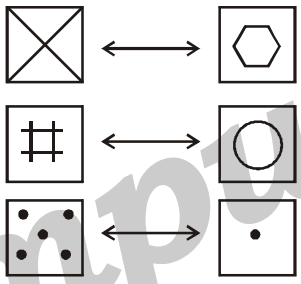
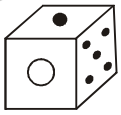
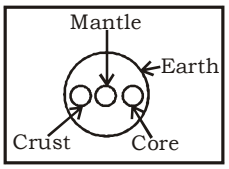
SSC MOCK TEST – 200 (SOLUTION)

1. (A) Dogs bark and goats **bleat**.
2. (C) As, GOLD
   7 + 15 + 12 + 4 = 38
   Similarly,
   STRUCTURE = 19 + 20 + 18 + 21 + 3 + 20 + 21+ 18 + 5
   = **145**
3. (D) As, $\frac{(10)^3}{2} = 500$
   Similarly, $\frac{(12)^3}{2}$ = **864**
4. (A) Except **River**, all contain stagnant water.
5. (D) Except **493**, all are multiple of 19.
6. (C) I M X D H S (+4, +11; +4, +11)
   G W K K O Z (+12; +4; +4, +11)
7. (B) **35412**
8. (D) 7 8 18 57 232 **1165** (×1+1, ×2+2, ×3+3, ×4+4, ×5+5)
9. (B) The number of letters in the terms goes on leaving one letter after each set and the next set has one letter more than the previous one.
10. (A) abc**a**bc**c**abcc**c**a**b**cccc
11. (C) According to sumitra, her mother's birthday on 14 or 15 Febuary ...(i)
    According to Sumitra's brother, her mother's birthday on 15 or 16 Febuary ...(ii)
    From equation (i) and (ii), we get
    Her mother's birthday on **15th February.**
12. (B) **TANING**
13. (C) As, TOMATO → 023402
    and, ORINOL → 275269
    Similarly, NORMAL → **627349**
14. (A) 104 × 13 + 9 – 5 ÷ 6
    After changing the signs as per given details,
    104 ÷ 13 – 9 × 5 + 6
    = 8 – 45 + 6
    –31
15. (D) As, 3@ 3 * 3
    ⇒ 3 ÷ 3 × 3
    ⇒ 3
    and, 48@4*3
    ⇒ 48 ÷ 4 × 3
    36
    Similarly, 91@13*2
    ⇒ 91 ÷ 13 × 2
    = **14**
16. (A) 12 × 5 + 5 = 65
    Reverse the digit of the number = 56
    12 × 2 + 5 = 29
    Reverse the digit of the number = 92
    14 × 5 + 10 = 80
    Reverse the digit of the number = **08**
17. (B) Required number of triangles = **10**
18. (C) Both arguments are strong.
19. (D) From figure,



∴ Figure  can't be made by the question figure.

20. (C) 

21. (D)
22. (A)
23. (A)
24. (C)
25. (A) **F U E L**
    21, 55, 22, 02
26. (B) The comptroller and Auditor General (CAG) of India is an authority established by Article 148 which audits all receipts and expenditure of Government of India and state government including those of bodies and authorities substantially financed by the Government.

27. (B)

State/UTs	CM
Puducherry	V. Narayanasamy
Telangana	K. Chandrashekhar Rao

N. Chandrababu Naidu was the former last CM of Andhra Pradesh.

28. (D) Navratnas of Akbar- Abul Fazl, Raja Todar Mal, Abdul Rahim Khan I Khana, Birbal, Mulla Do-Piyaza, Faizi, Fakir Aziao-Din, Tansen and Raja Man Singh I.
Mahesh Das is the other name of Birbal.

30. (B)

Biography/Autobiography	Author
Imperfect(Sanjay Manjrekar)-	Sanjay Manjrekar
The Journey(Steve Smith)-	Steve Smith
My World in Cricket (Stuart Broad) -	Stuart Broad
Driven(Virat Kohli) –	Vijay Lokapally

31. (C) Sukumar Sen was the first Cheif Election Commissioner of India.
M. S. Gill is an Indian politician of the Indian National Congress party, who served as the Minister of Youth Affairs and Sports. He served as the Cheif Election Commissioner of India from 1996 to 2001.
S. L. Shakdhar was a Cheif Election Commissioner from 1977 to 1982. He was also the former Secretary General of third, fourth and fifth Lok Sabha. He died in 2002.
J. M. Lyngdoh was Cheif Election Commissioner from 2001 to 2004. He was awarded the Ramon Magsaysay Award in 2003.

32. (A)

Day	Theme
International Day of Girl Child (11 October)	With Her-Skilled Girl Force
18th International Youth Day (12 August)	Safe Space for Youth
World Autism Awareness Day (2 April)	Empowering Women and Girls with Autism

34. (D)

Country	National Bird
Bangladesh	Magpie robin
Pakistan	Chukar
Sri Lanka	Junglefowl

35. (C) Reservation of seats for SC and ST in the House of the People- Article 330
Representation of the Anglo Indian community in the House of the People- Article 331
Representation of the Anglo Indian community in the Legislative Assemblies of the States- Article 333

36. (B) Miss Universe 2018, the 67th edition was held on 17 December 2018 at Thailand. Catriona Gray of Philippines was the winner. Miss Universe 2019 Will be held at South Korea.

40. (B) Sankalp se Siddhi programme was launch of by the Ministry of Culture in September 2017. It is a 5 year plan. The emphasis is on the use of technology to combat terrorism, bring cleanliness, and eradication of social evils.

42. (A) The Magnetic north pole of the Earth doesn't coincide with the geographic north pole of Earth. It is moving over time due to magnetic changes in Earth's core.

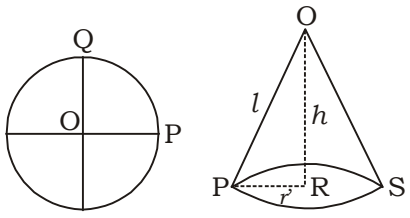
44. (A) Almatti Dam, a hydroelectric project on the Krishna River, was completed in July 2005. The target annual electric output of the dam is 560 MU.

46. (A) An abacus is an instrument for performing calculations by sliding counters along rods or in grooves.

48. (C) The various categories of Land are in Chola inscriptions.
1. Vellanvagai – land of non-Brahmin Peasant proprietors.
2. Brahmadeya – land gifted to Brahmanas.
3. Shalabhoga – land for the maintenance of a school.
4. Devadana Trirunamattukkani – land gifted to temples.
5. Pallichhandam – land donated to Jaina institutions.

49. (B) The Intertropical convergence Zone, known by sailors as the doldrums or the calms, is the area encircling Earth area the equator, where the northeast and southeast trade winds converge.

51. (D) The quadrant POQ of the circle is folded in such a way that the arc PQ forms the base of the cone. Radii OP and OQ be the slant height of the cone and they will coincide.



Arc PQ = $\left(\frac{1}{4}\right) 2\pi r$

$= \frac{1}{4} \times 2 \times \frac{22}{7} \times 7 \text{ cm} = 11 \text{ cm}$

Circumference of the base of the cone = Arc PQ.
or, $2\pi r' = 11$ (where r' = radius of the base of the cone)

or, $r' = \frac{11}{2\pi} = \frac{11}{2\times\frac{22}{7}} = \frac{7}{4}$ cm

Slant height of the cone = OP = radius of the circle
$l = 7$ cm
Height of the cone,

$h = \sqrt{(l)^2 - (r')^2}$

or, $h = \sqrt{(7)^2 - \left(\frac{7}{4}\right)^2} = \frac{7}{4}\sqrt{15}$ cm

Volume of the cone = $\frac{1}{3}\pi(r')^2 h$

$= \frac{1}{3} \times \frac{22}{7} \times \left(\frac{7}{4}\right)^2 \times \frac{7}{4}\sqrt{15}$ cm^3

= **21.74 cm³**

52. (C) Required digit = $(4)^{102} + (4)^{103}$
as $(4)^2$ gives unit digit 6
so $(544)^{102}$ unit digit is 6
and $(544)^{103}$ unit digit is 4, unit digit of $6 \times 4 = 4$,
The sum of unit digits = 6 + 4 = 1**0**
∴ Required answer = 0

53. (B) ∠COB = 360° – (125° + 90°) = 145°

$\Rightarrow x = \angle CAB = \frac{1}{2}\angle COB = \frac{1}{2} \times 145° =$ **72.5°**

54. (D) Let the prices of the houses be $16x$ and $23x$
ATQ,

$\left(16x \times \frac{110}{100}\right) : (23x + 477) = 11 : 20$

$\Rightarrow 16x \times \left(\frac{110}{100}\right) \times 20 = (23x + 477)11$

$\Rightarrow 16x \times \left(\frac{11}{10}\right) \times 20 = (23x + 477)11$

$\Rightarrow 16x \times 2 = 23x + 477$

$\Rightarrow 9x = 477$

$\Rightarrow x = 53$

Original prices are $16x$ and $23x$. ie, ₹ 848 and ₹ 1219.
Required Difference = 1219 – 848 = **₹371**

55. (B) Time = $\frac{50}{60}$ hr = $\frac{5}{6}$ hr

Speed = 48 m/h

Distance = S × T = $48 \times \frac{5}{6}$ = 40 km

New time will be 40 minutes

so, Time = $\frac{40}{60}$ hr = $\frac{2}{3}$ hr

Now we know,

Speed = $\frac{\text{Distance}}{\text{Time}}$

New speed = $40 \times \frac{3}{2}$ km/h = **60km/h**

56. (C) Let the expenditure per student = x
ATQ,
$60(x - 1) = 50x + 70$
$\Rightarrow 60x - 60 = 50x + 70$
$\Rightarrow x = 13$
∴ Expenditure of 50 student = 13 × 50
= ₹ 650

57. (A) $\frac{\cos^2\theta}{\cot^2\theta - \cos^2\theta} = \frac{1}{3}$

$\Rightarrow \frac{\cos^2\theta}{\frac{\cos^2\theta}{\sin^2\theta} - \cos^2\theta} = \frac{1}{3}$

$\Rightarrow \frac{\cos^2\theta}{\cos^2\theta\left(\frac{1}{\sin^2\theta} - 1\right)} = \frac{1}{3}$

$\Rightarrow \frac{\sin^2\theta}{1 - \sin^2\theta} = \frac{1}{3}$

$\Rightarrow \frac{\sin^2\theta}{\cos^2\theta} = \frac{1}{3} \Rightarrow \tan^2\theta = \frac{1}{3}$

$\Rightarrow \tan\theta = \frac{1}{\sqrt{3}}$ ∴ $\theta =$ **30°**

58. (B) B's 1 day's work

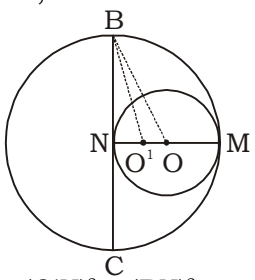
$= \left(\frac{1}{12} - \frac{1}{24}\right) = \frac{1}{24}$

Now, (A + B)'s 1 day's work

$= \left(\frac{1}{24} + \frac{1}{24 \times 2}\right) = \frac{3}{48} = \frac{1}{16}$ [∵ B works for half day only]

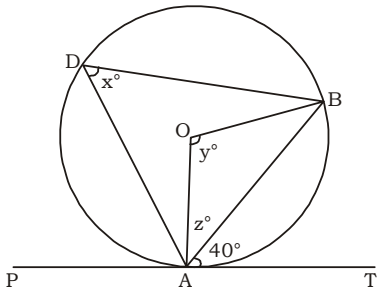
So, A and B together will complete the work in **16 days.**

59. (A) OM = 4 cm = radius of smaller circle and O'M = 6 cm = radius of bigger circle
∴ O'N = 8 – 6 = 2 cm
In ΔO'NB,



$(O'B)^2 = (O'N)^2 + (BN)^2$
$\Rightarrow (BN)^2 = 36 - 4 = 32$
$\Rightarrow BN = 4\sqrt{2}$ cm
∴ $NC = BN = 4\sqrt{2}$ cm
∴ $BC = 4\sqrt{2} + 4\sqrt{2} =$ **$8\sqrt{2}$ cm**

60. (A)



$\because$ $x°$ is a angle in the alternative segment for $\angle BAT$

$\Rightarrow$ $\angle BAT = x = 40°$

$\because$ $y°$ is angle at centre and $x°$ is angle in the remaining arc

$\Rightarrow$ $y° = x \times 2 = 80°$

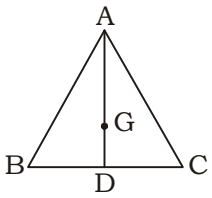
$\because$ in ΔOAB, $\angle OBA = \angle OAB = z°$

$\Rightarrow$ $y + z + z = 180°$

$\Rightarrow$ $80° + 2z = 180°$

$\Rightarrow$ $z =$ **50°**

61. (C)



AB = 8 cm

BD = 4 cm

$\angle ADB = 90°$

$\therefore$ $AD = \sqrt{AB^2 - BD^2}$

$= \sqrt{8^2 - 4^2} = \sqrt{64 - 16} = \sqrt{48} = 4\sqrt{3}$ cm

$AG = \frac{2}{3}AD = \frac{2}{3} \times 4\sqrt{3} =$ **$\frac{8\sqrt{3}}{3}$ cm**

62. (C) Ist candle $\rightarrow$ 10 ——— 9

90 (Total work)

IInd candle $\rightarrow$ 9 ——— 10

Let the required time be t hrs

ATQ,

$\frac{90 - 9t}{90 - 10t} = \frac{1}{2}$

$\Rightarrow$ $90 - 10t = 180 - 18t$

$\Rightarrow$ $8t = 90$

$\Rightarrow$ $t = \frac{45}{4} =$ **$11\frac{1}{4}$ hr**

$\therefore$ Required time = $11\frac{1}{4}$ hrs

63. (C) Principal = ₹ 16,000

Time = 9 months = 3 quarters

Rate = 20%, it will be $\frac{20}{4}$ = 5% per quarter

Now, Amount = $16000\left(1 + \frac{5}{100}\right)^3$ = ₹ 18522

C.I = 18522 – 16000 = **₹ 2522**

64. (D) Let the number of apples be 100.

On the first day he sells 60% apples i.e., 60 apples. Remaining apples = 40.

He throws 15% of the remaining i.e., 15% of 40 = 6.

Now he has 40 – 6 = 34 apples

The next day he throws 50% of the remaining 34 apples i.e., 17.

$\therefore$ In total he throws 6 + 17 = 23 apples.

= 23%

65. (B) As the numbers are co-prime, they contain only 1 as the common factor.

Also, the given two products have the middle number in common.

So, middle number

= H.C.F. of 551 and 1073 = 29

First number = $\left(\frac{551}{29}\right)$ = 19

Third number = $\left(\frac{1073}{29}\right)$ = 37

$\Rightarrow$ Sum = (19 + 29 + 37) = 85

$\therefore$ Required average = $\frac{85}{3}$ = **28.3**

66. (B) Required HCF = 2 × 3 × 3 × 7 = **126**

67. (D) The number N = 16 and its 5 factors are 1, 2, 4, 8, 16.

$\Rightarrow$ N – 1 = 16 – 1 = 15

Factors of 15 = 1, 3, 5, 15 $\Rightarrow$ X = 4

$\therefore$ N – X = 16 – 4 **= 12**

68. (A) In ΔAOC,

OA = OC

$\therefore$ $\angle OAC = \angle OCA = 15°$

Now, In $\angle BOC$,

OB = OC

$\therefore$ $\angle OBC = \angle OCB = 50°$

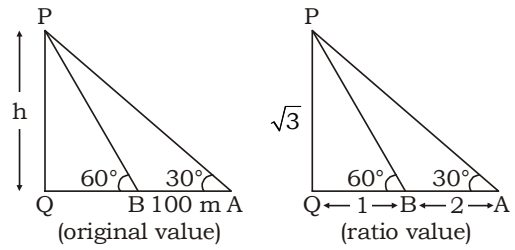
$\angle ACB = \angle OCB - \angle OCA$

$\Rightarrow$ $\angle ACB = 50 - 15 = 35°$

Now, $\angle AOB = 2\angle ACB$

$\therefore$ $\angle AOB = 2 \times 35° =$ **70°**

69. (C)



Let PQ be the tower of height h metre

Ratio value **Original value**

$AB \rightarrow 2 \longrightarrow 100$

$\therefore \quad 1 \longrightarrow 50$

$\therefore \quad \sqrt{3} \longrightarrow 50\sqrt{3}$

$\therefore$ Height of the tower = $\mathbf{50\sqrt{3}}$ **metre**.

70. (A) Let x is subtracted.
Then,

$$\frac{(6-x)}{(7-x)} < \frac{16}{21} \text{ or } 21(6-x) < 16(7-x)$$

$\Rightarrow 5x > 14 = x > 2.8$

$\therefore$ The least number is **3.**

71. (D) $\angle OCX = 45°$ (ABCD is a square & AC bisects $\angle BCD$)

$\angle COD + \angle COX = 180°$

$\Rightarrow \angle COX = 180° - \angle COD = 180° - 115° = 65°$

In ΔOCX

$\angle OCX + \angle COX + \angle OXC = 180°$

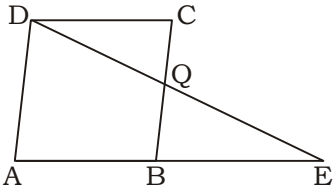
$\Rightarrow 45° + 65° + \angle OXC = 180°$

$\Rightarrow \angle OXC = 180° - 110° = 70°$

$\Rightarrow x =$ **70°**

72. (B) AD||BC

$\Rightarrow$ AD||BQ



Point B is the mid-point of AE.

$\therefore$ Q is the mid-point of DE.

In Δs DQC and BQE.

$\angle DQC = \angle BQE$

$\angle DCQ = \angle QBE$

$\angle CDQ = \angle QEB$

$\therefore$ Both triangles ΔDQC and $\angle BQE$ are similar.

$\Rightarrow$ CQ : QB = **1 : 1**

73. (B) Required percentage

$$= \left[\frac{(850+920+890+980+1350)}{(7400+8450+7800+8700+9800)} \times 100\right]\%$$

$$= \left(\frac{4990}{42150} \times 100\right)\% = \mathbf{11.83\%}$$

74. (D) Required percentage

$$= \left[\frac{(840+1050+920+980+1020)}{(7500+9200+8450+9200+8800)} \times 100\right]\%$$

$$= \left(\frac{4810}{43150} \times 100\right)\% = \mathbf{11.14\%}$$

75. (D) Required Average

$$= \frac{8100+9500+8700+9700+8950}{5}$$

$$= \frac{44950}{5} = \mathbf{8990}$$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Acrimony	anger and bitterness	कड़वाहट
Admirable	deserving great respect and approval	प्रशंसनीय
Approbatory	praise or approval	अनुमोदक
Atrocious	extremely brutal, cruel, or wicked	अति दुष्ट
Banal	boring or ordinary : not interesting	साधारण
Combative	having or showing a willingness to fight or argue	लड़ाकू
Complimentary	expressing praise or admiration for someone or something	प्रसंशात्मक
Concealed	to keep secret	गुप्त
Deplorable	very bad in a way that causes shock, fear, or disgust	निंदनीय
Egregious	very bad and easily noticed	बेहद खराब
Embarrassing	causing a feeling of self-conscious confusion and distress	शर्मिन्दगी भय
Pejorative	insulting to someone or something, expressing criticism	अपमानजनक
Ruminate	to think carefully and deeply, meditate	चिंतन करना
Trite	not fresh or original	घिसा–पिटा

SSC MOCK TEST - 200 (ANSWER KEY)

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

76. (C) Replace 'whom' with 'who'. 'Who' is used for the 'Subject of a verb'.

77. (D) No error

78. (C) Replace 'are' with 'is'. 'Verb' will be used according to the subject before preposition. 'Behaviour' is on Uncountable Noun.

79. (A) 'Diligent' is the correct option, which means 'hard working'. (Option (B), (C) and (D) means 'lazy' (आलसी)।

80. (C) 'Permission' is the correct option.

81. (C) 'Monotonous' means 'unchanging and boring'. 'Unchanging rhythm will be boring'. 'Irreverent' means 'showing a lack of respect'. 'Recusant' means 'one who refuses to accept or obey established authority. 'Coherent' means 'logical and well organized.

88. (B) 'Permeated' is the correct option. 'Permeate' means 'to diffuse through or penetrate something'.

89. (A) 'Flute recital' is the correct option. 'Recital' means 'a dance or musical performance'. Here it means 'flute performance'.

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