

**SSC MOCK TEST - 334 (SOLUTION)**

1. (C) Cream is the product of milk. In the same way Pottery is the product of clay.

2. (C)  $09 : 72 :: 06 : 42$   
 $\begin{matrix} \uparrow & \boxed{+} \\ \curvearrowright & 7+2 \end{matrix}$        $\begin{matrix} \uparrow & \boxed{+} \\ \curvearrowright & 4+2 \end{matrix}$

3. (B)  $D : 25 :: F : 49$   
 $\begin{matrix} \downarrow & \curvearrowright \\ (4+1)^2 & \end{matrix}$        $\begin{matrix} \downarrow & \curvearrowright \\ (6+1)^2 & \end{matrix}$

4. (B) All others have two vowels except (B)

5. (D) The sum of all others is 27, except option (D).

6. (D)

7. (A) 2. Omit → 1. Omnipotent → 3. Omniscient → 4. Omnivorous

8. (B)

A	M	D	N	G	M	J	N	M	M	P	N	S	M	V	N
1	13	4	14	7	13	10	14	13	13	16	14	19	13	22	14
+3				+3				+3				+3			

9. (A)  $2 \quad 4 \quad 8 \quad 16 \quad 32$   
 $\begin{matrix} \boxed{\times 2} & \boxed{\times 2} & \boxed{\times 2} & \boxed{\times 2} & \boxed{\times 2} \end{matrix}$

10. (B)  $\begin{matrix} H & O & U & R \\ \updownarrow & \updownarrow & \updownarrow & \updownarrow \\ S & L & F & I \end{matrix}$

Reverse place rank letter

11. (C)  $\begin{matrix} B & R & I & D & G & E \\ +3 \downarrow & +3 & +3 & +3 & +3 & +3 \\ F & U & L & G & J & H \end{matrix}$        $\begin{matrix} F & R & U & I & T \\ +3 \downarrow & +3 & +3 & +3 & +3 \\ I & U & X & L & W \end{matrix}$

12. (A)  $13 + 7 \times 2 = 27$   
 $54 + 45 \times 2 = 144$   
 Then,  $? + 32 \times 2 = 68$   
 $? = 68 - 64 = 4$

13. (B)  $3 \times 100 + 5 \times 9 = 345$   
 $4 \times 100 + 6 \times 10 = 460$   
 So,  $5 \times 100 + 7 \times 11 = 577$

14. (B)

15. (A) As,

S	E	C	T	O	R
↓-1	↓+0	↓-2	↓+0	↓-3	↓+0
R	E	A	T	L	R

Similarly,

F	L	O	W	E	R
↓-1	↓+0	↓-2	↓+0	↓-3	↓+0
E	L	M	W	B	R

16. (D)

1	2	8	48	384	<span style="border: 1px solid black; padding: 2px;">3840</span>
x2		x4		x8	
+2	+2	+2	+2	+2	+2

17. (C) The series is W/WY/WYB/WYBG/WYBGR/W/WY/WYB/WYBG.  
The letter G stands for Green.

18. (C) Using the correct symbols, we have: Given expression  
 $= (3 \times 15 + 19) \div 8 - 6$   
 $= (45 + 19) \div 8 - 6$   
 $= 64 \div 8 - 6$   
 $= 8 - 6 = 2$

19. (B) As, C A T  
 $3 \ 1 \ 20 = 3 + 1 + 20 = 24$   
 243 → No. of letters in CAT.  
 G O  
 $7 \ 15 = 7 + 15 = 22$   
 222 → No. of letters in GO.  
 Similarly,  
 C L O U D  
 $3 \ 12 \ 15 \ 21 \ 4$   
 $= 3 + 12 + 15 + 21 + 4 = 55$   
 555 → No. of letters in CLOUD.

20. (D) The final arrangement is as follows.

	Weight ↑	Height ↑
1.	C	E
2.	D	A
3.	E	C
4.	A	B
5.	B	D

So, D is the second heaviest person.

21. (B)                      22. (B)                      23. (B)                      24. (C)

25. (D)

			Top face
			Opposite face

When the given figure is folded to form a cube, then the face bearing six dots will lie opposite the face bearing three dots.

29. (A) Maharashtra has the longest network of National Highways in India. Only three other states of Rajasthan, Uttar Pradesh & Gujarat have a route length of more than 5000 Kms.
30. (B) In order to ensure community mobilisation and bolster people's participation, every year, the month of September is celebrated as POSHAN Maah across the country. This month highlights the importance and role of the right nutrition for the human body.
32. (B) Rahide is a long head scarf worn by the women of Himachal Pradesh to protect their heads from cool breeze and also to depict their tradition.
33. (A) This full-fledged integrated steel plant is one of India's oldest. Established as an industrial enterprise in 1918, IISCO produced iron from an open-top blast furnace at Hirapur (later to be called Burnpur) in West Bengal for the first time in 1922.

35. (B) The Nizams were the 18th-through-20th-century rulers of Hyderabad. Nizam of Hyderabad was the title of the monarch of the Hyderabad State (as of 2019 divided between the state of Telangana, Kalyana-Karnataka region of Karnataka and the Marathwada region of Maharashtra).
36. (D) The National Weather Service uses supercomputers around the clock to accurately produce forecasts, watches, warnings and a whole host of data for the public. ... These computers make use of virtually all observational data that the NWS collects. This data comes from satellites, weather balloons, buoys, radar, and more.
38. (B) Sadat Rahman from Bangladesh won the International Children's Peace Prize 2020.
39. (B) The Champaran Satyagraha of 1917 was the first satyagraha movement led by Mahatma Gandhi in British India and is considered a historically important rebellion in the Indian independence movement.
41. (A) Uttar Pradesh attracted the highest number of domestic tourists in the country in 2019 with a share of 23.1 per cent travellers visiting the state, an official statement said Monday. According to the Indian Tourist Statistics 2020, 53,58,55,162 domestic tourists visited the state in 2019.
43. (C) Hima Kohli is the first female Chief Justice of Telangana. She served as the Chief Justice of Telangana High Court from 7 January 2021 to 30 August 2021.
46. (D) Serchhip was the most literate district in India as per Census 2011. Serchhip is a city in the Indian state of Mizoram. As per census data in 2011, the average literacy rate in Serchhip district was 98.23 %.
47. (C) Mahendra Singh Dhoni is a former Indian international cricketer. MS Dhoni holds the Indian record for the most test matches as captain as of December 2020. He captained the Indian national team in limited-overs formats from 2007 to 2017 and in Test cricket from 2008 to 2014.
48. (C) Red sandy loam, lateritic soils and coastal sands with slightly acidic pH are best for cashew. Cashew is a tropical plant and can thrive even at high temperatures.
49. (D) Central Bank of India launched a contactless 'RuPay Select' debit card in December 2020. It was launched in association with the National Payments Corporation of India. It was launched on the occasion of Bank's 110th foundation day.
50. (C) Ayodhya is a city situated on the banks of the holy river Saryu in Uttar Pradesh.
51. (A) S.P of machine sold at loss = ₹ 57 lakh

Let the loss be ₹ x.

ATQ,

$$57 + x = 67 - 7x$$

$$8x = 10$$

$$x = \frac{10}{8}$$

$$\therefore \text{Cost price of machine} = 57 + \frac{10}{8}$$

$$= 57 + 1.25 = ₹ 58.25 \text{ lakh}$$

52. (B) Since  $(3x - P)$ ,  $(x - 10)$  and  $(-x + 16)$  are in A.P.

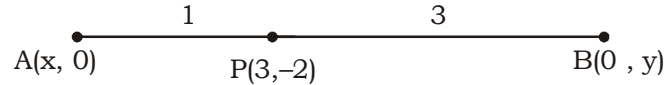
$$\therefore (x - 10) - (3x - P) = (-x + 16) - (x - 10)$$

$$x - 10 - 3x + P = -x + 16 - x + 10$$

$$-2x - 10 + P = -2x + 26$$

$$P - 10 = 26$$

$$P = 26 + 10 = 36$$

53. (A) 

By using section formula,

$$P(x, y) = \left( \frac{y_1 m + x_1 n}{m + n}, \frac{y_2 m + x_2 n}{m + n} \right)$$

$$P(3, -2) = \left( \frac{0 \times 1 + x \times 3}{1 + 3}, \frac{y \times 1 + 0 \times 3}{1 + 3} \right)$$

$$P(3, -2) = \left( \frac{3x}{4}, \frac{y}{4} \right)$$

$$\frac{3x}{4} = 3 \text{ and } \frac{y}{4} = -2$$

$$x = 4 \text{ and } y = -8$$

54. (C)  $\operatorname{cosec} A - \cot A = x$

$$\frac{1}{\sin A} - \frac{\cos A}{\sin A} = x$$

$$x = \frac{1 - \cos A}{\sin A} \times \frac{1 + \cos A}{1 + \cos A}$$

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

55. (B) Let the sum be ₹ x.

Time = 3 years

Rate = 10% at SI

$$SI = \frac{x \times 3 \times 10}{100} = ₹ \frac{3x}{10}$$

Principle = ₹ 6000

Time = 2 years

Rate = 10% at CI

$$CI = 6000 \left( 1 + \frac{10}{100} \right)^2 - 6000$$

$$= 6000 \times \frac{11}{10} \times \frac{11}{10} - 6000$$

$$= 7260 - 6000 = ₹ 1260$$

ATQ,

$$\frac{3x}{10} = \frac{1260}{2}$$

$$6x = 1260 \times 10$$

$$x = \frac{1260 \times 10}{6} = ₹ 2100$$

56. (A)  $\frac{\text{Radius of Cone A } (r_A)}{\text{Radius of Cone B } (r_B)} = \frac{4}{5}$

$$\frac{\text{Volume of Cone A}}{\text{Volume of Cone B}} = \frac{1}{4}$$

$$\frac{\pi r_A^2 h_A}{\pi r_B^2 h_B} = \frac{1}{4}$$

$$\left(\frac{r_A}{r_B}\right)^2 \frac{h_A}{h_B} = \frac{1}{4}$$

$$\left(\frac{4}{5}\right)^2 \frac{h_A}{h_B} = \frac{1}{4}$$

$$\frac{h_A}{h_B} = \frac{1}{4} \times \frac{25}{16} = \frac{25}{64}$$

$$h_A : h_B = 25 : 64$$

57. (C)  $\sqrt{a} + \sqrt{b} + \sqrt{c} = 0$

$$\sqrt{a} + \sqrt{b} = -\sqrt{c}$$

Squaring both sides,

$$a + b + 2\sqrt{ab} = c$$

$$a + b - c = -2\sqrt{ab}$$

$$(a + b - c)^2 = 4(ab)$$

$$\frac{(a + b - c)^2}{ab} = 4$$

58. (B)  $\tan \theta + \frac{1}{\tan \theta} = 2$

So,  $\tan \theta = 1$

$$\tan^2 \theta + \frac{1}{\tan^2 \theta} = (1)^2 + \frac{1}{(1)^2} = 1 + 1 = 2$$

59. (D) Required number = (Largest 5-digit multiple of 3, 5, 8 and 12) + 2  
 = (Largest 5-digit multiple of 120) + 2  
 = 99960 + 2 = 99962

60. (C) 
$$\begin{array}{r} \text{Ram} \quad 12 \\ \text{Ravi} \quad 8 \\ \hline \qquad \qquad 24 \\ \hline \qquad \qquad \qquad 3 \\ \hline \qquad \qquad \qquad \qquad 5 \end{array}$$

$$\text{Time required} = \frac{24}{5} = 4 \frac{4}{5} \text{ days}$$

61. (C) Total pupils wearing spectacles =  $\frac{45}{100} \times \frac{20}{100} \times 600 + \frac{55}{100} \times \frac{30}{100} \times 600 = 54 + 99 = 153$

Required percentage =  $\left(\frac{153}{600} \times 100\right)\% = 25.5\%$

62. (B)  $A = P\left(1 + \frac{r}{100}\right)^T$

$1102.5 = 1000\left(1 + \frac{5}{100}\right)^T$

$\left(\frac{21}{20}\right)^T = \frac{1102.50}{1000}$

$\left(\frac{21}{20}\right)^T = \left(\frac{21}{20}\right)^2$

$T = 2$  years

63. (A) Side of a cube = HCF of 6, 42, 45 = 3 cm

So, least possible number of cubes =  $\frac{6 \times 42 \times 45}{3 \times 3 \times 3} = 420$

64. (C) Filling Pipe  $\frac{6}{42}$  7  
Filling Pipe + leakage  $\frac{7}{6}$  1

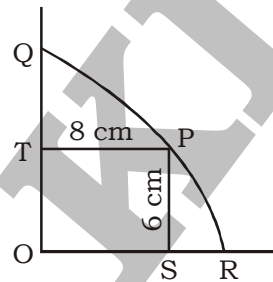
Time taken by leakage to empty the tank =  $\frac{42}{1} = 42$  hours

65. (D) Percentage discount =  $\left(\frac{MP - SP}{MP} \times 100\right)\% = \left(\frac{700 - 625}{700} \times 100\right)\% = 10.71\%$

66. (D) Required speed =  $\left(\frac{100 + 120}{40}\right) \text{ m/s} = \left(\frac{220}{40} \times \frac{18}{5}\right) \text{ km/h} = 19.8 \text{ km/h}$

67. (D) Average age of the family =  $\frac{67 \times 2 + 35 \times 2 + 6 \times 3}{2 + 2 + 3} = \frac{222}{7} = 31\frac{5}{7}$  years

68. (B)

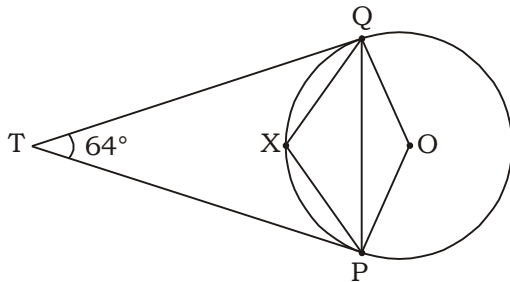


From the figure,

$OP = \sqrt{6^2 + 8^2} = 10 \text{ cm}$

Length of the Arc OR =  $\frac{\pi r \theta}{180} = \frac{\pi \times 10 \times 90}{180} = 5\pi \text{ cm}$

69. (A)



$$\angle PTQ + \angle POQ = 180^\circ$$

$$\angle POQ = 180 - 64 = 116^\circ$$

$$\angle PXQ = 180^\circ - \frac{1}{2} \angle POQ$$

$$= 180^\circ - \frac{1}{2} \times 116^\circ = 122^\circ$$

70. (C)  $\frac{a}{b} = \frac{\sqrt{5}+1}{\sqrt{5}-1} \times \frac{\sqrt{5}+1}{\sqrt{5}-1}$

$$\frac{a}{b} = \frac{(\sqrt{5}+1)^2}{(\sqrt{5}-1)^2}$$

$$\frac{a}{b} = \frac{5+1+2\sqrt{5}}{5+1-2\sqrt{5}}$$

$$\frac{a}{b} = \frac{6+2\sqrt{5}}{6-2\sqrt{5}}$$

$$\frac{a}{b} = \frac{3+\sqrt{5}}{3-\sqrt{5}}$$

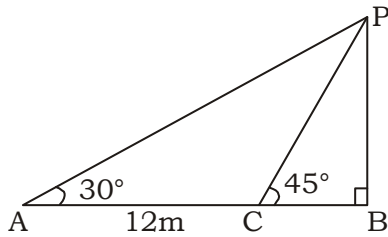
Applying componendo and dividendo, we have

$$\frac{a+b}{a-b} = \frac{3+\sqrt{5}+3-\sqrt{5}}{(3+\sqrt{5})-(3-\sqrt{5})}$$

$$\frac{a+b}{a-b} = \frac{6}{2\sqrt{5}} = \frac{3}{\sqrt{5}}$$

$$\left(\frac{a-b}{a+b}\right)^2 = \left(\frac{\sqrt{5}}{3}\right)^2 = \frac{5}{9}$$

71. (A)



In  $\triangle PBC$ ,

$$\tan 45^\circ = \frac{PB}{BC}$$

$$PB = BC$$

In  $\triangle PBA$ ,

$$\frac{PB}{AB} = \tan 30^\circ$$

$$\frac{PB}{AC + CB} = \frac{1}{\sqrt{3}}$$

$$\frac{PB}{12 + PB} = \frac{1}{\sqrt{3}}$$

$$PB = \frac{12}{\sqrt{3} - 1} = 6(\sqrt{3} + 1) = 6 \times 2.732 = 16.392 \text{ m}$$

72. (C) Expenditure on materials and taxes together =  $(22 + 36)\%$  of 500 = 58% of 500  
 $= 0.58 \times 500 = ₹ 290$  crores

73. (C) Required angle =  $\left(\frac{36}{100} \times 360^\circ\right) = 129.6^\circ$

74. (D)  $25 = x\%$  of 22

$$x = \frac{25 \times 100}{22} = 113.64 \approx 114$$

75. (A) Required amount = 13% of 500 - 4% of 500 = ₹ 45 crores



## MEANINGS IN ALPHABETICAL ORDER

Atheism	disbelief or lack of belief in the existence of God or gods	नास्तिकता
Benevolent	well meaning and kindly	परोपकारी
Boor	an unrefined, ill-mannered person	बेअदब आदमी
Clown	a comic entertainer, especially one in a circus, wearing a traditional costume and exaggerated makeup	विदूषक
Compassionate	feeling or showing sympathy and concern for others	दयालु
Dejection	a sad and depressed state; low spirits	उदासी
Dilate	make or become wider, larger, or more open	चौड़ा करना
Dud	a thing that fails to work properly or is otherwise unsatisfactory or worthless	व्यर्थ
Iconoclasm	the action of attacking or assertively rejecting cherished beliefs and institutions or established values and practices	भंजन
Idolatry	the worship of idols	मूर्ति पूजा
Manhandle	move (a heavy object) by hand with great effort	पीटना
Melodious	of, producing, or having a pleasant tune; tuneful	मधुर
Obsession	the state of being obsessed with someone or something	जुनून
Panicky	feeling or characterized by uncontrollable fear or anxiety	भगदड़ का
Sober	not affected by alcohol; not drunk	गंभीर
Torpid	mentally or physically inactive; lethargic	उदासीन
Tragic	causing or characterized by extreme distress or sorrow	दुखद
Traipse	walk or move wearily or reluctantly	धीरे धीरे चलना
Trivial	of little value or importance	मामूली

**SSC MOCK TEST - 334 (ANSWER KEY)**

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

76. (C) Change 'were' into 'was'. When 'amount of' is used with uncountable nouns, it is followed by a singular verb.
77. (B) Change 'their' into 'his'. 'Each' takes singular pronoun.
86. (B) 'Hang by a thread' is an idiom which means 'to be in a very dangerous situation or state; to be very close to death, failure, etc.'
87. (B) 'Call out' means 'to publicly criticize or fault someone or something.'