

**SSC MOCK TEST - 7 (SOLUTION)**

1. (B) As Whale comes under Mammal group, in the same way Turtle comes under Reptile.

2. (C)  $16^2 = 256$        $18^2 = 324$   
 $\begin{matrix} 2 & 5 & 6 \\ \swarrow & & \searrow \\ 5 & 2 & 6 \end{matrix}$        $\begin{matrix} 3 & 2 & 4 \\ \swarrow & & \searrow \\ 2 & 3 & 4 \end{matrix}$

3. (C)  $A \xrightarrow{+5} F \xrightarrow{+5} K \xrightarrow{+5} P$   
 $M \xrightarrow{+4} Q \xrightarrow{+4} U \xrightarrow{+4} Y$   
 $V \xrightarrow{+2} X \xrightarrow{+2} Z \xrightarrow{+2} B$

4. (B) As,  $108 \xrightarrow{+4} 27$   
 Same as,  $776 \xrightarrow{+4} 194$

5. (C) As, we get Calcium from Milk, in the same way, we get Protein from Pulses.

6. (B) DCBA HGFE      STUV      WXYZ  
 $\begin{matrix} \uparrow & \uparrow & \uparrow & \uparrow \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \uparrow & \uparrow & \uparrow & \uparrow \end{matrix}$

7. (D) As, ACEG  $\xrightarrow{\text{opposite letters}}$  ZXVT  
 same as, IKMO  $\xrightarrow{\text{opposite letters}}$  RPNL

8. (D) As YAD : NUS  $\rightarrow$  DAY : SUN  
 Same as THGIN : NOON  $\rightarrow$  NIGHT : MOON

9. (D) As, Mouse is food of Cat, in the same way, Fly is food of Spider.

10. (C) Each block is shifting one step in clockwise direction.

11. (C)  $\begin{matrix} F & C & G & J & & D & A & E & H \\ \downarrow -3 & \uparrow +3 & & & & \downarrow -3 & \uparrow +3 & & \\ K & I & M & P & & H & E & I & L \\ \downarrow -2 & \uparrow +3 & & & & \downarrow -3 & \uparrow +3 & & \end{matrix}$

12. (C) Except Press, all others are related to a book.

13. (C) 2187 is not a perfect cube.  
 $(11^3 = 1331, 12^3 = 1768, 17^3 = 4913)$

14. (D) 'S' is a consonant here whereas rest of the options contain only vowels.

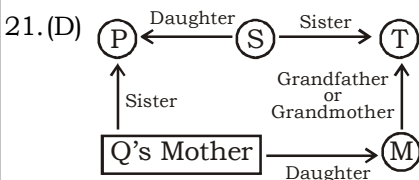
15. (C) 389 is a prime number whereas rest are divisible by 37.

16. (A) Rest are geometrical figure  
 17. (D) 57 is not a prime number.

18. (D)  $17^2 + 7 = 296$        $13^2 + 7 = 176$   
 $11^2 + 7 = 128$        $12^2 + 8 = 152$

19. (B)  $\begin{matrix} 1 & 2 & 12 & 5 \\ A & B & L & E \\ \uparrow & \uparrow & & \end{matrix}$   
 $\therefore$  Letter pair = AB  $\Rightarrow$  One

20. (D) An essential part of given word KNOWLEDGE is **learning**, because by learning any one can get Knowledge.



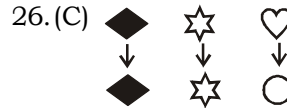
Here sex of M is not known, so, M is either grandfather or grandmother of T

22. (C) c b b g / c b b g / c b b g

23. (D)  $\begin{matrix} 11 & 12 & 17 & 18 & 23 & 24 & 29 & 30 \\ \uparrow +1 & \uparrow +5 & \uparrow +1 & \uparrow +5 & \uparrow +1 & \uparrow +5 & \uparrow +1 & \uparrow \end{matrix}$

24. (B)  $\begin{matrix} 2 & 4 & 2 & 3 & 9 & 3 & 4 & 16 & 4 & 5 & 25 & 5 \\ \times & \times & \times & \times & \times & \times & \times & \times & \times & \times & \times & \times \end{matrix}$

25. (B) P R O N O U N C I A T I O N  
 $\begin{matrix} \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} & \text{---} \\ 1 & & 2 & & & & & & & & & 3 \end{matrix}$



27. (B)

28. (A)

29. (D) Cover is not the part of the page whereas rest are the part of others.

30. (D) As, RED  $\rightarrow 18 \times 5 \times 4 = 360$   
 Same as, GREEN  $\rightarrow 7 \times 18 \times 5 \times 5 \times 14 = 44100$

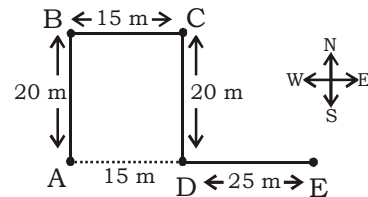
Hence, GREEN can be coded as 44100.

31. (C)  $\Delta = 7$        $\square = 12$

$\Delta - 1 = \circ \circ \Rightarrow 6 = \circ \circ \Rightarrow \circ = 2$

then,  $\Delta + \square + \circ = 7 + 12 + 2 = 21$

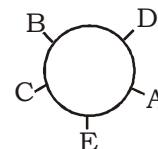
32. (A) Walking diagram of Ahmad is as given below.



Let point A is the starting point and point E is the end point of the path, travelled by Ahmad.

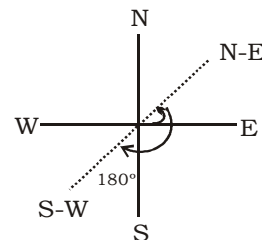
$\therefore$  Distance of Ahmad from his starting point = AD + DE  
 $= BC + DE$       [ $\because AD = BC$ ]  
 $= (15 + 25) \text{ m} = 40 \text{ m}$

33. (C) By given information in sitting arrangement is as follows



Hence, it is clear that B is sitting to the immediate left of C.

34. (D)



It is clear from diagram that now he is facing South-West direction.



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35.(\*)  $a + b \rightarrow a > b$  .....(i)  
 $b + c \rightarrow b > c$  .....(ii)  
 from equation (i) & (ii) we have  
 $a > b > c \Rightarrow a > c \Rightarrow a + c$

**[Consider (b - c) as (b + c)]**

36.(D) **COSMOS**

37.(C) The meaningful order of the given words are as below.

Birth  $\rightarrow$  Education  $\rightarrow$  Marriage  $\rightarrow$  Death  $\rightarrow$  Funeral

38.(D)

39.(C) Given (5 C 4) A (2 B 3) B 6

Now, place the mathematical sign of A, B and C

$$= (5 \times 4) - (2 + 3) + 6$$

$$= 20 - 5 + 6$$

$$= 26 - 5 = 21$$

40.(B) Starting position of hawker = Middle compartment of 17 boggies

$$= \frac{17+1}{2} = \frac{18}{2} = 9\text{th compartment}$$

on next station, he enters the third compartment before the engine.

$\therefore$  New position of hawker = Third compartment next to the engine

Now, distance from his original position =  $= 9 - 3 = 6^{\text{th}}$  compartment.

Hence, hawker is in 6th compartment away from his original position.

41.(\*) From given information, we have

$A > B$  .....(i)

$C > D > E$  .....(ii)

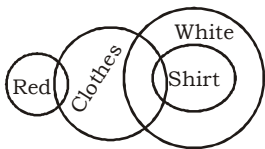
$A > D > B$  .....(iii)

It is clear from (i), (ii) & (iii) that both A and C can be the tallest.

42.(A)

43.(C)

44.(A)



- A  $\checkmark$
- B  $\times$
- C  $\times$
- D  $\times$

45.(B)

46.(B)

47.(C)

48.(B)

49.(D)

50.(D)

51.(C)

$$\sqrt{10 + \sqrt[3]{x}} = 4$$

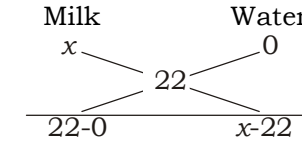
$$\Rightarrow 10 + \sqrt[3]{x} = 4^2 = 16$$

$$\Rightarrow \sqrt[3]{x} = 16 - 10 = 6$$

$$\Rightarrow x = 6^3 = 216$$

52.(B) An irrational number

53.(B) Let price of milk =  $x$  per liter



$$\frac{22}{x-22} = \frac{15}{3}$$

$$15x - 330 = 26$$

$$15x = 356$$

$$x = ₹ 26.40/\text{litre}$$

$$\text{or, Required Rate of milk} = \frac{18 \times 22}{15}$$

$$= ₹ 26.40/\text{litre}$$

54.(D)  $20 \times 15 = 25 \times D_2$

$$D_2 = \frac{20 \times 15}{25} = 12 \text{ days}$$

55.(B) In 1 min i.e. 60 sec. distance travelled by the wheel =  $12 \times 2\pi r$

$\therefore$  In 1 sec distance travelled by the wheel

$$= \frac{12 \times 2\pi r}{60} = \frac{2}{5}\pi r$$

$$\therefore \text{Angle} = \frac{\text{arc}}{\text{radius}} = \frac{\frac{2}{5}\pi r}{r} = \frac{2}{5}\pi$$

56.(A)  $x = 6y$  .....(i)

$$(x + 4) = 4(y + 4); x + 4 = 4y + 16$$

$$6y + 4 = 4y + 16 \text{ [value of } x = 6y]$$

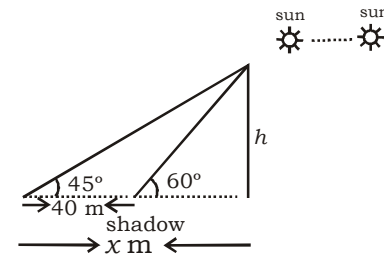
$$2y = 16 - 4; 2y = 12; y = 6 \text{ year}$$

57.(A) Let CP = 100%

After increase it will be =  $100 + x\%$

$$\text{Required percentage} = \left( \frac{x}{100 + x} \right)\%$$

58.(B)



$$\tan 45^\circ = \frac{h}{x}; \frac{1}{1} = \frac{h}{x}$$

$$x = h$$

$$\tan 60^\circ = \frac{h}{x - 40}$$

$$\frac{\sqrt{3}}{1} = \frac{h}{x - 40}$$

$$h = \sqrt{3}x - 40\sqrt{3}$$

$$h = \sqrt{3}h - 40\sqrt{3} \quad (\because x = h)$$

$$h(1 - \sqrt{3}) = -40\sqrt{3}$$

$$h = -\frac{40\sqrt{3}}{1 - \sqrt{3}}$$

or,  $\frac{40\sqrt{3}}{\sqrt{3}-1} \times \frac{\sqrt{3}+1}{\sqrt{3}+1}$

$$= \frac{40\sqrt{3}(\sqrt{3}+1)}{3-1}$$

$$= 20\sqrt{3}(\sqrt{3}+1) \text{ m}$$

$$= 20(3 + \sqrt{3}) \text{ m}$$

59.(C) Given  $m = n^2 - n$

$$m^2 - 2m = (n^2 - n)^2 - 2(n^2 - n)$$

$$= n(n-1)(n^2 - n - 2)$$

$$= (n+1)(n)(n-1)(n-2)$$

It is a product of four consecutive number.

Hence, it is divisible by 24.

60.(A)

	Article		Price
CP	22	↔	1 = 25 (25×1)
SP	25	↔	3 = 66 (22×3)

$$\text{Profit \%} = \frac{66 - 25}{25} \times 100 = \frac{41}{25} \times 100 = 164\%$$

61.(A) Required % =  $\frac{30}{100 - 30} \times 100 = \frac{30}{70} \times 100$   
 $= \frac{300}{70} = 42\frac{6}{7}\%$

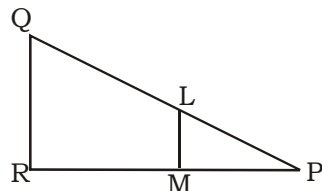
62.(D)

63.(B)  $32 \times \frac{25}{100} = 8$

₹ 8 discount on 1 shirt

So, number of shirt =  $\frac{40}{8} = 5$

64.(B)



$\Delta PQR \sim \Delta MLP$

$$\frac{\text{Area of } \Delta MLP}{\text{Area of } \Delta PQR} = \frac{PL^2}{PQ^2}$$

Let area of  $\Delta MLP = X$ , are of  $\Delta RQP = 3X$

$$\frac{X}{3X} = \frac{PL^2}{PQ^2}; \frac{PL}{PQ} \Rightarrow \frac{1}{\sqrt{3}}$$

$$\Rightarrow \frac{PQ}{PL} = \frac{\sqrt{3}}{1}$$

$$\Rightarrow \frac{PQ - PL}{PL} = \frac{\sqrt{3} - 1}{1}$$

$$\Rightarrow \frac{QL}{PL} = \frac{\sqrt{3} - 1}{1}$$

$$\Rightarrow \frac{PL}{QL} = \frac{1}{\sqrt{3} - 1}$$

65.(A) Let fraction be  $\frac{x}{y}$

$$\text{New} = \frac{x \times \frac{75}{100}}{y \times \frac{125}{100}} = \frac{3x}{5y}$$

$$= \frac{x}{y} - \frac{3x}{5y} = \frac{5x - 3x}{5y} = \frac{2x}{5y}$$

$$\% \text{ decrease} = \frac{\frac{2x}{5y}}{\frac{x}{y}} \times 100 = \frac{2x}{5y} \times \frac{y}{x} \times 100$$

$$= 40\%$$

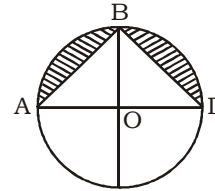
66.(A) Ratio 4 : 3 : 1

$$3 \xrightarrow{\times 22.50} 67.50$$

$$\text{then, } 4 + 3 + 1 \Rightarrow 8 \xrightarrow{\times 22.50} 180$$

So, cost of book = ₹ 180

67.(C)



Radius of circle =  $\frac{3a}{2}$

$$\text{area of semi-circle} = \frac{\pi}{2} \times \left(\frac{3a}{2}\right)^2 = \frac{9\pi}{8} a^2$$

$$\text{Area of } \Delta ABD = \frac{1}{2} 3a \times \frac{3}{2} a = \frac{9}{4} a^2$$

$$\text{Area of the shaded part} = \frac{9\pi}{8} a^2 - \frac{9}{4} a^2$$

$$= \frac{9}{4} a^2 \left(\frac{\pi}{2} - 1\right) \text{ sq unit}$$

68. (B)  $l \cos^2 \theta + m \sin^2 \theta = \frac{\cos^2 \theta}{\cot^2 \theta} \left( \frac{1 + \sin^2 \theta}{\sin^2 \theta} \right)$

$$l \cos^2 \theta + m(1 - \cos^2 \theta) = \sin^2 \theta \left( \frac{1 + \sin^2 \theta}{\sin^2 \theta} \right)$$

$$l \cos^2 \theta + m - m \cos^2 \theta = 1 + 1 - \cos^2 \theta$$

$$l \cos^2 \theta - m \cos^2 \theta + \cos^2 \theta = 2 - m$$

$$\cos^2 \theta (l - m + 1) = 2 - m$$

$$\cos^2 \theta = \frac{2 - m}{l - m + 1}$$

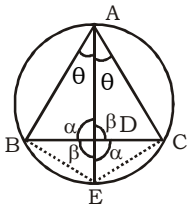
$$\sec^2 \theta = \frac{l - m + 1}{2 - m}$$

$$\tan^2 \theta = \frac{l - 1}{2 - m}; \quad [\sec^2 \theta = \tan^2 \theta + 1]$$

$$\tan \theta = \sqrt{\frac{l - 1}{2 - m}}$$

69. (B) Original rate of income tax =  $\frac{1}{19 + 1} \times 100$   
= 5%

70. (A)



AD is the bisector of  $\angle BAC$

$\angle EBC = \theta$  {angle in the same segment of a circle}

$\angle BCE = \theta$  {angle in the same segment of a circle}

$\triangle ABD \sim \triangle DCE$  and  $\triangle ADC \sim \triangle BDE$

$$\frac{AB}{EC} = \frac{BD}{DE} \Rightarrow \frac{AB}{BD} = \frac{EC}{DE} \quad \dots(i)$$

$$\frac{AC}{BE} = \frac{DC}{DE} \Rightarrow \frac{AC}{DC} = \frac{BE}{DE} \quad \dots(ii)$$

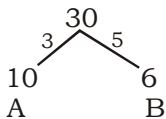
EC = BE [equal angle form equal side]

From (i) and (ii)

$$\frac{AB}{BD} = \frac{AC}{DC} \Rightarrow \frac{AB}{AC} = \frac{BD}{DC}$$

So, AB : AC = BD : DC

71. (D)



work done by A + B in 3 days =  $3 \times (3 + 5)$   
= 24

Remaining work =  $30 - 24 = 6$

$\therefore$  C does 6 work in 2 days

$\therefore$  C does 30 work =  $\frac{2}{6} \times 30 = 10$  days

72. (B)  $C = 2\pi r$ ,  $A = \pi r^2$   
 $C \times r = 2\pi r^2$  [ $\pi r^2 = A$ ]  
 $C \times r = 2 \times A$

$$\frac{C \times r}{2} = A; \quad [r = \frac{C}{2\pi}]$$

$$\frac{C \times C}{2 \times 2\pi} = A$$

$$A = \frac{C^2}{4\pi}$$

73. (C)  $\frac{1}{3} \pi r^2 h = \frac{4}{3} \pi R^3$   
 $3.6 \times 3.6 \times 14.4 = 4 \times R^3$   
 $R^3 = 3.6 \times 3.6 \times 3.6$   
 $R = 3.6$  cm

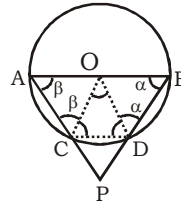
74. (C) C.P of 50 gram cashewnut = ₹ 25

$$\left[ \frac{500}{1000} \times 50 \right]$$

S. P of 50 gram cashewnut = ₹ 20

$$\text{Loss \%} = \frac{5}{25} \times 100 = 20\%$$

75. (C)



OC = OD = CD

So,  $\triangle COD$  is equilateral

$\angle COD = 60^\circ$

In,  $\triangle BOD$ ;

OB = OD

$\angle ODB = \angle OBD$

In,  $\triangle AOC$ ;

AO = OC

$\angle ACO = \angle CAO$

$\angle AOC = 180 - 2\beta$

$\angle BOD = 180 - 2\alpha$

AOB is collinear;

$\angle AOC + \angle COD + \angle DOB = 180^\circ$

$180 - 2\beta + 60^\circ + 180 - 2\alpha = 180^\circ$

$2\alpha + 2\beta = 120$

$\alpha + \beta = 120$

In,  $\triangle ABP$ ;

$\angle PAB + \angle PBA + \angle APB = 180^\circ$

$\beta + \alpha + \angle APB = 180^\circ$

$\angle APB = 180 - (\alpha + \beta)$

=  $180 - 120^\circ$

So,  $\angle APB = 60^\circ$

76. (B)  $\frac{3}{4} - \frac{1}{2} = \frac{3-2}{4} = \frac{1}{4}$

$\frac{1}{4}$  part = 48 litres

1 part =  $48 \times 4 = 192$  litres

77.(A)  $7 + 5 = 12 \xrightarrow{\times 15} 180$   
Pencils =  $5 \xrightarrow{\times 15} 75$

28% of pencils =  $75 \times \frac{28}{100} = 21$

78. (B) A : B : C =  $12 \times 2000 : 4 \times 2500 : 8 \times 1500$   
Share of A : B : C =  $12 : 5 : 6 \Rightarrow 23 \xrightarrow{\times 100} 2300$   
C's share =  $6 \times 100 = ₹ 600$

79.(A) Area of such road =  $x(l + b - x)$   
Where x is width of road  
=  $10(80 + 60 - 10)$   
=  $1300 \text{ sq m}$

80.(B) Annual payment =  $\frac{100P}{100T + \frac{RT(T-1)}{2}}$   
$$= \frac{100 \times 848}{100 \times 8 + \frac{8 \times 8(7)}{2}}$$
$$= \frac{84800}{800 + 32 \times 7}$$
$$= \frac{84800}{1024}$$
$$= ₹ 82.8125$$

81.(D) Required distance =  $(T_2 - T_1) \times \frac{ab}{a-b}$   
$$= \frac{1}{2} \times \frac{120 \times 150}{30}$$
$$= 300 \text{ km}$$

82.(C)  $a + \frac{1}{a} = \sqrt{5}$

$$a^3 + \frac{1}{a^3} = (\sqrt{5})^3 - 3\sqrt{5}$$
$$= 5\sqrt{5} - 3\sqrt{5} = 2\sqrt{5}$$

83.(B) Net effect on volume  
$$= [2 \times (-4) + 2 + \frac{(-4)^2 + 2 \times 2(-4)}{100} + \frac{(-4)^2 \times 2}{100^2}]$$
$$= [-8 + 2 + \frac{16 + (-16)}{100} + \frac{32}{100^2}] \%$$
$$= [-6 + 0 + 0.0032] \%$$
$$= -5.99\% \text{ or decrease in value} = 5.99\%$$

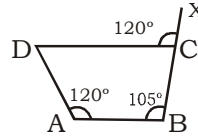
84.(D)  $1728 = 1331 \left(1 + \frac{r}{100}\right)^3$   
$$\left(\frac{12}{11}\right)^3 = \left(1 + \frac{r}{100}\right)^3$$

$$1 + \frac{r}{100} = \frac{12}{11}$$

$$\frac{r}{100} = \frac{1}{11}$$

$$r = \frac{100}{11} = 9.09\%$$

85.(D)



$\angle ADC = 360 - (120 + 105 + 60) = 75^\circ$

86.(B) Let LCM of 65 & 40 = 520

Let the distance be 520 km

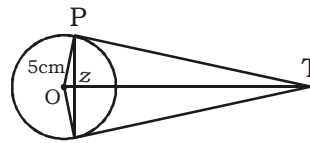
time taken without stoppage =  $\frac{520}{65} = 8 \text{ h}$

time taken with stoppage =  $\frac{520}{40} = 13 \text{ h}$

train takes 5 hour more in 13 hours.

So,  $\frac{5 \times 60}{13} = 23 \frac{1}{13} \text{ min/hour}$

87.(C)



$\triangle POZ \sim \triangle POT$

So,  $\frac{TP}{4} = \frac{5}{3}$

$$TP = \frac{20}{3} \text{ cm}$$

88. (B) For the expression to hold true x and y should both be positive.

89.(A) 
$$\frac{P\left(1 + \frac{r}{100}\right)^2}{P\left(1 + \frac{r}{100}\right)^3} = \frac{2420}{2662} = \frac{10}{11}$$

$$1 + \frac{r}{100} = \frac{11}{10}$$

$$\frac{r}{100} = \frac{11}{10} - 1 = \frac{1}{10}$$
$$r = 10\%$$

90.(D) 
$$\sin^6 60^\circ + \cos^6 60^\circ = \left(\frac{\sqrt{3}}{2}\right)^6 + \left(\frac{1}{2}\right)^6$$

$$= \frac{27}{64} + \frac{1}{64} = \frac{27+1}{64} = \frac{28}{64} = \frac{7}{16}$$

91.(D) Let CP of each article be ₹ 1  
then CP of 66 articles is ₹ 66  
Then his profit = ₹ 22

Profit percentage =  $\frac{22}{66} \times 100 = 33 \frac{1}{3} \%$

92.(D) Let the distance  $x$  km.

$$\frac{x}{7-3} - \frac{x}{7+3} = 6$$

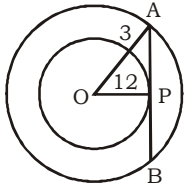
$$\frac{x}{4} - \frac{x}{10} = 6$$

$$\frac{5x-2x}{20} = 6$$

$$3x = 6 \times 20$$

$$x = 40 \text{ km}$$

93.(B)



$$AP = \sqrt{13^2 - 12^2} = \sqrt{25} = 5 \text{ cm}$$

$$\text{Chord AB} = 2 \times 5 = 10 \text{ cm}$$

$$\text{length of } \frac{4}{5}^{\text{th}} \text{ of chord} = \frac{4}{5} \times 10 = 8 \text{ cm}$$

94.(C)  $\sin^2 \theta + \cos^2 \theta + \sec^2 \theta + \operatorname{cosec}^2 \theta + \cot^2 \theta + \tan^2 \theta$   
 $= 1 + \sec^2 \theta - \tan^2 \theta + \operatorname{cosec}^2 \theta - \cot^2 \theta + 2(\tan^2 \theta + \cot^2 \theta)$   
 $= 3 + 2 [(\tan \theta - \cot \theta)^2 + 2]$   
 $= 7 + 2 (\tan \theta - \cot \theta)^2$

$$[\because (\tan \theta - \cot \theta)^2 \geq 0]$$

So, the minimum value is 7.

95.(C) A =  $6x^3 + 60x^2 + 150x$   
 $= 6x \times (x^2 + 10x + 25)$   
 $= 6x \times (x + 5)^2$

B =  $3x^4 + 12x^3 - 15x^2$   
 $= 3x^2 (x^2 + 4x - 5)$   
 $= 3x^2 (x + 5)^2 (x - 1)$

LCM of A & B  
 $= 6x^2 (x + 5)^2 (x - 1)$

96.(A) English + Chemistry + Physics  
 $= 27 + 23 + 17 = 67$

Required number = 67% of 1800  
 $= 1206$

97.(B) Ratio of teachers of Mathematics and Hindi

$$= 1800 \times \frac{13}{100} : 1800 \times \frac{8}{100}$$

$$= 13 : 8$$

98.(D) Number of male teachers.

$$= 1800 \times \frac{12}{100} \times \frac{20}{100} + 1800 \times \frac{8}{100} \times \frac{60}{100}$$

$$= \frac{18 \times 12}{5} + \frac{18 \times 24}{5}$$

$$= \frac{216 + 432}{5} = \frac{648}{5}$$

$$= 129.6$$

$$= 130 \text{ (approx.)}$$

99.(C) Required percent =  $\frac{12-8}{8} \times 100$

$$= \frac{4}{8} \times 100 = 50\%$$

100.(A) Required number

$$1800 \times \frac{13}{100} \times \frac{150}{100} + 1800 \times \frac{8}{100} \times \frac{75}{100}$$

$$= \frac{18 \times 13 \times 3}{2} + \frac{18 \times 8 \times 3}{4}$$

$$= 9 \times 13 \times 3 + 108$$

$$= 459$$

101.(D) GST stands for Goods and Services Tax.

It is a comprehensive Indirect tax levied on manufacture, sale and consumption of goods as well as services at national level. It will replace all indirect taxes levied on goods and services by the Centre and State Government. Features of GST are –

- Because of its transparent character, this tax would be easier to administer.
- By amalgamating a large number of central and state taxes into a single tax, it would mitigate cascading and pave the way for a common national market.
- Indian products will become competitive in the domestic and International markets.
- Reduction in overall tax burden on goods i.e. 25%-30%

102.(A) 'CROWDING OUT' is an economic concept where increased public sector spending replaces or drives down private sector spending. It refers to the situation when government must finance its spending with taxes and / or with deficit spending leaving businesses with less money and effectively 'crowding them out'

103.(C) Tax Expenditure – are revenue losses attributable to tax provisions that often result from the use of the tax system to promote social goals without incurring direct expenditure.

Gift tax – A federal tax applied to an individual giving anything of value to another person.

Tax imposed on advertisement – is collected by the central government and then it is transferred to the state government.

Stamp duty – is a tax that is levied on documents such as cheques, receipts etc.



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| <p>104. (A) Chelliah Committee was set up in August 1991 and headed by Dr. Raja Chelliah. The Committee pointed out that the indirect taxes at the Central level should be broadly neutral in relation to production and consumption of goods and will cover commodities and services. So, VAT (Value Added Tax) system will cover services and commodities.</p> <p>105. (D) Proportional taxes apply the same tax rate to any income level or for any size tax base. Many state income taxes and almost all sales taxes are proportional taxes.</p> <p>107. (D) Capitals of Vijaynagar dynasty are Anegondi, Chandragiri, Vellore, Penukonda.</p> <p>109. (C) Railways were first introduced to India in 1853 from Bombay to Thane. In 1951 the system were nationalized as one unit. In 1905, Railway Board was constituted but the powers were vested under Lord Curzon. For the first time in history, the Railways began to make profit in his reign.</p> <p>110. (A) The Swadeshi movement was started to oppose the British decision for the partition of Bengal. The formal proclamation of Swadeshi movement was made on August 7, 1905 at Calcutta townhall and the famous boycott resolution was passed. Boycott was first suggested by Krishan Kumar Mitra in Sanjivani in 1905. Various students and women participated in the movement but not the farmers.</p> <p>111. (B) Vasco da Gama was the first person to sail directly from Europe to India, around the cape of Good hope. In 1502, King Manuel once again sent Vasco da Gama to India to further secure Portugal's dominance in the region.</p> <p>112. (D) Spam is most often considered electronic junk mail or junk newsgroup postings. It is also known as unsolicited email. So, it is related with computer.</p> <p>113. (A) An input device is a peripheral (piece of computer hardware equipment) used to provide data and control signals to an information processing system such as a computer or information appliance. Examples are keyboards, scanner, digital cameras and Joysticks.</p> | <p>115. (B) Eucalyptus is a diverse genus of flowering trees and shrubs. The two common hazards of eucalyptus species are fire and its falling branches. Eucalyptus oil is highly inflammable (ignited trees have been known to explode). Bushfires can travel easily through the oil-rich air of the tree crowns and unexpectedly some trees may even drop branches, the weight of eucalyptus wood is high because of its density and high resin content.</p> <p>116. (C) Impact of Global warming are -<br/>         (i) Accelerating sea level rise and increased coastal flooding.<br/>         (ii) Wild fires are increasing<br/>         (iii) More frequent and intense heat waves<br/>         (iv) National landmarks at risk<br/>         (v) Costly and growing health Impacts<br/>         (vi) Increase in extreme weather events.<br/>         (vii) Glaciers are melting<br/>         (viii) Changing seasons<br/>         (ix) Disruptions to food supplies etc.</p> <p>117. (C) Three gases are responsible for causing Acid rain i.e - carbon dioxide that dissolves in rain water produces carbonic acid. Sulphur dioxide dissolves in rain water produces Sulphuric acid which is highly corrosive and causes abbrasive effects to metals and rocks and at last NO<sub>2</sub> forms Nitric acid and Nitrous acid.</p> <p>118. (B) Relative humidity is a function of both - how much moisture the air contains and the temperature. If you raise the temperature while keeping moisture content constant the relative humidity decreases.</p> <p>119. (B) The high tide and low tide are caused by the gravitational forces between the earth and the moon. But sun does not cause any tide because the gravitational pull of the sun on the earth is larger than that of the moon. Due to the much greater distance the force changes very little from one end of the earth to the other.</p> <p>120. (D) Residual mountains are formed due to denudation and erosion by which high plateaus are gradually shaped into peaks and ridges. Examples are Alpine-Himalayan system, the Catskill range in the southern New York state, The Grand Canyon is Arizona, USA is also the result of erosion by Colorado.</p> |
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| <p>122. (C) Dormant Volcano is one that has not erupted recently but is expected to do so. Examples of Dormant volcanoes are Lake Barrine in Australia, Mount Kilimanjaro in Africa, Salina in Sicily, Italy etc.</p> <p>123. (A) Koraput is a town and a Notified Area Council in Koraput district in Odisha. HAL factory (Hindustan Aeronautics Limited, a defence enterprise of the Government of India) is only 15 km from Koraput town. This HAL factory makes military aircraft engines for MIG and expanding for Sukhoi assembly line. The HAL factory and township is surrounded by hills and forest.</p> <p>125. (C) The Tenth Schedule known as the Anti-Defection Act was included in the Constitution in 1985 by Rajiv Gandhi ministry and sets the provisions for disqualification of elected members on the grounds of defection to another political party. The law was added by the 52<sup>nd</sup> Amendment Act, 1985.</p> <p>126. (A) Central Vigilance Commission (CVC) was established in 1964, as an apex body for exercising general superintendence and control over vigilance administration. The term of office of the Central vigilance Commissioner would be four years from the date on which they enter their office or till they attain the age of 65 years, whichever is earlier.</p> <p>127. (B) Article 317 of the Constitution deals with the removal and suspension of a member of Public Service Commission and can be removed from his office by the order of President on the ground of misbehavior.</p> <p>128. (D) The Directive Principles lay down various tenets of a welfare state and give directives to the state and government machinery. But they are not enforceable, by the law.</p> <p>130. (A) Chloroplasts are known as the kitchen of the cell because sunlight is absorbed by them and converted into energy and helps them in making food. So, chloroplasts are the organelles where plants prepare their own food.</p> <p>131. (B) The Capsaicin (Capsaicinoids) are found in chillies bind to a receptor in the mucous membrane of the mouth when ingested. This is the receptor associated with heat and physical abrasion and hence produces a burning sensation.</p> | <p>133. (C) Polio or Poliomyelitis is a highly contagious viral infection that can lead to paralysis, breathing problems or even death.</p> <p>134. (B) Turmeric is the rhizome on underground stem of a ginger like plant. The whole turmeric is the tuberous rhizome with a rough-segmented skin.</p> <p>135. (B) Subsidy is the benefit given by the government to groups or individuals usually in the form of a cash payment or tax reduction. It is usually given to remove some type of burden and is often considered to be in the interest of the public. So, it is Revenue expenditure.</p> <p>136. (B) GNP quantifies the size of a country's economy factoring in both what is produced within its border and what is generated by its citizens abroad.<br/> <math display="block">\text{GNP} = \text{GDP} + \text{Net income inflow from abroad} - \text{Net income outflow to foreign countries.}</math></p> <p>138. (C) Indian Finance Ministry has the authority to issue one rupee note. So on behalf of Indian Finance Ministry, Secretary of Finance signed on one rupee note whereas other higher value denomination notes are signed by RBI Governor.</p> <p>139. (D) The troposphere is the lowest layer of Earth's atmosphere and site of all weather on Earth. It is bounded on the top by a layer of air called the tropopause which separates the troposphere from the stratosphere.</p> <p>140. (B) Diphtheria is an acute and upper respiratory tract illness and infectious disease caused by the bacteria corynebacterium Diphtheriae. It is spread by direct physical contact or breathing the aerosolized secretions of infected individuals.</p> <p>146. (B) Charle's law is also known as the law of volumes. It is an experimental gas law which describes how gases tend to expand when heated.<br/> <math display="block">V \propto T</math><br/> or, <math display="block">\frac{V}{T} = K</math><br/> Where, V is the volume of the gas<br/> T is the temperature of the gas (measured in Kelvin)<br/> K is a constant</p> |
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**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Acquire	to gain by own effort	हासिल करना
Antipathy	a strong feeling of dislike	न पसंद करना
Borough	part of large city that has its own government	शहर जो संसद में अपना प्रतिनिधित्व न भेजे
Cautious	careful	सावधान होना
Churlish	not polite	रूखे व्यवहार वाला
Concubine	one who is in a living relationship before marriage	उपपत्ति
Condone	to forgive	माफ करना
Dawn	to begin to come to light as the Sun rises	उषा काल
Enforce	to make sure that people do what is required	लागू करना
Exodus	a situation in which many people leave a place at the same time	निर्गमन
Feign	to tell a lie	झूठ बोलना
Flatter	To praise in a way that is not sincere	झूठी तारीफ करना
Fondness	tender affection	लगाव
Get over	to recover	उभर पाना
Get through	to reach destination	पहुँचना
Get up	to arise from bed	जगना
Gigantic	extremely large	विशाल
Get down	to resume work	कार्य में फिर से व्यस्त होना
Hypocrite	a person who puts on a false appearance	धूर्त
Influx	a situation in which many people arrive	भारी संख्या में आना
Malingering	to pretend to be sick to avoid doing work	बिमारी का बहाना करना
Nasty	very unpleasant to see	घृणास्पद
Perilous	full of danger	खतरों से भरा हुआ
Perseverance	the quality that allows someone to continue trying to do even though it is difficult	धीरज के साथ लगे रहना (किसी कार्य में)
Postnatal	relating to period of time following the birth of a child	प्रसोवत्तर
Precarious	not safe	असुरक्षित।
Prelude	definition	परिभाषा
Prohibit	to say that something is not allowed	रोक लगाना
Promulgate	to make known to many people	लागू करना
Reminiscences	Past experience	पुरानी यादें
Restoration	the act of bringing back something that existed before	पुनःस्थापन
Rigid	not easily changed	ठोस/दृढ़
Sexagenarian	a person who is between 60 & 69	60 से 69 साल के बीच का व्यक्ति
Sextuplet	six babies born at a same time	छः बच्चों का एक साथ प्रजनन
Slough	a place of deep mud	दलदल
Sought	past participle of seek (to search for)	ढूँढना
Sprawling	spreading in all direction	चारों ओर फैला हुआ
To break down	stopped functioning	कार्य बाधित होना
To smell a rat	to suspect	संदेह करना
Trivial	not important	जो महत्त्वपूर्ण न हों
Truant	a student/person misses school/office without permission	बिना आज्ञा के स्कूल अथवा कार्य से गायब रहना



# K.D Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

## SSC MOCK TEST - 7 (ANSWER KEY)

- |         |         |         |          |          |          |          |          |
|---------|---------|---------|----------|----------|----------|----------|----------|
| 1. (B)  | 26. (C) | 51. (C) | 76. (B)  | 101. (D) | 126. (A) | 151. (B) | 176. (A) |
| 2. (C)  | 27. (B) | 52. (B) | 77. (A)  | 102. (A) | 127. (B) | 152. (B) | 177. (B) |
| 3. (C)  | 28. (A) | 53. (B) | 78. (B)  | 103. (C) | 128. (D) | 153. (D) | 178. (A) |
| 4. (B)  | 29. (D) | 54. (D) | 79. (A)  | 104. (A) | 129. (A) | 154. (B) | 179. (A) |
| 5. (C)  | 30. (D) | 55. (B) | 80. (B)  | 105. (D) | 130. (A) | 155. (C) | 180. (C) |
| 6. (B)  | 31. (C) | 56. (A) | 81. (D)  | 106. (A) | 131. (B) | 156. (D) | 181. (C) |
| 7. (D)  | 32. (A) | 57. (A) | 82. (C)  | 107. (D) | 132. (B) | 157. (D) | 182. (B) |
| 8. (D)  | 33. (C) | 58. (B) | 83. (B)  | 108. (C) | 133. (C) | 158. (A) | 183. (B) |
| 9. (D)  | 34. (D) | 59. (C) | 84. (D)  | 109. (C) | 134. (B) | 159. (C) | 184. (B) |
| 10. (C) | 35. (*) | 60. (A) | 85. (D)  | 110. (A) | 135. (B) | 160. (C) | 185. (A) |
| 11. (C) | 36. (D) | 61. (A) | 86. (B)  | 111. (B) | 136. (B) | 161. (B) | 186. (C) |
| 12. (C) | 37. (C) | 62. (D) | 87. (C)  | 112. (D) | 137. (C) | 162. (C) | 187. (D) |
| 13. (C) | 38. (D) | 63. (B) | 88. (B)  | 113. (A) | 138. (C) | 163. (C) | 188. (A) |
| 14. (D) | 39. (C) | 64. (B) | 89. (A)  | 114. (D) | 139. (D) | 164. (B) | 189. (B) |
| 15. (C) | 40. (B) | 65. (A) | 90. (D)  | 115. (B) | 140. (B) | 165. (C) | 190. (D) |
| 16. (A) | 41. (*) | 66. (A) | 91. (D)  | 116. (C) | 141. (C) | 166. (D) | 191. (D) |
| 17. (D) | 42. (A) | 67. (C) | 92. (D)  | 117. (C) | 142. (A) | 167. (A) | 192. (A) |
| 18. (D) | 43. (C) | 68. (B) | 93. (B)  | 118. (B) | 143. (B) | 168. (D) | 193. (B) |
| 19. (B) | 44. (A) | 69. (B) | 94. (C)  | 119. (B) | 144. (B) | 169. (B) | 194. (A) |
| 20. (D) | 45. (B) | 70. (A) | 95. (C)  | 120. (D) | 145. (D) | 170. (D) | 195. (A) |
| 21. (D) | 46. (B) | 71. (D) | 96. (A)  | 121. (A) | 146. (B) | 171. (B) | 196. (A) |
| 22. (C) | 47. (C) | 72. (B) | 97. (B)  | 122. (C) | 147. (C) | 172. (B) | 197. (C) |
| 23. (D) | 48. (B) | 73. (C) | 98. (D)  | 123. (A) | 148. (B) | 173. (A) | 198. (A) |
| 24. (B) | 49. (D) | 74. (C) | 99. (C)  | 124. (D) | 149. (B) | 174. (C) | 199. (A) |
| 25. (B) | 50. (D) | 75. (C) | 100. (A) | 125. (C) | 150. (D) | 175. (A) | 200. (A) |

151. (B); Use 'from' instead of 'for'. 'Prohibit' takes preposition 'from'.
152. (B); Change 'news' into 'new'
153. (D);
154. (B); Use 'to' instead of 'with'. Averse is followed by 'to'.
155. (C); As the sentence is in past tense, use 'had' instead of 'has'.
157. (D); 'Ride high horse' means 'to be very arrogant'.
158. (A); 'Infested' is followed by 'with'.
159. (C); 'Stand by' means 'to support'.
160. (C); 'Get over' means 'to overcome'.
161. (B); Please read 'fingure' as 'figure'.
- (A) 'To cut a sorry figure' means 'To leave poor impression'.
- (B) 'To smell a rat' means 'To suspect'.
- (C) 'To turn a new leaf' means 'To change for better'.
- (D) 'To blow hot and cold' means 'To change stand'.

190. (D); 'A clarion call' means 'A strong request for a people to do something' and it can be considered as 'To make a big call'.

### Correction of Mock Test-6

58. (B) Solution given was correct.
66. (A) Unit digit of  $3^{24}$  is 1, unit digit of  $8^{57} = 8$ , Unit digit of  $4^{13} = 4$ , unit digit of  $7^{68} = 1$   
Thus  $1 \times 8 + 4 \times 1 + 4 + 8 = 24$   
Unit digit = 4
74. (D)  $\frac{r_1}{r_2} = \frac{2}{1}$  (given)  
Ratio of Areas =  $\frac{\pi r_1^2}{\pi r_2^2} = \left(\frac{2}{1}\right)^2 = 4 : 1$   
 $\therefore$  Ratio of Time = 1 : 4
80. (C) Solution given was correct.
97. (C) Solution given was correct.
196. (C)      197. (A)      198. (C)

**Note:- If you face any problem regarding result or marks scored, please contact 9313111777**

**Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003**