## SSC MOCK TEST - 359 (SOLUTION)

1. (D) As,


Similarly,

2. (C) Human take Oxygen, while Tree take Carbon dioxide.
3. (D) 'Henry', 'Siemen', Heartz are Measuring unit of Inductance, Conductance and Frequency respectively, while Resistance is a electrical parameter whose measuring unit is ohm.
4. (A) $\left(\mathrm{A} \mathrm{)} 7 \rightarrow 7^{2} \rightarrow 49=4+9=13 \neq 15\right.$
(B) $8 \rightarrow 8^{2} \rightarrow 64=6+4=10$
(C) $9 \rightarrow 9^{2} \rightarrow 81=8+1=9$
(D) $10 \rightarrow 10^{2} \rightarrow 100=1+0+0=1$
5. (D) As,
$\mathrm{G}_{7}-\mathrm{Consonant}_{\times 2}$
$\mathrm{R}_{18} \xrightarrow{\text { Consonant }} \times 2$
$\mathrm{A}_{1}--\frac{\text { Vowel }}{\times 3}-\ldots 3$
$\mathrm{D}_{4}--\frac{\text { Consonant }}{\times 2} \longrightarrow \mathbf{C}$
$\mathrm{U}_{21}--\frac{\text { Vowel }}{\times 3} \mathrm{C}$
$\mathrm{A}_{1}--\frac{\mathrm{V} \text { owel }}{\times 3} \mathrm{C}-\longrightarrow 3$
Similarly,
$\mathrm{T}_{20}-\frac{\text { Consonant }}{\times 2} \mathbf{2} \longrightarrow 40$


6. (C)

7. (D)

8. (C) ${ }_{-} \mathrm{K}_{-}$
$\mathrm{M}>\mathrm{T}>\mathrm{K}$
From equation (i) and (ii),
M > T > K > _ > _
Hence, three students are smaller than T .

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9. (A) As, $(26-19)^{2}=49$

Similarly, $(25-17)^{2}=64$

11. (A)
12. (C) In first row,
$(13+12)+(13+12)^{2}=650$

## In second row,

$(15+16)+(15+16)^{2}=992$

## In third row,

$(8+9)+(8+9)^{2}=\mathbf{3 0 6}$
13. (B) $39 \div 3 \times 13+26-13=2$

After changing $\div$ and - ,
$39-3 \times 13+26 \div 13=2$
$39-39+2=2$
$2=2$
14. (B) 4. Nomination $\rightarrow$ 5. Campaign $\rightarrow 1$. Polling $\rightarrow 3$. Result $\rightarrow 2$. Sworn
15. (B) Let the present age of son be $x$ years.

Father's age $=2 \mathrm{x}$ years
ATQ,
$(\mathrm{x}-10) \times 3=2 \mathrm{x}-10$
$3 \mathrm{x}-30=2 \mathrm{x}-10$
$x=20$ years
$\therefore$ Present age of son $=20$ years
16. (B) Let at $6: x$ O'clock will the hand of a clock be at right angle.
$x \times \frac{11}{2}-6 \times 30=90$
$\frac{11 x}{2}=90+180$
$\frac{11 x}{2}=270$
$x=\frac{540}{11}=49 \frac{1}{11}$ minute
Hence at $6: 49 \frac{1}{11}$ O'clock will the hand of clock be at right angle.
17. (C)

I. False
II. False
III. True

Hence, only conclusion III follows.
18. (B) 19. (A)
20. (C)


Hence, Mahira is the cousin of those girls.
21. (B) In 100 years there are 5 odd day's

Last day of first century is Friday.
In 200 years there are $=5 \times 2=\frac{10}{7}$ (3 odd days)
Last day of $2^{\text {nd }}$ century is Wednesday.
In 300 years there are $=5 \times 3=\frac{15}{7}$ ( 1 odd days)
Last day of $3^{\text {rd }}$ century is Monday.
In 400 years there are $=0$ odd days.
$\therefore$ Last day of $4^{\text {th }}$ century is Sunday. This cycle is repeated.
Last day of century can not be, Tuesday, Thursday and Saturday.
22. (B) As,

| And, |  |  | L | O | V | E |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | $>$ | $\&$ | $\$$ | $*$ |
| Similarly, | $\mathbf{S}$ | $\mathbf{E}$ | $\mathbf{L}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{M}$ |
|  | ? | $*$ | $>$ | $\wedge$ | \& | a |

23. (B)
24. (B)
25. (A)
26. (B) Amazon is the greatest river in the world by so many measures; the volume of water it carries to the sea (approximately $20 \%$ of all the freshwater discharge into the oceans), the area of land that drains into it, and its length and width. It is one of the longest rivers in the world.
27. (A) BRICS is the acronym for an association of five major emerging national economies: Brazil, Russia, India, China and South Africa. Originally the first four were grouped as "BRIC", before the induction of South Africa in 2010. The BRICS members are all leading developing or newly industrialized countries.
28. (C) "Public interest Litigation", in simple words, means litigation filed in a court of law, for the protection of "Public Interest", such as Pollution, Terrorism, Road safety, Constructional hazards etc. Any matter where the interest of public at large is affected can be redressed by filing a Public Interest Litigation in a court of law.
29. (B) Human Rights Day is observed every year on 10 December. It commemorates the day on which, the United Nations General Assembly adopted the Universal Declaration of Human Rights. In 1950, the Assembly passed resolution 423 (V), inviting all States and interested organizations to observe 10th December of each year as Human Rights Day.
30. (D) Sankalp is a pilot project, launched by the Employees' State Insurance Corporation (ESIC) in collaboration with the Hindustan Latex Family Planning Promotion Trust, to prevent fresh HIV positive cases among members of the ESIC in the State through awareness camps.
31. (B) Mixed melting point is considered to be the best criteria for purity of a substance. The purified sample is mixed with a small quantity of pure compound and melting point of mixture is determined. If melting point of mixture is same as that of the pure compound, the sample compound is pure, otherwise it requires further purification.

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34. (A) Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object and thus in contrast to on site observation. Remote sensing is used in numerous fields, including geography and most Earth Science disciplines.
35. (A) The Antikythera mechanism is an ancient analogue computer and orrery used to predict astronomical positions and eclipses for calendrical and astrological purposes, as well as the Olympiads, the cycles of the ancient Olympic Games.
36. (B) Alauddin Khilji was a militarist and imperialist to the core. He was very ambitious. Alauddin, whose original name was Ali Gurshap, assumed the title Sikandar-i-Sani (Alexander the Second) and proclaimed Delhi as Dar-ul-Khilafa (Seat of the Caliphate).
37. (A) Kaziranga National Park is the name to exemplify the most popular conservation efforts to save the endangered species like one-horned rhinoceros in India. Located in the Golaghat and Nagaon district of Assam, this most notable wildlife sanctuary is being declared as a World Heritage Site by UNESCO in the year 1985. The park resides at an edge of the Eastern Himalayan biodiversity hotspot and this could be the perfect reason to envision high degrees of diversified species with great visibility.
39. (B) Each kidney is made up of about a million filtering units called nephrons. Each nephron filters a small amount of blood. The nephron includes a filter, called the glomerulus and a tubule. The nephrons work through a two-step process.
40. (D) The Union Cabinet approved a policy for long-term leasing of railway land for the PM Gati Shakti programme.
42. (B) The International Development Association (IDA) is an international financial institution which offers concessional loans and grants to the world's poorest developing countries. The IDA is a member of the World Bank Group and is headquartered in Washington, D.C., United States.
43. (C) Himalaya Diwas is celebrated every year on 9 September in the state of Uttarakhand, with an aim to conserve Himalayan ecosystem and region. It was officially declared as Himalaya Day in 2015 by the state's then Chief Minister.
47. (D) Mumps is a relatively mild short term viral infection of the salivary glands that usually occurs during childhood. The salivary glands are also called the parotid glands; therefore, mumps is some times referred to as an inflammation of the parotid glands (epidemic parotitis).
49. (D) Taxes on tooth paste come under GST which is administered by State government. Sales tax is paid to sales tax authority in the state from where the goods are moved.
50. (A) Wajid Ali Shah was the tenth and last Nawab of Awadh, holding the position for 9 years, from February 13, 1847 to February 11, 1856. He was the Nawab when Awadh merged into British Empire.
51. (B) Profit $\%=\frac{\text { Real } W \text { eight }-F \text { alse } W \text { eight }}{\text { False } W \text { eight }} \times 100$
$=\left(\frac{1000-800}{800} \times 100\right) \%=25 \%$
52. (A) Ratio of efficiency of Rahim, Ram and Guru $=2: 5: 3$

Total work $=30 \times(2+5+3)$ units $=300$ units
Time taken by Guru alone to complete the task $=\frac{300}{3}=100$ hours
Time taken by Guru to complete $60 \%$ of task $=60 \%$ of $100=60$ hours

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53. (C) Let the speed of three cars be $x, y$ and $z \mathrm{~km} /$ hours and distance between Begusarai and Patna be D km.

ATQ,
$\left(\frac{D}{x}-\frac{D}{y}=\frac{D}{y}-\frac{D}{z}\right)$
$\frac{2 D}{y}=\frac{D}{x}+\frac{D}{z}$
$\frac{2}{y}=\frac{1}{x}+\frac{1}{z}$
$\frac{126}{x}-\frac{126}{y}=\frac{1}{4}$
$\frac{1}{x}-\frac{1}{y}=\frac{1}{4 \times 126}=\frac{1}{504}$
Distance travel by third car when meet the first car $=(126+18) \mathrm{km}=144 \mathrm{~km}$ Distance travel by first car when meet the third car $=(126-18)=108 \mathrm{~km}$ ATQ,
$\frac{144}{z}=\frac{108}{x}$
$\frac{4}{z}=\frac{3}{x}$
(iii)

Adding equation (i) and from (ii) $\times 2$,

$$
\begin{aligned}
& \frac{2}{x}-\frac{2}{y}=\frac{2}{504} \\
& \frac{\frac{2}{y}-\frac{1}{x}=\frac{1}{z}}{\frac{1}{x}}=\frac{2}{504}+\frac{1}{z} \\
& \frac{3}{x}=\frac{6}{504}+\frac{3}{z} \\
& \frac{4}{z}=\frac{1}{84}+\frac{3}{z} \\
& \frac{1}{z}=\frac{1}{84} \\
& z=84 \\
& \text { Speed of third car }=84 \mathrm{~km} / \mathrm{hr}
\end{aligned}
$$

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54．（B）Cost price of TV $=₹ 7500$
Profit $=15 \%$
SP of the TV＝₹ $7500 \times \frac{115}{100}=₹ 8625$
Discount $=$ MP $-\mathrm{SP}=10000-8625=₹ 1375$
Let the discount percentage $=x \%$
ATQ，
$\frac{10000 \times x}{100}=1375$
$\mathrm{x}=13.75 \%$
55．（D）Radii of faces of the frustum of cone $=6 \mathrm{~cm}$ and 4 cm
Height of frustum of cone $=10.5 \mathrm{~cm}$
Volume of frustum of cone $==\frac{1}{3} \pi h\left[\mathrm{R}^{2}+\mathrm{r}^{2}+\mathrm{Rr}\right]$
$=\frac{1}{3} \times \frac{22}{7} \times 10.5\left[6^{2}+4^{2}+6 \times 4\right]$
$=\frac{1}{3} \times \frac{22}{7} \times 10.5 \times 76=836 \mathrm{~cm}^{3}$

56．（B）$\sqrt{x}-\frac{1}{\sqrt{x}}=2 \sqrt{2}$
Squaring both sides，
$x+\frac{1}{x}-2 \times \sqrt{x} \times \frac{1}{x}=8$
$x+\frac{1}{x}-2=8$
$x+\frac{1}{x}=10$
Squaring both sides，

$$
x^{2}+\frac{1}{x^{2}}+2 \times x \times \frac{1}{x}=100
$$

$x^{2}+\frac{1}{x^{2}}=98$
57．（A） $\tan \theta=\cot \left(60^{\circ}+\theta\right)$
$\tan \left[90^{\circ}-\left(90^{\circ}-\theta\right)\right]=\cot \left(60^{\circ}+\theta\right)$
$\cot \left(90^{\circ}-\theta\right)=\cot \left(60^{\circ}+\theta\right) \quad[\because \tan (90-\theta)=\cot \theta]$
$90^{\circ}-\theta=60^{\circ}+\theta$
$2 \theta=30^{\circ}$
$\therefore \quad \theta=15^{\circ}$
58. (B) $\frac{\cos \theta}{1-\sin \theta}+\frac{\cos \theta}{1+\sin \theta}=4$
$\cos \theta\left[\frac{1-\sin \theta+1+\sin \theta}{1-\sin ^{2} \theta}\right]=4$
$\frac{\cos \theta \times 2}{\cos ^{2} \theta}=4$
$\frac{2}{\cos \theta}=4$
$\cos \theta=\frac{1}{2}=\cos 60^{\circ}$
$\theta=60^{\circ}$
$\therefore \tan \theta+\operatorname{cosec} \theta=\tan 60^{\circ}+\operatorname{cosec} 60^{\circ}=\left(\sqrt{3}+\frac{2}{\sqrt{3}}\right)$
$=\left(\frac{3+2}{\sqrt{3}}\right)=\frac{5}{\sqrt{3}}=\frac{5 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}}=\frac{5 \sqrt{3}}{3}$
59. (D) If the points are collinear then slope of $A B=$ Slope of $B C=$ Slope of $A C$
$\xrightarrow[\mathrm{A}(\mathrm{x}, 0)]{\bullet} \quad \mathrm{C}(1,1) \quad \bullet$
Slope of AB $=$ Slope of BC $=$ Slope of AC
$\frac{1-0}{1-x}=\frac{y-1}{0-1}=\frac{0-y}{x-0}$
$\frac{1}{1-x}=\frac{y-1}{-1}=\frac{-y}{x}$
$(1-x)(y-1)=-1$
$\frac{1}{1-x}=\frac{-y}{x}$
$x-1=\frac{-x}{y}$
$\frac{x}{-x}-\frac{1}{-x}=\frac{1}{y}$
$-1+\frac{1}{x}=\frac{1}{y}$
$\frac{1}{x}-\frac{1}{y}=1$
60. (C) $(a+b+c)^{2}=a^{2}+b^{2}+c^{2}+2(a b+b c+c a)$
$(2)^{2}=26+2(a b+b c+c a)$
$4-26=2(a b+b c+c a)$
$a b+b c+c a=-11$
$\therefore \quad \mathrm{a}^{3}+\mathrm{b}^{3}+\mathrm{c}^{3}-3 \mathrm{abc}=(\mathrm{a}+\mathrm{b}+\mathrm{c})\left(\mathrm{a}^{2}+\mathrm{b}^{2}+\mathrm{c}^{2}-\mathrm{ab}-\mathrm{bc}-\mathrm{ca}\right)$
$=2[26-(-11)]=2 \times 37=74$

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61. (D) Let the number male of be $x$ and the number of female be $y$.

ATQ,
$\frac{40.8 x+21 y}{x+y}=32$
$40.8 x+21 y=32 x+32 y$
$8.8 x=11 y$
$\frac{x}{y}=\frac{11}{8.8}=\frac{5}{4}$

Required Percentage $=\frac{5}{9} \times 100=\frac{500}{9} \%=55 \frac{5}{9} \%$
62. (C) 3840, 5720, 7788


So, the greatest number, d can be 188
Now,

$r=80 \quad r=80$
$r=80$
In all three cases $r$ is same.
So, $(d+r)=(188+80)=268$
63. (A)


Let $\mathrm{PA}=\mathrm{PC}=\mathrm{x} \quad$ (Tangent from point P$)$
$\mathrm{QA}=\mathrm{QB}=\mathrm{y} \quad$ (Tangent from point Q )
$\mathrm{RB}=\mathrm{RC}=\mathrm{Z} \quad$ (Tangent from point R )
Now,
$x+y+y+z+z+x=16+12+8$
$2(x+y+z)=36$
$x+y+z=18$
$x+y=16$
$y+z=8$
(iii)
$x+z=12$
Solving equation (i) and (iii)

$$
\begin{gathered}
x+y+z=18 \\
-y+z=\underline{8} \\
-\quad x=10 \\
\hline
\end{gathered}
$$

Solving equation (i) and (iv)
$x+y+z=18$
$\frac{x^{x+} \quad z^{-12}}{y=6}$
$\mathrm{PC}=\mathrm{x}=10 \mathrm{~cm}$
$Q B=y=6 \mathrm{~cm}$
$\therefore \quad \mathrm{PC}+\mathrm{QB}=10+6=16 \mathrm{~cm}$
64. (C)


In $\triangle \mathrm{ABD}$,
$\angle \mathrm{BAD}=180^{\circ}-90^{\circ}-64^{\circ}=26^{\circ}$
$\angle \mathrm{BAE}=26^{\circ}+18^{\circ}=44^{\circ}$
$\angle \mathrm{BAE}=\angle \mathrm{EAC}=44^{\circ}$ ( AE is the angle bisector) .
In $\triangle \mathrm{ABC}$,
$\angle \mathrm{ACB}=180^{\circ}-88^{\circ}-64^{\circ}=28^{\circ}$
65. (A) Let total sum invested be 200x.

$$
\begin{aligned}
& 200 x \text { of } \frac{2}{4}=200 \mathrm{x} \times \frac{2}{4}=100 \mathrm{x} \\
& 200 \mathrm{x} \text { of } \frac{1}{5}=200 \mathrm{x} \times \frac{1}{5}=40 \mathrm{x}
\end{aligned}
$$

Remaining Amount $=200 x-(100 x+40 x)=60 x$
ATQ,

$$
\frac{100 \mathrm{x} \times 4 \times 3}{100 \times 2}+\frac{40 \mathrm{x} \times 3 \times 10}{100 \times 3}+\frac{60 \mathrm{x} \times 5 \times 6}{100 \times 2}=646
$$

$6 x+4 x+9 x=646$
$19 x=646$
$x=\frac{646}{19}=34$
$\mathrm{x}=34$
$\therefore$ Total sum $=200 \mathrm{x}=200 \times 34=₹ 6800$
66. (A) $5 \sin \theta-4 \cos \theta=0$
$5 \sin \theta=4 \cos \theta$
$\therefore \frac{5 \sin \theta-2 \cos \theta}{5 \sin \theta+3 \cos \theta}$
Putting the value of $5 \sin \theta$
$\frac{4 \cos \theta-2 \cos \theta}{4 \cos \theta+3 \cos \theta}=\frac{2 \cos \theta}{7 \cos \theta}=\frac{2}{7}$
67. (C) Let the side of cube be x cm .

Volume of cube $=(\text { side })^{3}=x^{3} \mathrm{~cm}^{3}$
Let the cube is cut along its height So, the sides of cuboid is $x \mathrm{~cm}, \mathrm{x} \mathrm{cm}$ and $\frac{\mathrm{x}}{3} \mathrm{~cm}$.
Total surface are of cuboid $=2(l b+b h+l h)=2\left(x \times x+x \times \frac{x}{3}+x \times \frac{x}{3}\right) \mathrm{cm}^{2}$
$=2\left(\mathrm{x}^{2}+\frac{2 \mathrm{x}^{2}}{3}\right) \mathrm{cm}^{2}=\frac{10 \mathrm{x}^{2}}{3} \mathrm{~cm}^{2}$
Total surface area of cube $=6 \times(\text { side })^{2}=\left(6 \times x^{2}\right) \mathrm{cm}^{2}$
$\therefore \quad$ Required ratio $=6 \mathrm{x}^{2}:\left(2 \times \frac{10 \mathrm{x}^{2}}{3}\right)=18 \mathrm{x}^{2}: 20 \mathrm{x}^{2}=9: 10$
68. (B) $\frac{2}{3} \div \frac{3}{10}$ of $\frac{4}{9}-\frac{4}{5} \times 1 \frac{1}{9} \div \frac{8}{15}-\frac{3}{4}+\frac{3}{4} \div \frac{1}{2}$
$=\frac{2}{3} \div \frac{12}{90}-\frac{4}{5} \times \frac{10}{9} \div \frac{8}{15}-\frac{3}{4}+\frac{3}{4} \div \frac{1}{2}$
$=\frac{2}{3} \times \frac{90}{12}-\frac{4}{5} \times \frac{10}{9} \times \frac{15}{8}-\frac{3}{4}+\frac{3}{4} \times \frac{2}{1}$
$=5-\frac{5}{3}-\frac{3}{4}+\frac{3}{2}$
$=\frac{60-20-9+18}{12}=\frac{49}{12}=4 \frac{1}{12}$
69. (D) 6 women can complete the work in 3 days.

Therefore 4 women can complete the work in $\frac{3 \times 6}{4}=\frac{9}{2}$ days
Work done by 4 women in 3 days $=\frac{3}{9} \times 2=\frac{2}{3}$
Remaining work $=1-\frac{2}{3}=\frac{1}{3}$
16 children do $\frac{1}{3}$ work in 3 days.

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Now, $\frac{\mathrm{M}_{1} \mathrm{D}_{1}}{\mathrm{~W}_{1}}=\frac{\mathrm{M}_{2} \mathrm{D}_{2}}{\mathrm{~W}_{2}}$
$\frac{16 \times 3}{\frac{1}{3}}=9 \times \mathrm{D}_{2}$
$\mathrm{D}_{2}=\frac{16 \times 3 \times 3}{9}=16$ days
70. (B) The smallest 3 digit number divisible by 6 is 102 and the largest one is 996. Let there be $n$ such numbers.

The set of numbers forms an arithmetic sequence:
$\mathrm{t}_{\mathrm{n}}=\mathrm{a}+(\mathrm{n}-1) \mathrm{d}$
Here, $d=6, a=102$
$996=102+(n-1) 6$
$(n-1) 6=996-102=894$
$n-1=\frac{894}{6}=149$
$\mathrm{n}=149+1=150$
71. (A) Let the first term be a and common difference be d.

ATQ,
$a+(3-1) \times d=15$
$a+2 d=15$
And $a+(5-1) \times d=23$
$a+4 d=23$
By subtracting equation (i) from (ii), we get
$a+2 d-a-4 d=15-23$
$2 d=8$
$\mathrm{d}=4$
Put the value of $d$ in equation (i),
$a+2 \times 4=15$
$\mathrm{a}=15-8=7$
$\therefore \quad a_{15}=a+(15-1) \times d$
$=7+14 \times 4=7+56=63$
72. (A) Percentage of students in EC $=19 \%$

Ratio $=$ boys and girls $=9: 10$
Percentage of boys in EC $=\left(19 \times \frac{9}{19}\right) \%=9 \%$
Percentage of girls in $\mathrm{EC}=\left(19 \times \frac{10}{19}\right) \%=10 \%$
Difference in percentage $=\left(\frac{10-9}{19} \times 100\right) \%=5.26 \%$
Percentage of students in CS = 18\%
Ratio of boys and girls = 4:5

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Percentage of boys in CS $=\left(18 \times \frac{4}{9}\right) \%=8 \%$
Percentage of girls in CS $=\left(18 \times \frac{5}{9}\right) \%=10 \%$
Difference in percentage $=\left(\frac{10-8}{18} \times 100\right) \%=11.11 \%$
Percentage of students in IT $=21 \%$
Ratio of boys and girls $=3: 4$
Percentage of boys in IT $=\left(21 \times \frac{3}{7}\right) \%=9 \%$
Percentage of girls in IT $=\left(21 \times \frac{4}{7}\right) \%=12 \%$
Difference in percentage $=\left(\frac{12-9}{21} \times 100\right) \%=14.28 \%$
Percentage of students in $\mathrm{ME}=22 \%$
Ratio of boys and girls $=6: 5$
Percentage of boys in ME $=\left(22 \times \frac{6}{6+5}\right) \%=12 \%$
Percentage of girls in ME $=\left(22 \times \frac{5}{6+5}\right) \%=10 \%$
Difference in percentage $=\left(\frac{12-10}{22} \times 100\right) \%=9.09 \%$
Hence difference in the percentage of boys and girls in EC is minimum.
73. (C) From above solution:

Percentage of boys in $\mathrm{EC}=9 \%$
Percentage of girls in EC $=10 \%$
Percentage of boys in CS $=8 \%$
Percentage of girls in CS $=10 \%$
Percentage of boys in IT $=9 \%$
Percentage of girls in IT $=12 \%$
Percentage of boys in ME $=12 \%$
Percentage of girls in ME $=10 \%$
Percentage of boys in CE $=20 \% \times \frac{3}{3+2}=12 \%$
Percentage of girls in $\mathrm{CE}=20 \%-12 \%=8 \%$
Total percentage of boys in college $=9 \%+8 \%+9 \%+12 \%+12 \%=50 \%$
Total percentage of girls in college $=(100-50) \%=50 \%$
Required ratio $=50 \%: 50 \%=1: 1$
74. (C) From above solution:

Percentage of girls in college $=50 \%$
Percentage of girls in ME $=10 \%$
Required central angle $=\left(\frac{10 \%}{50 \%} \times 360^{\circ}\right)=72^{\circ}$
75. (C) Percentage of students studying in $\mathrm{CS}=18 \%$

Percentage of students studying in $\mathrm{IT}=21 \%$
Ratio of student studying CS and IT $=18 \%: 21 \%=6: 7$

## MEANINGS IN ALPHABETICAL ORDER

Altruist

Autonomy
Commemorate
Drastic

Fatigue
Harmonize
Hinder

Indifference
Intervention

Noticeable
Optimum
Perspective
Priest

Selflessness
a person unselfishly concerned for or devoted to the welfare of others
the right or condition of self-government
recall and show respect for someone or something
likely to have a strong or far-reaching effect
extreme tiredness
add notes to a melody to produce harmony
create difficulties for someone or something resulting in delay or obstruction
lack of interest, concern, or sympathy
the action of preventing or altering a result or course of events
easily seen or noticed
most conducive to a favorable outcome
a point of view
one who performs certain rites and administer certain sacraments in church
concern more with the needs and wishes of others than with one's own

Sovereignty
Vocalist
supreme power or authority
a singer

पा पका री

स्वयं प I सम
पु प्स मरप करना
कठ † र

## था का न

स वर य जा करना
अड . चन करना

उ दा से नता
हस तक्ष ${ }^{`}$ प

उ ल ले ख नी य
इष्ट तम
दृ षिट का प
प दरी

निस्स वा थ $\top^{`}$ ता

संप्र $\%$ T, ता
गा यक

1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09

## SSC MOCK TEST - 359 (ANSWER KEY)

| 1. | (D) |
| :---: | :---: |
| 2. | (C) |
| 3. | (D) |
| 4. | (A) |
| 5. | (D) |
| 6. | (C) |
| 7. | (D) |
| 8. | (C) |
| 9. | (A) |
| 10. | (A) |
| 11. | (A) |
| 12. | (C) |
| 13. | (B) |
| 14. | (B) |
| 15. | (B) |
| 16. | (B) |
| 17. | (C) |
| 18. | (B) |
| 19. | (A) |
| 20. | (C) |
| 21. | (B) |
| 22. | (B) |
| 23. | (B) |
| 24. | (B) |
| 25. | (A) |

26. (B)
27. (B)
28. (A)
29. (B)
30. (A)
31. (C)
32. (B)
33. (D)
34. (B)
35. (A)
36. (C)
37. (A)
38. (A)
39. (D)
40. (C)
41. (D)
42. (D)
43. (D)
44. (D)
45. (C)
46. (C)
47. (D)
48. (A)
49. (C)
50. (A)
51. (B)
52. (D)
53. (A) Instead of 'What is needed is', it should be 'what is needed are', as the subject of the sentence is 'proper guidelines' which is plural and it will take 'are' instead of 'is'.
54. (B) Change 'accepts', into 'accept', it comes for 'those people', and hence should be followed by a plural verb.
55. (A) 'To steal somebody's thunder' means 'to do what someone else was going to do before they do it, especially if this takes success or praise away from them.'
56. (D) The correct spelling of 'Noticeble' is 'Noticeable', 'Perspactive' is 'Perspective' and 'Indifferance' is 'Indifference'.
57. (D) The correct spelling is 'Accelaretor' is 'Accelerator'.
