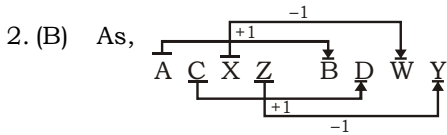# SSC MOCK TEST – 03 (SOLUTION)
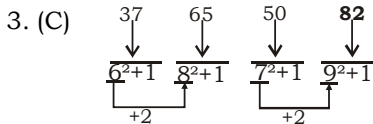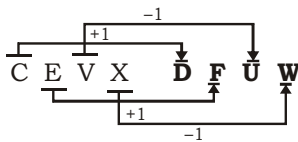
1. (B) Ampere is the unit of Electric Current and **Kilogram** is the unit of **Weight**.

2. (B) As,

Similarly,

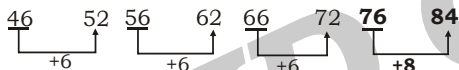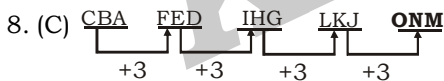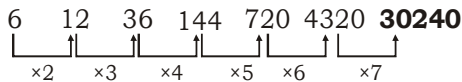
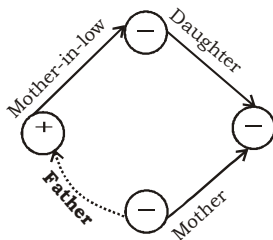3. (C)

4. (C) Except diameter, others are instrument.

5. (D) J F U Q P L **X** **S**
   -4 -4 -4 **-5**

6. (D)

   46 52 56 62 66 72 **76** **84**
      $+6$ $+6$ $+6$ **$+8$**

7. (D) Embitter → Emblem → Embody → Embrace → Embroidery.

8. (C) CBA FED IHG LKJ **ONM**
      $+3$ $+3$ $+3$ $+3$

9. (B)

   6 12 36 144 720 4320 **30240**
    $\times2$ $\times3$ $\times4$ $\times5$ $\times6$ $\times7$

10. (D)

11. (D) M N ☐ O **P** Q

   Second

12. (C) GREEN

13. (A) As,

   Similarly, FROG **GSPH**
         $+1$

14. (A) 8900 α 100 ⊕ 5 θ 4 ⊕ 121 α 11
   After changing the singns as per the given details,
   8900÷100–5×4–121÷11
   = 89–20–11
   = 89–31=58

15. (B) 1 × 2 × 3 ⇒ 2 3 1
      a b c ⇒ b c a
      3 × 4 × 5 ⇒ 4 5 3
      a b c ⇒ b c a
   ∴ 5 × 6 × 7 ⇒ **6 7 5**
      a b c ⇒ **b c a**

16. (D) (4+3)×2 = 14
   (3+5) ×2 = 16
   (6+4) ×3 = **30**

17. (A)
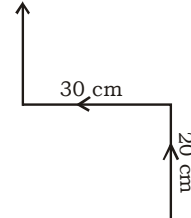
18. (B)
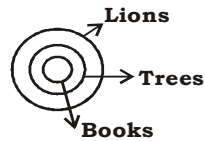
   I. ✓   III. ×
   II. ×   IV. ✓
   ∴ Only conclusions I and IV follow.

19. (D) From fig. (i) & (iii)
   Red **Yellow** Green
   Red **Blue** Violet
   ∴ "Yellow" colour is opposite to "Blue".

20. (C)

21. (D)

22. (B)

23. (D)

24. (D)
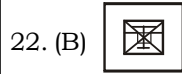
25. (B) L   I   K   E
        57 65 68 02

51. (D) Clock gains in 24 hrs = 15min.

Clock gains in 16 hrs = $\dfrac{15}{24} \times 16$
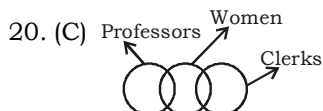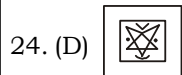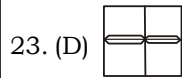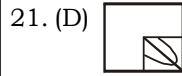
= 10min.

Time shows at 4 AM = 4:10 AM

52. (A) Selling price = $\dfrac{4950 \times 80}{100} \times \dfrac{85}{100}$

= ₹ 3366

53. (B) A.T.Q.,

$15x = 3 \times 10y$

$\Rightarrow \dfrac{x}{y} = \dfrac{2}{1}$

54. (A) Cost Price = ₹ 20,000

Profit = $\dfrac{20,000 \times 50}{500}$ = ₹ 2000

∴ Profit percentage = $\dfrac{2000}{20,000} \times 100$

= 10

55. (A) A.T.Q.,
10% = 30
100% = 300
∴ His salary is ₹ 300

56. (C) Speed of sound = $\dfrac{6640}{20}$ = 332m/sec

57. (B) Simple Interest = $\dfrac{2000 \times 75 \times 2}{1000}$

= ₹ 300

58. (D) $x = 1 + \sqrt{2} + \sqrt{3}$

$\Rightarrow x - 1 = \sqrt{2} + \sqrt{3}$

By squaring both sides

$x^2 + 1 - 2x = 2 + 3 + 2\sqrt{6}$

By subtracting '5' both sides

$x^2 - 2x - 4 = 2\sqrt{6}$

59. (B) $\dfrac{a+b}{\sqrt{ab}} = \dfrac{2}{1}$

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

$\Rightarrow a + b - 2\sqrt{ab} = 0$

$\Rightarrow \left(\sqrt{a} - \sqrt{b}\right)^2 = 0$

$\Rightarrow \sqrt{a} - \sqrt{b} = 0$

$\Rightarrow \sqrt{a} = \sqrt{b}$

$\Rightarrow a = b$

$\Rightarrow a - b = 0$

60. (C) Height of equilateral triangle

= $\dfrac{\sqrt{3}}{2}$ a = $\dfrac{\sqrt{3}}{2} \times 16 = 8\sqrt{3}$ cm

61. (D)
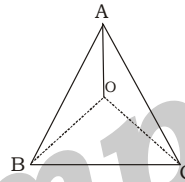
We know that the circumcentre of the triangle is equidistant from all the vertices of Δ.

∴ OA = OB = OC = 8cm

62. (C) $\tan(\theta + 15°) = \sqrt{3}$

$\Rightarrow \tan(\theta + 15°) = \tan 60°$

$\Rightarrow \theta + 15° = 60°$

$\Rightarrow \theta = 45°$

63. (D) HCF of 902 & 1517 = 41

∴ No. of tiles = $\dfrac{1517 \times 902}{41 \times 41}$

= 37 × 22 = 814

64. (B) The number of fruits offered on Tuesday
= (75 – 72) 6 + 75
= 18 + 75
= 93

65. (C) a = $\left[(xy)^{\frac{1}{3}} + \left(\dfrac{1}{xy}\right)^{\frac{1}{3}} \right]$

$\Rightarrow a^3 = xy + \dfrac{1}{xy} + 3a$

$\Rightarrow a^3 - 3a = xy + \dfrac{1}{xy}$

Multiply by $'xy'$ both sides,

$\Rightarrow a^3 xy - 3axy = x^2y^2 + 1$

$\Rightarrow a^3 xy - 3axy - 1 = x^2y^2$

66. (A) $\dfrac{6x}{x\left(x+1+\dfrac{1}{x}\right)}$

$$\Rightarrow \frac{6}{x+1+\dfrac{1}{x}} = \frac{6}{5+1} = \frac{6}{6} = 1$$

67. (B) Area of $\Delta = \dfrac{4}{3} \times \left(\dfrac{1}{2} \times 6 \times 8\right)$

= 32 cm²

68. (C)
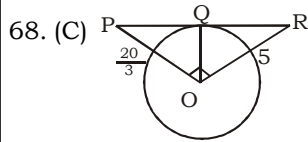
In Δ POR,

PR² = OP² + OR²

$$\Rightarrow PR^2 = 5^2 + \left(\frac{20}{3}\right)^2 \Rightarrow PR = \frac{25}{3} \text{ cm}$$

69. (C)
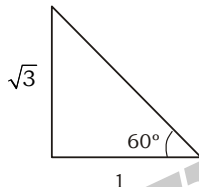
1 unit = 40m

$\sqrt{3}$ units = $40\sqrt{3}$

∴ Height of tower = $40\sqrt{3}$ m

70. (D) Let the radius of the sphere & hemisphere = r cm

A.T.Q.,

$4\pi r^2 : 3\pi r^2$

$\Rightarrow 4 : 3$

71. (A)
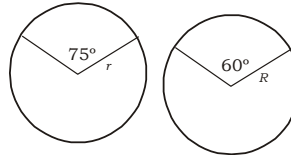
A.T.Q.,

60° × R = 75° × r

$$\frac{R}{r} = \frac{5}{4}$$

$\Rightarrow 5 : 4$

72. (C) ∵ 100 % = 360°

$\Rightarrow 40\% = 144°$

∴Required angle = 144°

73. (B) ∵ 15 % 345

$\Rightarrow$ 100% = 2300

∴Required number of females

$$\frac{2300 \times 3}{(7+3)} = \frac{2300 \times 3}{10} = 690$$

74. (B) ∵ 100% = 360 ⇒ 25% = 90°

∴Required angle = 90°

75. (A) Sales – HR = (40 – 15)% = 25%

$\Rightarrow$ 25% = 2625

$\Rightarrow$ 10% = 1050

∴ Required number of employees = 1050

MEANING OF DIFFICULT WORDS

Word	Meaning in English	Meaning in Hindi
Accomplishment	the successful completion of something	कार्यसिद्धि
Adolescent	the stage between a child and an adult	किशोरावस्था
Adore	to regard with loving admiration and devotion	बहुत चाहना
Ambroisa	the food of the gods, very tasty	अतिस्वादिष्ट भोजन
Bureaucracy	ruled by government officials	नौकरशाही
Castigate	to subject to severe punishment	दंड देना
Circumlocution	not to come to the topic straight	घुमा–फिरा कर बात करना
Debilitate	to impair the strength of	कमजोर करना
Denounce	to pronounce especially publicly to be blameworthy or evil	दोषारोपण करना
Detest	to dislike (someone or something) very strongly	घृणा करना
Devastate	destroy or ruin	नाश करना
Disconsolate	very unhappy or sad	निराश
Exuberant	joyously unrestrained and enthusiastic	उल्लसित, प्रफुल्लित
Formalism	the practice of strict adherence to prescribed forms	रीतिवाद
Harass	to annoy persistently	तंग करना, परेशान करना
Hilarious	extremely funny	हास्यप्रद
Immortal	exempt from death, that never dies	अमर
Impeccable	not capable of sinning, flawless	निष्पाप, निष्कलंक, त्रुटिरहित
Inculcate	to cause (something) to be learned by (someone) by repeating it again and again	अविरत प्रयास से कोई चीज सिखाना
Juvenile	relating to young people	यौवन संबंधी
Loquacious	full of excessive talk	वाचाल, बातूनी
Memorable	worth remembering	स्मरण करने योग्य
Momentary	continuing only a moment	क्षणिक
Momentous	very important	अति आवश्यक
Nepotism	favoritism (as in appointment to a job) based on kinship	भाई–भतीजावाद
Panacea	a remedy for all illness	रामबाण दवा, सर्वरोग हर
Puerile	marked by childishness and immaturity	बचकाना
Red-Tapism	official routine marked by excessive complexity which results in delay or inaction	दफ्तर–शाही, लाल फीताशाही
Resolution	firmness of purpose	इरादा, दृढ़ता
Sombre	having a feeling of deep seriousness and sadness	गंभीर और विषादयुक्त
Upbringing	a particular way of bringing up a child	पालन–पोषण
Verbosity	containing more words than necessary	शब्दाडंबर

SSC MOCK TEST - 03 (ANSWER KEY)

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

82. (B) If 'of' is used after each, every, one, etc., the noun or pronoun that comes immediately after 'of' will be plural in form. However the verb, pronoun, adjective, etc., that comes in the latter part of the sentence will be singular in form.

Ex: One of the boys [Plural Noun] has [S.V.] done his [S.A.] work.

Hence replace 'have' [Plural] with 'has' [Singular].

83. (A) Replace objective case 'me' with nominative cause 'I'. Also the order of pronoun should be 231 (i.e. Second Person, Third Person, First Person). Hence replace 'me and my wife' with 'my wife and I'

84. (B) Replace 'many' with 'much'.

92. (A) 'beside' - 'at the side of', 'next to'. 'besides' - 'in addition to'.

94. (A) After 'has/ have', V_3 of verb is used. Hence replace 'took' with 'taken'.
- Also If an idea, belief or system takes root, it becomes established and accepted.

95. (*) Both underlined Part and option (B) are correct as both mean the same.

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