

SSC MOCK TEST – 216 (SOLUTION)

1. (C) Calendar contains dates while Index contains contents.
 2. (A) As, $243 \Rightarrow 2 + 4 + 3 = 9$
 $819 \Rightarrow 8 + 1 + 9 = 18 \Rightarrow 1 + 8 = 9$
 Similarly, $163 \Rightarrow 1 + 6 + 3 = 10$
487 $\Rightarrow 4 + 8 + 7 = 19 \Rightarrow 1 + 9 = 10$

3. (C) As, K J V H
 $\downarrow +2 \downarrow +2 \downarrow +2 \downarrow +2$
 M L X J
 Similarly, P G D R
 $\downarrow +2 \downarrow +2 \downarrow +2 \downarrow +2$
R I F T

4. (A) **(4, 16, 48) = (4, 4², 4² × 3)**
 $(6, 36, 90) = (6, 6^2, 6^2 \times 2.5)$
 $(8, 64, 160) = (8, 8^2, 8^2 \times 2.5)$
 $(12, 144, 360) = (12, 12^2, 12^2 \times 2.5)$
 5. (B) Except "T", others are vowels.
 6. (C) Except "Cylinder", others have plane surface while cylinder has curved surface.
 7. (A) Decollete → Decorous → Desecerate → Despicable → Destitute
 8. (D) Order of height is Nikku > Bhanu > Ritesh
 ∴ **Nikku** has maximum height.

9. (B)

 ∴ Q is uncle of S.

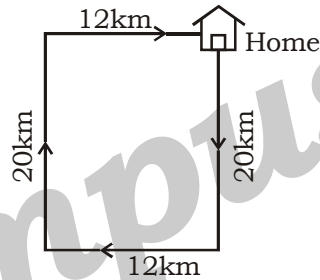
10. (C) c **b** a b **a** c a **c** b c **b** a
 last character comes 1st in the series of c b a.

11. (A)

12. (C) A B
 7 5
 difference = 2
 2 units = 4 years
 ∴ 1 unit = 2 years
 After 5 years, ages of A of B = 14 years & 10 years
 Present ages of A and B = **9** years & **5** years

13. (B) $(1 \times 2 \times 5 \times 3) + (1 + 2 + 5 + 3) = 41$
 $(4 \times 3 \times 6 \times 2) + (4 + 3 + 6 + 2) = 159$
 $(5 \times 7 \times 3 \times 2) + (5 + 7 + 3 + 2) = 227$
 14. (D) Using option (D), we get
 $18 \times 6 \div 8 - 12 = 36$
 After changing the signs as per given details,
 $18 \div 6 \times 8 + 12 = 36$
 $\Rightarrow 3 \times 8 + 12 = 36$
 $\Rightarrow 36 = 36$
 Hence, options (D) is right answer.
 15. (B) As,
 PEN - TAN $\Rightarrow (16+5+14) - (20+1+14) = 0$
 Similarly,
 DEN - COB $\Rightarrow (4+5+14) - (3+15+2) = 3$

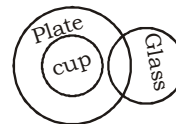
16. (B) According to question in English paper



Initial and final distance = zero

17. (C) 11 rectangles

18. (C)

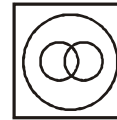


I. ×

II. ×

Hence, Neither conclusion I nor conclusion II follows.

19. (B)



20. (C) $21 \div 3 \times 11 = 77$
 $36 \div 4 \times 12 = 108$
 Similarly,
 $24 \div x \times 14 = 112$

$$= \frac{24}{x} = \frac{112}{14}$$

$$\therefore 112x = 24 \times 14$$

$$112x = 336$$

$$\therefore x = 336 \div 112$$

$$x = 3$$

21. (D)

22. (B)

23. (B)

24. (D)
25. (D) P A L E
↓ ↓ ↓ ↓
20, 04, 79, 87
27. (B) Arvind is an Indo-Australian writer and journalist. His debut novel, *The White Tiger*, won the 2008 Man Booker Prize. Rasipuram Krishnaswami Iyer Narayanaswami was an Indian writer known for his works set in the fictional South Indian town of Malgudi. He was a leading author of early Indian literature in English along with Mulk Raj Anand and Raja Rao. Nilanjana Sudeshna "Jhumpa" Lahiri is an American author known for her short stories, novels and essays in English, and, more recently, in Italian. Her debut collection of short-stories *Interpreter of Maladies* (1999) won the Pulitzer Prize for Fiction and the PEN/Hemingway Award, and her first novel, *The Namesake* (2003), was adapted into the popular film of the same name. Ruskin Bond is an Indian author of British descent. He was awarded the Sahitya Academy Award in 1992 for *Our Trees Still Grow in Dehra*, his novel in English. He was awarded the Padma Shri in 1999 and the Padma Bhushan in 2014.
28. (B) Coorg is known as "Scotland of India" because of its beautiful landscapes. Culinary aspects Coorg is a city in the state of Karnataka.
31. (B) The Treaty of Mangalore was signed between Tipu Sultan and the British East India Company on 11 March 1784. It was signed in Mangalore and brought an end to the Second Anglo-Mysore War.
33. (B) Ombudsman was formed on 19 march, 2019. Pinaki Chandra Ghose is the first Ombudsman. Judicial members- Dilip Bhosale, Pradip Kumar Mohanty, Abhilasha Kumari and Ajay Kumar Tripathi. Non- Judicial members- Dinesh Jain, Archana Ramasundaram, Mahender Singh and Dr. Indrajeet Prasad Gautam.
35. (C) The Reserve Bank of India (RBI) launched the Automated Data Flow (ADF) project to ensure accurate regulatory reporting by banks in India.
36. (B) Best Countries Rankings
1. Switzerland
2. Japan
3. Canada
4. Germany
5. United Kingdom
39. (C) Petra is famous archaeological site in Jordan's. It is known as 'Rose city'. Its Area is 264 km². Acropolis Museum is an archaeological museum focused on the findings on the archaeological site of the Acropolis of Athens. The museum founded in 2003 while it is established on 20 June, 2009.
41. (C) The Battle of Chillianwala was fought in 1849 during Second Anglo-Sikh war in Punjab. It was fought between East India Company and Sikh Empire. Both armies held their positions at the end of the battle and both sides claimed victory. Sir Hugh Gough was the leader from East India Company side and Sardar Sher Singh Attariwala was the leader from Sikh Empire side.
42. (B) The title of 'The Father of Western Medicine' in Hippocrates. Samuel Cockburn was a Scottish soldier. George Vithoulkas is Greek teacher and practitioner of Homeopathy. He was awarded Right Livelihood Award (1996).
43. (C) Limestone is a carbonate sedimentary rock that is often composed of the skeletal fragments of marine organisms such as coral, foraminifera, and molluscs. Its major materials are the minerals Calcite and Aragonite, which are different crystal forms of calcium carbonate (CaCO₃).
44. (B) Sorrow of Bihar - Kosi
Sorrow of Bengal - Damodar
Sorrow of Assam - Brahmaputra
Sorrow of Karnataka - Doni
Sorrow of UP - Ghagra
48. (A) The Securities and Exchange Board of India (SEBI) was established in 1988 and given Statutory Powers on 12 April 1992 through the SEBI Act, 1992.
49. (C) Pankaj Advani is also Known as The Prince of India, The Golden Boy and The Prince of Pune. He has awarded with the Arjuna Award (2004), Rajiv Gandhi Khel Ratna (2006), Padma Shri (2009) and Padma Bhushan (2018). Sachin Tendulkar awarded with Arjuna Award (1994), Rajiv Gandhi Khel sRatna (1997), Padma Shri (1999), Padma Vibhushan (2008) and Bharat Ratna (2014).

51. (A) Let the bank makes a transaction of ₹x crore.

A.T.Q,
(30 - 26.5)% of x = 21 crore

$$\frac{3.5}{100} \times x = 21$$

$$\therefore x = \frac{21 \times 100}{3.5} = 600 \text{ crore.}$$

52. (D) Total CP of [25kg + 35kg] rice
= ₹ (25 × 16.50 + 35 × 24.50)
= ₹ (412.50 + 857.50)
= ₹ 1270.

$$\text{SP @ 25\% profit} = ₹ [1270 \times 1.25] \\ = ₹ 1587.5$$

$$\therefore \text{Required rate} = \frac{1587.5}{60} \\ = ₹ 26.45 \text{ per kg}$$

53. (A) Let Rajesh and Rakesh weights are = 4x and 5x respectively

Now:-
115 units → 82.5

$$100 \text{ units} \rightarrow \frac{82.5}{115} \times 100 = 72 \text{ kg}$$

$$\text{A.T.Q,} \\ \Rightarrow 5x + 4x = 72 \\ x = 8$$

$$\therefore \text{Rajesh's weight} = 8 \times 4 = 32 \text{ kg}$$

$$\text{Rakesh's weight} = 5 \times 8 = 40 \text{ kg}$$

$$\text{Their increased weight} = 82.8 - 72 \\ = 10.8 \text{ kg}$$

$$\text{Rajesh's weight} = 32 \times 10\% = 3.2 \text{ kg}$$

$$\text{Rakesh's increased weight} = [10.8 - 3.2] \\ = 7.6 \text{ kg}$$

$$\therefore \% \text{ increase} = \frac{7.6}{40} \times 100 = 19\%$$

54. (D) 

A →

B →

Given that:-

Speed of A = 60km/hr

$$\text{Distance travelled in 6 hr} = 60 \times 6 \\ = 360 \text{ km}$$

At 4:00 pm:-

Speed of B = 72 km/hr

Time difference = 6 hours

$$\text{Relative velocity} = [72 - 60] = 12 \text{ km/hr}$$

Now:-

Time - gap (meeting)

$$= \frac{360}{12} = 30 \text{ hr after they meet each}$$

others

⇒ They will meet at 4 pm Sunday + 30 hours = 10 pm Monday.

55. (A) Ratio of CP = 1 : 2 : 3

Ratio of no of articles

sold = 2 : 5 : 2

Total CP = 2 : 10 : 8

Ratio of % profit = 10% : 20% : 25%

$$\text{SP} = (2 \times 1.1) : (1.2 \times 10) : (8 \times 1.25)$$

$$\text{Total SP} = 2.2 : 12 : 10 \\ = 24.2$$

$$\text{So, net \% profit} = \frac{24.2 - 20}{20} \times 100 = 21\%$$

56. (C) A.T.Q,

$$\text{Mohan} = 25000 \times (36 \text{ months}) \\ = ₹900000$$

$$\text{Abhishek} = [15000 \times 30 + 15000 \times 24] \\ = ₹810000$$

∴ Profit share in the ratio = 10 : 9

$$= \frac{\text{Abhishek}}{\text{Mohan} + \text{Abhishek}} \times 247000$$

$$= \frac{9}{19} \times 247000 = ₹1,17,000$$

57. (B) 12 men takes 18 days to complete 1 unit work.

$\frac{3}{4}$ th work done by 12 women in 18 days

3 units → 18 days

4 units → 24 days

Hence 12 women complete the whole work in 24 days.

Now, 10 men and 8 women will complete

$$\frac{10}{18 \times 12} + \frac{8}{12 \times 24} = \frac{5}{9 \times 12} + \frac{1}{12 \times 3}$$

$$= 13 \frac{1}{2} \text{ days.}$$

Hence, 10 men and 8 women will

complete the whole work in $13 \frac{1}{2}$.

58. (D) Let the sale is above ₹10000 = ₹x

A.T.Q,

$$95\% \text{ of } 10000 + 96\% \text{ of } x = 31100$$

$$\Rightarrow \frac{95}{100} \times 10000 + \frac{96}{100} \times x = 31100$$

$$\Rightarrow 0.95 \times 10000 + 0.96 \times x = 31100$$

$$\Rightarrow 0.96x = 31100 - 9500$$

$$\therefore x = \frac{21600}{0.96} = 22500$$

$$\therefore \text{Total sale worth,} \\ = ₹[10000 + 22500] \\ = ₹32500$$

59. (C) Time taken by pipe B (to empty) is less than the time taken by pipe A (to fill)

⇒ Rate of empty > Rate of filling

Now, Time required to empty the $\frac{2}{5}$ th of

the tank already filled when both the pipe A and B are opened together.

$$= \frac{2}{5} \times \left(\frac{10 \times 6}{10 - 6} \text{ min.} \right)$$

$$= 6 \text{ minutes}$$

Hence, tank will empty in 6 minutes.

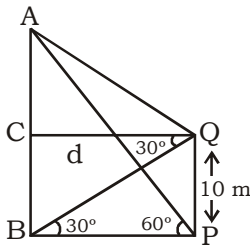
60. (D) Let the number of wickets taken till last match = n
 \therefore Total runs @ 24.85 run/wicket = $(24.85)n$
 Total run after current match = $24.85n + 52$
 Total number of wicket = $(n + 5)$
 A.T.Q,

$$\frac{(24.85)n + 52}{n + 5} = 24.85 - 0.85$$

or, $24.85n + 52 = 24 \times (n + 5)$
 or, $24.85n - 24n = 120 - 52$

$$\therefore n = \frac{68}{0.85} = 80$$

61. (B)



AB = Tower
 QP = 10 metres
 IN $\triangle QBP$

$$\tan 30^\circ = \frac{QP}{PB} \Rightarrow \frac{1}{\sqrt{3}} = \frac{QP}{PB} \Rightarrow QP : PB = 1 : \sqrt{3} \quad \dots(i)$$

$$\tan 60^\circ = \frac{AB}{BP} \Rightarrow \sqrt{3} = \frac{AB}{BP} \Rightarrow AB : BP = \sqrt{3} : 1$$

... (ii)
 CB = QP and CQ = BP
 Now,

$$\mathbf{AB : BP : CB}$$

$$\sqrt{3} : 1 : \sqrt{3}$$

$$\begin{array}{ccc} 3 & : & \sqrt{3} & : & 1 \\ \downarrow \times 10 & & & & \downarrow \times 10 \\ 30 \text{ m} & & & & 10 \text{ m} \end{array}$$

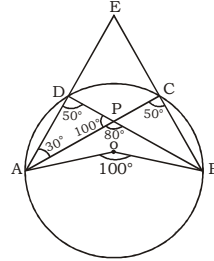
62. (A) $\sqrt{\frac{x}{x+3}} - \sqrt{\frac{x+3}{x}} = \frac{-3}{2}$

or, $\frac{x - x - 3}{\sqrt{x} \cdot \sqrt{x+3}} = \frac{-3}{2}$

or, $2 = \sqrt{x}(\sqrt{x+3})$

Squaring,
 $x^2 + 3x - 4 = 0$
 $(x - 1)(x + 4) = 0$
 $\therefore x = 1, -4$

63. (B)



Given that,
 $\angle AOB = 100^\circ$
 $\therefore \angle ADB = 50^\circ$
 $\angle ACB = 50^\circ$
 [\therefore Angle on minor sections]

Now,
 In $\triangle ADP$,
 $\angle A + \angle D + \angle P = 180^\circ$
 $\therefore \angle P = 180^\circ - 30^\circ - 50^\circ$
 $\angle P = 100^\circ$
 Now,
 $\angle APB = 180^\circ - 100^\circ = 80^\circ$

64. (B)

Rectangle having,
 $l = 5$ units
 $b = 4$ units
 Area = $l \times b = 5 \times 4 = 20$ sq. units
 New rectangle having,
 $l = 7$ units
 $b = 3$ units
 Area = $l \times b = 7 \times 3 = 21$
 Ratio = $\frac{20}{21} = 20 : 21$

65. (D)

Volume of the wood
 = outer volume - inner volume
 = $21.75 \times 60.75 \times 30.75 - 21 \times 60 \times 30$
 = $40630.3594 - 37800 \text{ cm}^3$
 = 2830.3594 cm^3
 Weight of the wood = $2830.3594 \times 0.9 \text{ gm}$
 = 2547.32 gm

66. (B)

First number \times Second number
 = 29×4147
 = $29 \times 29 \times 11 \times 13$
 = $(29 \times 11) \times (29 \times 13)$
 = 319×377
 \therefore Sum of two numbers = $319 + 377 = 696$

67. (C)

$$\frac{0.8 \times 0.8 \times 0.8 + 0.2 \times 0.2 \times 0.2 + 0.2 \times 0.8 \times 3}{0.8 \times 0.8 + 0.2 \times 0.2 + 0.32}$$

$$= \frac{0.8 \times 0.8 \times 0.8 + 0.2 \times 0.2 \times 0.2 + 3 \times 0.8 \times 0.2 \times 1}{0.8 \times 0.8 + 0.2 \times 0.2 + 2 \times 0.8 \times 0.2}$$

$$= \frac{(0.8)^3 + (0.2)^3 + 3 \times 0.8 \times 0.2 \times (0.8 + 0.2)}{(0.8)^2 + (0.2)^2 + 2 \times 0.8 \times 0.2}$$

$$= \frac{(0.8 + 0.2)^3}{(0.8 + 0.2)^2} = \frac{1^3}{1^2} = \frac{1}{1} = 1$$

68. (B)

A.T.Q,
 $P \left(1 + \frac{20}{100} \right)^t > 2P$

(where P → Principal and t → required no. of years)

$$\text{or } \left(1 + \frac{1}{50}\right)^t > 2 \quad \text{or } \left(\frac{6}{5}\right)^t > 2$$

Now,

$$\left(\frac{6}{5}\right)^t < 2, \left(\frac{6}{5}\right)^2 < 2, \left(\frac{6}{5}\right)^3 < 2 \text{ but } \left(\frac{6}{5}\right)^4 > 2$$

⇒ Required least no. of complete years = 4 years

69. (C) -24, -20, -16.....

Let n = required no. of terms

Now,

$$S_n = \frac{n}{2} \{2a + (n-1)d\}$$

$$\text{i.e. } 180 = \frac{n}{2} \{2 \times (-24) + (n-1)4\}$$

$$\text{or, } 180 = \frac{n}{2} \{-48 + 4n - 4\}$$

$$\text{or, } 360 = 4n^2 - 52n$$

$$\text{or, } 4n^2 - 52n - 360 = 0$$

$$\Rightarrow n = 18$$

70. (C) T.S.A of prism = C.S.A + 2 × Area of base

$$\Rightarrow 608 = \text{Perimeter of base} \times \text{height} +$$

$$2 \times \text{Area of base}$$

$$\Rightarrow 608 = 4x \times 15 + 2 \times 2$$

(where x = side of square)

$$\Rightarrow x^3 + 30x - 304 = 0$$

$$\Rightarrow (x-8)(x+38) = 0$$

$$\Rightarrow x = 8$$

$$\Rightarrow \text{Volume of prism} = \text{Area of base} \times \text{height} = 8 \times 8 \times 15 = 960 \text{ cm}^3$$

71. (A) $\tan\theta + \cot\theta = \frac{\sin^2\theta + \cos^2\theta}{\sin\theta \cos\theta}$
 $= \text{cosec}\theta \sec\theta = \sqrt{1 + \cot^2\theta} \sqrt{1 + \tan^2\theta}$

72. (B) Required answer is

$$\frac{(20+16)}{100} \times 3500 - \left(\frac{18+12}{100}\right) \times 1500$$

$$1260 - 450 = 810$$

73. (C) Required answer is

$$15 \times 38 : \left(3500 \times \frac{22}{100} - 1500 \times \frac{11}{100}\right)$$

$$= 15 \times 38 : 605 = 114 : 121$$

74. (D) $\frac{32}{100} \times 1500 = 480$

75. (A) $(35 \times 16) + \frac{1}{5} (15 \times 11) = 560 + 33$
 $= 593$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Aegis	Support of a particular person or organization	संरक्षण, सहारा
Arid	having insufficient rainfall to support vegetation	शुष्क
Commodious	having a lot of space	विशाल
Cascade	typically one of several that fall in stages down a steep rocky slope	जल-प्रपात
Elusive	hard to comprehend or define	अवर्णणीय
Equivocate	use ambiguous language so as to conceal the truth	गोलमोल बात कहना
Evasive	tending to avoid commitment or self-revelation	मुकरने वाला
Hurricane	a storm with a violent wind	झंझावात
Irony	typically for humorous or emphatic effect.	व्यंग्य
Pared (Verb)	trim (something) by cutting away its outer edges	काट-छाँट करना
Patronage	the support given by a patron.	संरक्षण
Peel (off)	leave a formation or group by veering away.	छीलना
Prevaricate	to avoid telling the truth by not directly answering a question	जवाब देने से बचना
Scrawny	unattractively thin and bony.	सूखा
Oxymoron	a figure of speech in which apparently contradictory terms appear in conjunction	विपरीत अर्थ के शब्दों का साथ प्रयोग
Voluminous	using large amounts of	मोटा, भारी

SSC MOCK TEST - 216 (ANSWER KEY)

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

76. (B) The error is in the second part of the sentence. "Depends on" is the correct phrase and "depend under" is incorrect.
77. (B) The error lies in the second part of the sentence. The sentence is in the present tense as indicated by "If you have creative streak which you have never... gather your energy and move towards it." However, "interested" in the second part should be changes to the passive voice simple present. Hence, the second part should read as: "pursued or are interested in a new field".
78. (A) The error lies in the first part of the sentence. The adverb "too" before "have" is incorrect here and should be replaced

- by "to" to convey the correct meaning.
79. (D) Indivisible means unable to be divided or separated.
 Invincible means too powerful to be defeated or overcome.
 Invisible means unable to be seen.
 Inexplicable means unable to be explained or accounted for.
 The airline had no explanation to give the passengers regarding the delay of the plane. So, the noun "departure" could be modified by the adjective "inexplicable".
80. (A) The phrasal verb "plunge into" means to suddenly start doing something with energy and enthusiasm, but sometimes without thinking about it first. It fits best in the given sentence..
87. (C) This given sentence is a conditional sentence and we use such sentences to talk about situations in the past that did not actually happen. We use the **past perfect tense** in the **if-clause** and **would have + past participle** in the main clause..
88. (A) A think tank is a singular noun, thus should be followed by a singular verb i.e. 'estimates'. Also, as 'estimates' is used thus the past form of the verb will not be used, thereby making 'claimed' incorrect for usage
89. (B) as liquor is uncountable noun thus "few" or "fewer" should not be used.
 little - less - least.
 Few- fewer- fewest
 Since "less" itself is a comparative degree adjective thus "lesser" doesn't make any sense.
 "Fewer" is used as it is a comparative degree of "few".

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