

### KD Campus Pvt. Ltd

1997, OUTRAM LINE, KINGSWAY CAMP. DELHI: 110009

# SSC MOCK TEST - 218 (SOLUTION)

- (D) Ammeter is used to measure current whereas Anemometer is used to measure wind.
- 2. (C) As,  $5^3 + 5 = 130$ Similarly,  $6^3 + 6 = 222$
- 3. (B) As,  $\begin{array}{ccc}
  B & P & T & W \\
  +1 & +1 & +1 & +1 & +1 \\
  C & O & M & X
  \end{array}$

Similarly, C H N S +1 +1 +1 +1 +1D I O T

- 4. (C) Except 'Credible : Deceptive', all other pairs are synonym to each other.
- 5. (B)  $C \xrightarrow{+1} D$   $P \xrightarrow{+2} R$   $S \xrightarrow{+1} T$   $W \xrightarrow{+1} X$

6.

(B) 2 + 3 + 4 = 9 3 + 4 + 5 = 122 + 4 + 3 = 9

4 + 3 + 2 = 9

- 7. (D) Interview Job Probation Confirmation Promotion
- 8. (B)

  W
  Daughter-in-law
  Son
  Father

  R

  M
  Brother

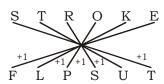
  V
- 9. (B) 4, 12, 16 4 + 12 = 16 Similarly, 64, 36, 100

⇒ 64 + 36 = 100

- 10. (A) F I M P T W
- 11. (C) 5 12 26 54 110

12. (C) M: SPresent  $\rightarrow 4x: 7x$ 

- (7x + 5) (4x + 5) = 18  $\Rightarrow 3x = 18$   $\Rightarrow x = 6$ Sum of Mitali and Shabnam age's = 11x = 66
- 13. (C) Study is related to knowledge.Similarly,Work is related to experience.
- 14. (A) As,



Similarly,



15. (B)  $15 + 5 - 10 \times 6 \div 12 = 6$ From option B

 $\Rightarrow 15 + 5 \div 10 \times 6 - 12$ 

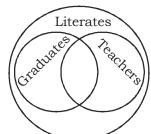
 $\Rightarrow$  15 + 5 ÷ 10 × 6 – 12

 $\Rightarrow 15 + 3 - 12 = 6$ 

16. (B)  $3 \to 4$ , 1  $3 \to 2$ , 6

If 4 is on the bottom then 2 is at the top.

17. (A)

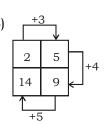


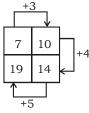
18. (C) roads streets lanes

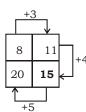
Either conclusion I or II follows.

- 19. (A)
- 20. (B)

21. (B)







- 22. (C)
- 23. (D)
- 24. (B)
- 25. (D) S R 1  $\downarrow$ 1 30, 21, 77,
- 27. (A) Anjaneri-1280 m Salher-1,567 m Taramati-1431 m Kalsubai-1646 m
- 31. (C) Men's Singles Women's Singles Shi Yuqi Chen Yufei
- 33. (C) Parenchyma the cellular tissue, typically soft and succulent are found chiefly in the softer parts of leaves, pulp of fruits, bark and pith of stems, etc.

The basic function of xylem is to transport water from roots to stems and leaves, but it also transports nutrients. Sclerenchyma-Strengthening tissue in a plant, formed from cells with thickened, typically lignified, walls.

37. (B) A budget deficit occurs when expenses exceed revenue and indicate the financial health of a country. Primary deficit refers to difference between fiscal deficit of the current year and interest payments on the previous

borrowings.

A revenue deficit occurs when realized net income is less than the projected net income. This happens when the actual amount of revenue and/or the actual amount of expenditures do not correspond with budgeted revenue and expenditures.

40. (B) Article 152 - unless the context otherwise, requires, the expression State does not include the State of Jammu and Kashmir CHAPTER II THE EXECUTIVE The Governor.

Article 151-Audit reports

Article 154-Governors of States There shall be Governor for each State: Provided that nothing in this article shall prevent the appointment of the same person as Governor for two or more States.

- 42. (C) The Third Anglo-Maratha War (1817-1818) was the final and decisive conflict between the British East India Company (EIC) and the Maratha Empire in India.
- (C) Marsupials are any members of the mammalian infraclass Marsupialia. All existing marsupials are endemic to Australasia and the Americas. A distinctive characteristic common to these species is that most of the young are carried in a pouch.
- (A) 1. Brazil 768.68 million tons
  - 2. India 348.45 million tons
  - 3. China 122.66 million tons
  - 4. Thailand 87.47 million tons
- 49. (C) INTERPOL was launched in 1923, Headquartered - Lyon, France. Its motto is connecting place for a safer world. President - Kim Jong Yana (South 88th General Assembly has been held in Santiago, Chile on 15 October, 2019.
- 51. (B) Let the speeds of the two train be  $x \, \text{m/sec}$ and y m/sec respectively.

Then, length of the first train

= 27x metres,

and length of the second train = 17 y metres.

$$\frac{27x + 17y}{x + y} = 23$$

$$\Rightarrow$$
 27x + 17y = 23x + 27y

$$\Rightarrow$$
 4x = 6y

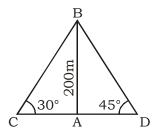
$$\Rightarrow \frac{x}{y} = \frac{3}{2}$$

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52. (C) Let AB be the lighthouse C and D be the positions of the ships.



Then, AB = 200m,  $\angle$ ACB = 30° and  $\angle$ ADB = 45°

$$\therefore \frac{AB}{AC} = \tan 30^{\circ} = \frac{1}{\sqrt{3}}$$

$$\Rightarrow$$
 AC = AB  $\times \sqrt{3}$  = 200  $\sqrt{3}$  m.

and, 
$$\frac{AB}{AD}$$
 = tan45° = 1

$$\Rightarrow$$
 AD = AB = 100m.

:. 
$$CD = (AC + AD) = (200\sqrt{3} + 200)m$$
  
=  $200(\sqrt{3} + 1)$   
=  $(200 \times 2.73)m$   
=  $546m$ .

53. (B) Let the initial quantity of liquid P and Q = 7x and 4x ATQ,

$$\frac{7x - \frac{22}{11x} \times 7x}{4x - \frac{22}{11x} \times 4x + 15} = \frac{4}{3}$$

 $\Rightarrow x = 14$ Hence, the quantity of liquid P = 14 × 7 = 98 litres

$$\therefore \text{ Required percentage} = \left(\frac{295}{420} \times 100\right)\%$$

$$=\frac{1475}{21}\% = 70\%$$
 (approximately)

55. (C) Clearly, the numbers which have 1 or 9 in the unit's digit, have squares that end

in the digit 1. Such numbers from 1 to 70 are 1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69.

Number of such number = 14

∴ Required percentage = 
$$\left(\frac{14}{70} \times 100\right)\%$$
  
= 20%

56. (B) Required average = 
$$\left(\frac{67 \times 2 + 35 \times 2 + 6 \times 3}{2 + 2 + 3}\right)$$

$$=\left(\frac{134+70+18}{7}\right)$$

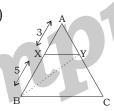
$$=\frac{222}{7}=31\frac{5}{7}$$
 years

57. (B) ATQ.,

Putting x = 1 and y = 2 then 789x531y is divisible by 9.

Then, 
$$(6x - 4y)$$
  
=  $6(1) - 4(2)$   
=  $-2$ 

58. (A)



ATQ,

$$\Delta AXY \simeq \Delta ABC$$

then, 
$$\frac{\text{area of } \Delta \text{ AXY}}{\text{area of } \Delta \text{ ABC}} = \left(\frac{\text{AX}}{\text{AB}}\right)^2$$

$$\Rightarrow \frac{\text{area of } \Delta \text{ AXY}}{16} = \left(\frac{3}{8}\right)^2 = \frac{9}{64}$$

area of 
$$\triangle AXY = \frac{9}{64} \times 16 = 2.25 \text{cm}^2$$

∴ area of trapizium BCYX = 
$$16 - \frac{9}{4} = \frac{55}{4}$$
 cm<sup>2</sup>

then, 
$$\frac{\text{area of } \Delta \text{ BXY}}{\text{area of } \Delta \text{ BYC}} = \frac{\frac{1}{2} \times h \times XY}{\frac{1}{2} \times h \times BC} = \frac{3}{8}$$

∴ area of 
$$\triangle BXY = \frac{55}{4} \times \frac{3}{11} = \frac{15}{4} = 3.75 \text{ cm}^2$$

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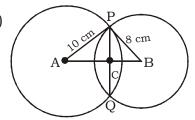
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59. (C) 
$$x^3 + y^3 + z^3 - 3xyz = (x + y + z)$$
  
 $(x^2 + y^2 + z^2 - xy - yz - zx)$   
 $= 19 [(x + y + z)^2 - 2(xy + yz + zx) - (xy + yz + zx)]$   
 $= 10 [10^2 - 2 \times 114]$ 

$$= 19 \left[ 19^2 - 3 \times 114 \right]$$

$$\therefore \sqrt{x^3 + y^3 + z^3 - 3xyz} = \sqrt{361} = 19$$

60. (C)



AB = x cm and PQ = 12 cm. AB always bisects PQ in PC = CQ = 6 cm

$$AC = \sqrt{10^2 - 6^2} = \sqrt{100 - 36} = 8$$

BC = 
$$\sqrt{8^2 - 6^2}$$
 =  $\sqrt{64 - 36}$  =  $\sqrt{28}$ 

$$x = AB = AC + BC = 8 + 5.29$$
  
= 13.29 \approx 13.3 cm

61. (D) Let rate (for annually) = 2r then, rate (for half yearly) = r ATQ,

$$1000 \left(1 + \frac{r}{100}\right)^3 = 1331$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^3 = \frac{1331}{1000} = \left(\frac{11}{10}\right)^3$$

$$\Rightarrow r = 10$$
Hence, the rate = 2 × 10 = 20%

62. (C) ATQ.,

$$\frac{23 - x}{39 - x} = \frac{32 - x}{56 - x}$$

$$\Rightarrow$$
 23 × 56 – 79x +  $x^2$  = 39 × 32 – 71x +  $x^2$ 

$$\Rightarrow$$
 8x = 23 × 56 – 39 × 32

$$\Rightarrow x = 23 \times 7 - 39 \times 4$$

$$\Rightarrow x = 161 - 156$$

$$\Rightarrow x = 5$$

Mean proportion

$$= \sqrt{(x+4)(3x+1)}$$
$$= \sqrt{9 \times 16} = 12$$

63. (D) 
$$2\frac{7}{8} \div \left(3\frac{5}{6} \div \frac{2}{7} \text{ of } 2\frac{1}{3}\right) \times \left[\left(2\frac{6}{7} \text{ of } 4\frac{1}{5} \div \frac{2}{3}\right) \times \frac{5}{9}\right]$$
  

$$= \frac{23}{8} \div \left(\frac{23}{6} \div \frac{2}{7} \times \frac{7}{3}\right) \times \left[\left(\frac{20}{7} \times \frac{21}{5} \times \frac{3}{2}\right) \times \frac{5}{9}\right]$$

$$= \frac{23}{8} \div \frac{23}{4} \times \left[12 \times \frac{3}{2} \times \frac{5}{9}\right]$$

$$= \frac{1}{2} \times 10 = 5$$

$$= (560 - 336) = \frac{224}{4}$$
$$= 56 \text{ days}$$

65. (D) 
$$x^2 - 6x + k = 0 \Rightarrow \alpha + \beta = 6$$
 and  $\alpha\beta = k$  solving by this  $\alpha + \beta = 6$  and  $3\alpha + 2\beta = 20$ 

$$\Rightarrow$$
 α = 8, β = -2 (Putting these values in αβ = k)  
8 × (-2) = k  $\Rightarrow$  k = -16

66. (C) 
$$x \cos\theta = y \cos\left(\theta + \frac{2\pi}{3}\right) = z \cos\left(\theta + \frac{4\pi}{3}\right)$$

$$\frac{k}{x} + \frac{k}{u} + \frac{k}{z} = \cos\theta + \cos\left(\theta + \frac{2\pi}{3}\right) + \cos\theta$$

$$\left(\theta + \frac{4\pi}{3}\right)$$

$$= \cos\theta + \cos\theta \cos\left(\frac{2\pi}{3}\right) - \sin\theta \sin\left(\frac{2\pi}{3}\right) +$$

$$\cos\theta\cos\left(\frac{4\pi}{3}\right) - \sin\theta\sin\left(\frac{4\pi}{3}\right)$$

$$=\cos\theta - \frac{\cos\theta}{2} - \frac{\sqrt{3}}{2}\sin\theta + \frac{1}{2}\cos\theta + \frac{\sqrt{3}}{2}$$

$$\sin\theta = \frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$$

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#### 67. (C) Let the profit be x

As, 5% is for charity, so rest 95% is divided between A and B in the ratio 3:2

A's profit = 
$$0.95x \times \frac{3}{5}$$

ATQ,

$$0.95x \times \frac{3}{5} = 855$$

$$\Rightarrow$$
  $x = \frac{855 \times 5}{0.95 \times 3} = 1500$ 

∴ Total Profit = ₹1500

#### 68. (A) ATQ.,

$$r = \frac{7}{2}$$
 cm,  $h = 40$  cm.

$$\therefore \text{ Volume} = \pi r^2 h = \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times 40$$

 $= 1540 \text{cm}^3$ 

#### :. Curve surface area

$$= 2 \times \frac{22}{7} \times \frac{7}{2} \times 40 = 880 \text{ cm}^2$$

$$\therefore$$
 Total surface area =  $2\pi rh + 2\pi r^2$ 

$$= 2 \times \frac{22}{7} \times \frac{7}{2} \left( \frac{7}{2} + 40 \right) = 957 \text{ cm}^2$$

# 69. (D) Radius of cone = slant height of cone = 15 cm



$$\frac{120^{\circ}}{360^{\circ}} \times 2\pi \, (15) = 2\pi r \, (\text{where is the radius})$$
 of cone)

$$\Rightarrow$$
 r = 5 cm

h = 
$$\sqrt{l^2 - r^2}$$
 =  $\sqrt{(15)^2 - (5)^2}$  =  $\sqrt{200}$   
=  $10\sqrt{2}$ 

$$\therefore \text{ Volume} = \frac{1}{3}\pi r^2 h$$

$$= \frac{1}{3} \times \pi \times 5 \times 5 \times 10\sqrt{2}$$

$$= \left\lceil \frac{\left(250\sqrt{2}\right)\pi}{3} \right\rceil \, cm^3$$

#### 70. (D) Total surface area of B

= total surface area of A + 300% of total surface area of A

= 4 × total surface area of A

Let, radius of A is x and radius of B is y

$$4\pi y^2 = 4 \times 4\pi x^2$$

$$y = 2x$$

Volume of A = 
$$\frac{4}{3}\pi x^3$$

Volume of B = 
$$\frac{4}{3}\pi x^3 = \frac{4}{3}\pi (2x)^3$$

$$= \frac{4}{3}\pi 8x^3$$

Volume percentage of A is less then of volume percentage of B =

$$= \frac{\frac{4}{3}\pi8x^3 - \frac{4}{3}\pi x^3}{\frac{4}{3}\pi8x^3} \times 100$$

$$=\frac{7}{8}\times100=87.5\%$$

$$k = 87.5$$

71. (B) Percentage increase in percent profit = 
$$(24 - 15)/15 \times 100\%$$

Percentage increase in expenditure =  $(100 - 50)/50 \times 100\%$ 

#### 72. (A) Required income

$$= \frac{\text{Expenditure} \times (100 + \text{Profit})\%}{100}$$

$$= 80/100 \times 112 = ₹89.6$$
 crore



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73. (D) Income of the company

in 2014 = 
$$\frac{50 \times 115}{100}$$
 = ₹57.5 crore

in 2015 = 
$$\frac{80 \times 112}{100}$$
 = ₹89.6 crore

in 2016 = 
$$\frac{40 \times 110}{100}$$
 = ₹44 crore

in 2017 = 
$$\frac{75 \times 118}{100}$$
 = ₹88.5 crore

in 2018 = 
$$\frac{100 \times 124}{100}$$
 = ₹124 crore

Hence, income of the company is maximum in the year 2018.

74. (B) Income of company in 2018 = ₹124 crore

Income of company in 2016 = ₹44 crore

Required percentage (more)

$$= \frac{124 - 44}{44} \times 100\% = \frac{80}{44} \times 100\%$$

75. (B) Ratio of per cent profit to expenditure

in 2014 = 
$$\frac{15}{50}$$
 = 0.3

in 2015 = 
$$\frac{12}{80}$$
 = 0.15

in 2016 = 
$$\frac{10}{40}$$
 = 0.25

in 2017 = 
$$\frac{18}{75}$$
 = 0.24

in 2018 = 
$$\frac{24}{100}$$
 = 0.24

### **MEANINGS IN ALPHABETICAL ORDER**

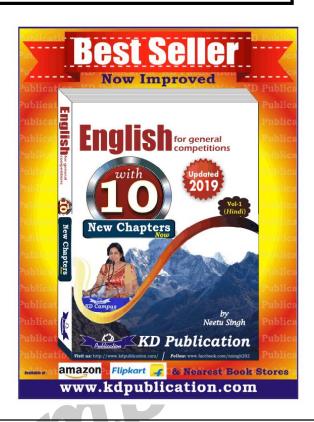
	Word	Meaning in English	Meaning in Hindi			
	Alibi	an excuse intended to avoid blame	बहाना			
Anonymous not nam		not named or identified	गुमनाम			
	Bewilder	to confuse (someone) very much	उलझन में डाल देना			
	Bibliophile	a person who loves or collects books	किताबी कोड़ा			
	Defer	put off, delay	टाल देना			
Despair the f		the feeling of no longer having any hope	मायूसी			
	Dread	a person or thing that causes fear	डरावना			
	Meagre	very small or too small in amount	अल्प			
	Pedophile	a person who is sexually attracted to children	बालकामुक			
	Scanty	very small in size or amount	अल्प			
	Vanity	arrogance	घमंड्			
Xenophile		one attracted to foreign things (such as styles or people)	विदेशी शैली या व्यक्ति की			
			ओर आकर्षण			



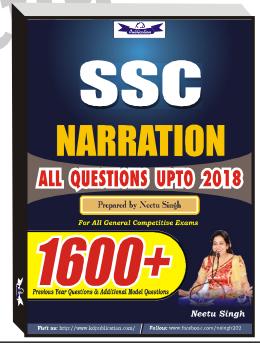
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### SSC MOCK TEST - 218 (ANSWER KEY)

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



- 76. (A) Use 'much' instead of 'many'. 'Many' is used for countable noun while 'Much' is used for uncountable noun.
- 77. (A) If plural noun is used as a singular unit, singular verb is used.
- 86. (D) While comparing things, rather is always followed by 'than'.
- 87. (C) Each is singular, so it will take singular verb.



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