. 2016 sow the launched of the 'Sandai Seven' Campaign by UNISDR, centered on the seven targets of the sand framework, the first of which is reducing disaster mortality.
- 28. (A) The president of India, Shri Ram Nath Kovind, graced and addressed the vigilance Awareness week 2018 (October 29 to November 3) function organised by the central vigilance commission in New Delhi on October 31,2018. The theme of this year's vigilance Awareness week is 'Eradicate corruption Build a New India'.
- 29. (C) Unveiling the 182-meter statue of the from man of India, world's tallest, on his 143rd birth anniversary, Prime Minister said Sardar Patel's statue will remind the world about the courage of the man who thwarted attempts to disintegrate India.
- 30. (C) Norwegian diplomat Geir Pedersen, who helped oversee talks leading to the Oslo peace accords, has been named as the next special envoy to Syria.
- 31. (C) The Union cabinate has approved renaming of Jharsuguda Airport, Odisha as "Veer Surendra Sai Airport", Jharsugudea. Veer Surendra Sai is a well known freedom fighter of Odisha.
- 35. (B) As part of this programme, the Prime Minister Unveiled 12 key initiatives which will help the growth, expansion and facilitation of MSME's across the country.
- 36. (A) After a long gap, a flock of five greater flamigoes has been spotted along the cost of Hope Island, a part of the Coringa Widlife Sanctuary in Andhra Pradesh.
- 37. (D) Indian women hockey captain Rani Rampal was the country's flag-bearer in the dosing cermony.
- 41. (B) The Agra Fort was built by Akbar. The Agra fort also known as the "Lal-Qila, "Fort Rough" or "Qila-i-Akbari", is the highlight of the city of Agra, then capital of the Mughal Sultanate.

Some immortal list of Mughal Architecture and developers.

- Taj Mahal, Agra Shahjahan
- Humayun's Tomb Delhi Hamida Banu Begaum
- Red Fort, Delhi Shahjahan
- Jama Masjid, Delhi Shahjahan
- Buland Darwaza Fatehpur Sikri Akbar
- Tomb of I'timad-ut-Daulah, Agra Noor-
- Bibi ka Maqbara, Aurangabad Aurangzeb

42. (A) Some important Instruments and Inventors list

Instrument Inventors

Audio meter : Alexander Graham bell Barometer : Evangelista Torrioells Electrocardiogram: Willem Einthoven

Fibroscope : Hopkins

Fathometer : Herbert Grove Dorsees

Transponder : Mike Beigel

- 43. (D) These are the countries member of BIMSTEC Bangladesh, India, Myanmar, Sri Lanka, Thailand, Bhutan and Nepal.
- 44. (A) Division of the Northern Plains
 - (1) The Panjab plains
 - (2) The Ganga plains
 - (3) The Brahamputra Plains
 These are the major division of the
 Northern plains. The Panjab, the Ganga
 and the Brahamputra plains are created
 with his territory rivers.
- 45. (A) Rust consists of Hydrated iron oxides (Fe₂O), the chemical equation of this process is— $4Fe + 302 \rightarrow 2Fe_{2}O_{3}$
- 46. (B) **Marginal Product:** Marginal product also called marginal physical product, is the change in total output as one additional

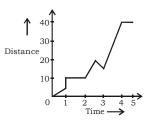
unit of its added to production. **Total Product:** Obviously, it is beneficial for a firm to know the amount of resources that it will need for a coming

period of time in order to manufacturing

a give amount of goods.

Production function: The function relates the quantity of factor inputs used by a business to the amount of output that result. **Average Product:** Measure output perworker-employed or output-per-unit of capital.

- 47. (B) Lubricaints: A Lubricants is a substance, usually organic introduced to reduce friction between surface in mutual contact, which ultimately reduces the heat generated when the surfaces move.
- 48. (D) **Non Uniform motion:** This type of motion is defined as the motion of an object in which the object travels with varied speed ant it does not cover same distance in equal time intervals, irrespective of the time interval duration. We know that with the help of graph.





Campus

KD Campus Pvt. Ltd PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033

- 49. (B) Central Pollution Control Board (CPCB) of India is a statutory organization under the ministry of environment, forest and climate change. It was established in 22 September 1974 under the water (Prevention and control of Pollution) Act
- 51. (C) $\frac{1}{1+x^{b-a}+x^{c-a}} + \frac{1}{1+x^{c-b}+x^{a-b}} + \frac{1}{1+x^{a-c}+x^{b-c}}$ $=\frac{x^a + x^b + x^c}{x^a + x^b + x^c} = \mathbf{1}$
- 52. (D) $2.\overline{47} + 3.\overline{53} + 0.\overline{05}$ Let, $x = 2.\overline{47}$, $y = 3.\overline{53}$ and $z = 0.\overline{05}$ $\Rightarrow 100x = 247.$ $\Rightarrow x = \frac{245}{99}$

Similarly,
$$y = \frac{350}{99}$$
 and $z = \frac{5}{99}$
Now,

$$= \frac{245 + 350 + 5}{99}$$
$$= \frac{600}{99} = 6.\overline{06}$$

- 53. (C) ATQ, 2.234 + 3.121 5.355 = 0Here a + b + c = 0 $\therefore a^3 + b^3 + c^3 - 3abc = 0$
- 54. (D) $(\tan^2 (90^\circ \theta) \csc^2 \theta)$ $= -(\cos e^2 \theta - \cot^2 \theta) = -1$
- 55. (D) sin20°.sin40°.sin60°.sin80° = $\sin 20^{\circ} \cdot \sin 40^{\circ} \cdot \sin 80^{\circ} \cdot \frac{\sqrt{3}}{2}$ $= \sin 20^{\circ} \cdot \sin(60 - 20^{\circ}) \cdot \sin(60 + 20^{\circ}) \cdot \frac{\sqrt{3}}{2}$ $=\frac{1}{4}\sin(3\times20^{\circ})\frac{\sqrt{3}}{2}$

$$= \frac{1}{4} \times \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \frac{3}{16}$$

56. (D) $\alpha + \alpha = -2(1 + k)$ $2\alpha = -2(1 + k) \Rightarrow \alpha = -(1 + k)$ and $\alpha\alpha = k^2 \Rightarrow \alpha^2 = k^2$ $[-(1+k)]^2 = k^2$ $\Rightarrow k^2 + 1 + 2k = k^2$ $\Rightarrow 2k = -1$ $\Rightarrow k = \frac{-1}{2}$

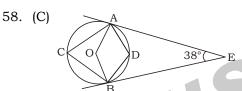
57. (C)

In ΔORT

$$OR^{2} = RT^{2} + OT^{2}$$

 $\Rightarrow 17^{2} = 8^{2} + OT^{2}$ [RS = 16 cm]
 $\Rightarrow OT = 15 \text{ cm}$
 $In \triangle OPU$
 $OP^{2} = PU^{2} + OU^{2}$

$$\Rightarrow 17^2 = PU^2 + 8^2 \qquad [OU = UT - OT]$$
PU = 15 cm
So, length of other chord (PQ) = 2 × PU = 2×15 = **30 cm**



In quadrilateral OAEB $\angle O + \angle A + \angle E + \angle B = 360^{\circ}$

$$\Rightarrow \angle O = 360^{\circ} - (90^{\circ} + 90^{\circ} + 38^{\circ})$$

$$\Rightarrow \angle O = 142^{\circ}$$

$$\therefore$$
 $\angle ACB = \frac{1}{2} \angle AOB$

$$\therefore \angle ACB = \frac{1}{2} \times 142^{\circ} = 71^{\circ}$$

Clearly
$$\frac{PS}{PQ} = \frac{PT}{PR}$$

∴
$$\triangle PST \sim \triangle PQR$$
 $\angle PST = \angle PQR$

Now, in $\triangle PSU$ and $\triangle PQV$
 $\angle PSU = \angle PQV$
 $\triangle SPU = \triangle QPV$ (common)

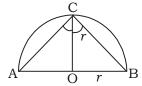
$$\frac{13}{PQ} = \frac{PO}{PV} = \frac{6}{10} = \frac{9}{PV}$$

$$PV = \frac{9 \times 10}{6} = 15 \text{ cm}$$

Campus

KD Campus Pvt. Ltd PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033

60. (A)



Required Area =
$$\frac{1}{2} \times AB \times OC$$

= $\frac{1}{2} \times 2r \times r = r^2$

- 61. (A) Percentage of candidates who failed in one or two or both 52 + 42 - 17 = 77percentage of pass candidates = 100 - 77= 23%
- 62. (A) ATQ m + m + 1 + m + 2 + m + 3 + m + 4 = 5n $\Rightarrow 5m + 10 = 5n$ m + 2 = n

Required Average

$$=\frac{m+2+m+3+m+4+m+5+m+6+m+7}{6}$$

$$\Rightarrow \frac{6m+27}{6} = \frac{2m+9}{2} = \frac{2(n-2)+9}{2} = \frac{2n+5}{2}$$

- 63. (C) Let the radius of base of second cylinder
 - $\Rightarrow 2(\pi r^2 h) = \pi R^2 h$
 - $\Rightarrow 2r^2 = R^2$
 - $\Rightarrow R = r\sqrt{2}$
- 64. (C) $\frac{S_1}{S_2} = \sqrt{\frac{T_2}{T_1}} \Rightarrow \frac{25}{S_2} = \sqrt{\frac{4}{9}} \Rightarrow S_2 = 18.75 \text{ km/}$

- 65. (C) Let the number of children be nn(n-1) = 272
 - $\Rightarrow n^2 n 272 = 0$
 - \therefore n = 17
- 66. (B) 50P 25P coins Value ₹2 ₹1.50 Total value = $4.50 \text{ units} \rightarrow 216$

1 unit
$$\rightarrow \frac{216}{4.5} = 48$$

- .. Total number of 50 paise coins = $3 \rightarrow 48 \times 3 = 144$
- 67. (C) Let the distance be x km

$$\Rightarrow \frac{x}{24} - \frac{x}{30} = \frac{11}{60}$$

$$\Rightarrow \frac{10x - 8x}{240} = \frac{11}{60}$$

$$\Rightarrow 2x = 11 \times 4$$

 $\Rightarrow x = 22 \text{ km}$ 68. (C) 10 11 15

$$\frac{-3}{7}$$
 $\frac{-4}{7}$ $\frac{-8}{7}$ $\frac{-15}{7}$

LCM (10, 11, 15, 22) -7 = 330n - 7For required no.

Let n = 30

Required number = $330 \times 30 - 7$

= 9900 - 7= 9893

69. (A) Amount = Principal + C.I. = 32700 + 23805.5 = ₹56505.5

$$56505.6 = 32700 \left(1 + \frac{R}{100} \right)^3$$

- $\Rightarrow \frac{56505.6}{32700} = \left(1 + \frac{R}{100}\right)^3$
- $\Rightarrow \left(\frac{12}{10}\right)^3 = \left(1 + \frac{R}{100}\right)^3$
- \Rightarrow R = 20%

Now, S.I. =
$$\frac{32700 \times 3 \times 20}{100}$$
 = ₹19,620.

70. (B) C.P. for Mohit = $150 \times \frac{5}{4} = ₹187.5$

C.P for Aman =
$$220 \times \frac{10}{11} = ₹200$$

Profit percentage for Mohit

$$\left(\frac{200-187.5}{187.5}\right) \times 100 = 6.67\%$$

71. (D) Rate of regular 1 h = $\frac{2000}{50}$ = ₹40

Rate of additional hours = $1\frac{1}{2} \times 40$

No. of additional hours

$$= \frac{2300 - 2000}{60} = 5 \text{ hours}$$

72. (D) Required percentage = $\frac{7.5}{17} \times 100$

- 73. (A) Required Ratio = 14.5 : 7.5 = 29 : 15
- 74. (B) Required percentage = $\frac{8}{7.5} \times 100$ = 106.66 ≈ **107**%
- 75. (A) Required percentage = $\frac{1}{(17+8+18)} \times 100$ = 81.39 = **81.4%**



MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Elongate	to make something longer or to grow longer	बढा़ना
Hydroplane	when a car goes out of control and skims along	हाइड्रोप्लेन
	the surface of a wet road	
Reconnoiter	to go to a place or area in order to find out	अन्वेषण
	information about a military enemy	
Precariously	not safe	जोखिम
Gingerly	very cautious or careful	सावधानी से
Wheedle	to persuade someone to do something or to give	खुशामद से मना लेना
	you something by saying nice things	
Plead	to ask for something in a serious and emotional	निवेदन करना
	way	
Wretched	very bad or unpleasant	घृणायोग्य
Nebulous	not clear, difficult to see, understand,	अस्पष्ट
	describe, etc.	100
Vertiginous	inclined to frequent and often pointless change	अस्थिर
	inconstant	
Litigious	tending or likely to engage in lawsuits	विवादी
Lowly	in a humble or meek manner	नम्र
Cynomania	an abnormal love of dogs	कुत्तों के लिए प्यार
Atheist	a person who believes that God does not exist	नास्तिक
Pandemonium	a wild uproar	विप्लव
Parody	a piece of writing, music, etc., that imitates the	हास्यानुकृति
	style of someone or something else in an	
	amusing way	
Sonnet	a poem made up of 14 lines that rhyme in	गाथा
	a fixed pattern	
Opprobrium	very strong disapproval or criticism of a person	अपमान, तिरस्कार
	or thing especially by a large number of people	
Repentance	to feel or show that you are sorry for something	पछतावा
	bad or wrong that you did and that you want to do what is right	



KD Campus Pvt. Ltd

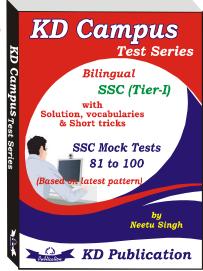
PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033

SSC MOCK TEST - 175 (ANSWER KEY)

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



- 76. (B) Change 'send' into 'sent' because here 'get' and 'have' are used as causative verbs, so the main verb should be in V₃ form.
- 77. (A) Change 'of' into 'to' because 'assent' takes fixed preposition 'to' after it, which means to 'express approval'.
- 90. (B) 'Not only' will be used just before 'by' because 'not only... but also' is a conjunction pair where the subsequent part 'but also' has been used just before the preposition 'with'.
- 91. (A) Change 'will see' into 'see' because the sentence is in simple present 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