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

## SSC MOCK TEST - 397 (SOLUTION)

1. (1) As,
$18 \Rightarrow 18 \times 3=54 \Rightarrow 45$
Similarly,
$17 \Rightarrow 17 \times 3=51 \Rightarrow 15$
2. (1) Taka is a currency of Bangladesh, while won is the currency of Korea.
3. (4) (1) $37 \Rightarrow 3 \times 7=21$ (Divisible by 3)
(2) $93 \Rightarrow 9 \times 3=27$ (Divisible by 3)
(3) $13 \Rightarrow 1 \times 3=3$ (Divisible by 3)
(4) $77 \Rightarrow 7 \times 7=49$ (Not divisible by 3 )
4. (2) All except Small Pox are caused by bacteria, while Small Pox is caused by virus.
5. (2) As,


Similarly,

6. (2)

7.
(2) $20+18=38$
$38+9=47$
$47+4.5=51.5$
$51.5+2.25=\mathbf{5 3 . 7 5}$
8. (3)

$A$ and $B$ starts from point $O$, $A$ first goes 6 m to $A$ then 8 m in to right at $C$.
$\mathrm{OC}=\sqrt{8^{2}+6^{2}}=\sqrt{64+36}=\sqrt{100}=10 \quad$ (By Pythagoras theorem)
$B$ first goes 8 km up to $B$ then his left 6 km up to $D$
$\mathrm{OD}=\sqrt{8^{2}+6^{2}}=\sqrt{64+36}=\sqrt{100}=10 \quad$ (By Pythagoras theorem)
Hence, both are 10 km far from the starting point O .
9. (3) As, $68-17=51 \Rightarrow 5+1=6$

Similarly, $72-14=58 \Rightarrow 5+8=13$
10. (2) dljcg/dljcg/dljcg
11. (1)
12. (4) In the first column,
$4^{2}+9^{2}=97 \Rightarrow 97 \times 2=194$
In the second column,
$6^{2}+7^{2}=85 \Rightarrow 85 \times 2=170$
In the third column,
$8^{2}+4^{2}=80 \Rightarrow 80 \times 2=160$
13. (3) $72 \div 3+4 \times 9-8=12$

After changing 3 and 9 to each other,
$72 \div 9+4 \times 3-8=12$
$8+12-8=12$
$12=12$
14. (2)
15. (3) 2. Cerebellum $\rightarrow$ 4. Ceremonious $\rightarrow 5$. Certainty $\rightarrow$ 1. Certificate $\rightarrow$ 3. Cervical
16. (1)


Hence, P is the son of Q .
17. (2)

I. False
II. False
III. False

Hence, no conclusions follows.
18. (4)
19. (4)
20. (3) As, $17+2^{3}=25$
$25+3^{3}=52$
Similarly, $18+2^{3}=26$
$26+3^{3}=53$
21. (1) As, MAMMAL $\Rightarrow 13+1+13+13+1+12=53 \Rightarrow 53+6^{2}=89$

And, ANIMAL $\Rightarrow 1+14+9+13+1+12=50 \Rightarrow 50+6^{2}=86$
Similarly, MOBILE $\Rightarrow 13+15+2+9+12+5=53 \Rightarrow 53+6^{2}=89$
22. (3) 23. (2) 24. (3) 25. (4)
26. (1) The most common animal figure found at all the Harappan sites is unihorn bull.
27. (2) Astronauts, who have seen the earth from space, say that the earth appears blue in colour. It is because of the presence of water. Earth is, therefore, also called Blue Planet.
28. (2) Alexandria and Port Said (Egypt) and Benghazi (Liby(1) are in the western side of Suez Canal whereas Suez is at the eastern entry point nearest to Mumbai. Suez Canal is 160 km long man-made canal which cuts through the isthmus between Egypt and Sinai Peninsula.
32. (3) Article three of the Constitution of India states that Parliament may legally enlarge the territory of any State, reduce the territory of any State, alter the boundaries of any State, and even change the name of any State. So, the correct answer is option C.
33. (3) Garo, Khasi, Jaintia hills are part of Meghalaya plateau. These hills are formed in the same age as Malwa plateau.
34. (4) Lunar caustic is a salt of silver (Ag). Silver was called 'Luna' by the ancient alchemists, who associated silver with the moon. 'Caustic' means being able to corrode organic tissue by chemical action.
35. (2) The Google introduced the Indian Languages Programme with the goal of offering training, assistance, and financial aid to small news publishers in India who work in eight local languages apart from English.
36. (3) About $25 \%$ of produced oxalic acid will be used as a mordant in dyeing processes. It is also used in bleaches, especially for pulpwood, and for rust removal and other cleaning, in baking powder, and as a third reagent in silica analysis instruments.
38. (3) A 'black hole' is a body in space which does not allow any radiation to come out. ... Notes: A black hole is a region of spacetime exhibiting gravitational acceleration so strong that nothing-no particles or even electromagnetic radiation such as light-can escape from it.
39. (3) Historical Perspective. After the development of the germ theory of disease by Louis Pasteur, the French-Algerian physician Charles Louis Alphonse Laveran examined and described malarial organisms in the red blood cells of his patients in 1870.
40. (4) Ian Macpherson is an Irish writer and performer. He is best known for his stand-up comedy (especially alternative comedy) and for his comic novels including Deep Probings: The Autobiography of a Genius.
42. (4) Arjuna Awards were instituted in 1961 by the Government of India to recognise outstanding achievement in national sports.
44. (2) The 8th of September was proclaimed International Literacy Day by UNESCO in 1966 to remind the international community of the importance of literacy for individuals, communities and societies, and the need for intensified efforts towards more literate societies.
47. (3) The states mainly producing mulberry silk are Andhra Pradesh, Karnataka, Tamil Nadu, West Bengal, and Jammu \& Kashmir. Among all these, Karnataka is the major producer of mulberry silk in India.
48. (1) The Championships, Wimbledon, commonly known simply as Wimbledon or The Championships, is the oldest tennis tournament in the world and is widely regarded as the most prestigious.
49. (2) Machine Language: A program written in the form of Os \& Is are called machine language.
50. (1) The government has formed an expert panel, headed by former law secretary T K Vishwanathan, to establish India as a global center for international arbitration and alleviate the strain on courts.

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51. (2) Let the efficiency of $P$ be $x$ work/day

Efficiency of $Q=(x \times 2)=2 x$ work $/$ day
Efficiency of $R=\left(\frac{x+2 x}{2}\right)=\frac{3 x}{2}$ work/day
Total work $=30 \times \frac{3 \mathrm{x}}{2}=45 \mathrm{x}$

Time taken by $P$ to complete the work $=\frac{45 x}{x}=45$ days
Time taken by $Q$ to complete the work $=\frac{45 x}{2 x}=\frac{45}{2}$ days



Time taken by P, Q and R together to complete the work $=\frac{90}{2+4+3}=\frac{90}{9}=10$ days
52. (2) Equivalent discount $\%=20 \%+10 \%-\frac{20 \times 10}{100} \%=28 \%$

ATQ,
$(100-28) \%=₹ 1800$
$72 \%=₹ 1800$
$100 \%=\left(\frac{1800}{72} \times 100\right)=₹ 2500$
$\therefore \quad$ Marked price of article $=₹ 2500$
53. (3)
$\frac{\left(10^{3}+9^{3}\right)^{512}}{12^{3}}=\frac{(1000+729)^{512}}{1728}$
$\frac{(1729)^{512}}{1728}$ remainder $\Rightarrow(1)^{512}=1$
54. (4) Sum of temperature of Sunday + Monday + Tuesday $=(30 \times 3)^{\circ} \mathrm{C}=90^{\circ} \mathrm{C}$

Sum of temperature of Monday + Tuesday + Wednesday $=(27 \times 3)^{\circ} \mathrm{C}=81^{\circ} \mathrm{C}$
Subtract equation (ii) from (i),
Sunday - Wednesday $=9^{\circ} \mathrm{C}$
$\Rightarrow$ Sunday $-\frac{2}{3}$ Sunday $=9^{\circ} \mathrm{C}$
$\Rightarrow \frac{\text { Sunday }}{3}=9^{\circ} \mathrm{C}$
$\therefore$ Sunday $=27^{\circ} \mathrm{C}$
Temperature of Wednesday $=\left(27^{\circ} \times \frac{2}{3}\right)=18^{\circ} \mathrm{C}$

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55. (1) Let the Sanjur's salary be ₹ 100

Ankit's salary $=₹ 100+50 \%$ of $100=₹ 150$
After increment,
Ankit's salary = ₹ $150+30 \%$ of $₹ 150=₹ 195$
Sanjur's salary $=₹ 100+25 \%$ of $₹ 100=₹ 125$
Required $\%=\left(\frac{195-125}{125} \times 100\right) \%=56 \%$
56. (3) Principal $=₹ 2000$

Rate $=12 \%$ p.a
Time $=3$ years
S.I $=\frac{\mathrm{P} \times \mathrm{R} \times \mathrm{T}}{100}=\left(\frac{2000 \times 12 \times 3}{100}\right)=₹ 720$

Rate $=10 \%$ p.a
C.I $=P\left(1+\frac{\mathrm{R}}{100}\right)^{\mathrm{T}}-\mathrm{P}$
$=2000\left(1+\frac{10}{100}\right)^{3}-2000=₹ 662$
Required difference $=₹ 720-₹ 662=₹ 58$
57. (4) Let 'a' and ' $b$ ' be $2 x$ and $3 x$ respectively
$\therefore \quad \frac{4 a+3 b}{5 a-2 b}=\frac{4 \times 2 x+3 \times 3 x}{5 \times 2 x-2 \times 3 x}=\frac{8 x+9 x}{10 x-6 x}$
$=\frac{17 \mathrm{x}}{4 \mathrm{x}}=\frac{17}{4}=17: 4$
58. (3)

$\mathrm{OC}=7 \mathrm{~cm}$
$\mathrm{OA}=25 \mathrm{~cm}$ (radius)
$\mathrm{AB}=$ chord
We know that perpendicular drawn from the centre bisects the chord.
In $\triangle \mathrm{OAC}$,
$\mathrm{OA}^{2}=\mathrm{AC}^{2}+\mathrm{OC}^{2}$ (Phythagoras theorem)
$(25)^{2}=\mathrm{AC}^{2}+(7)^{2}$
$\sqrt{625-49}=\mathrm{AC}$
$\mathrm{AC}=\sqrt{576}=24 \mathrm{~cm}$
$\mathrm{AB}=2 \times \mathrm{AC}=2 \times 24 \mathrm{~cm}=48 \mathrm{~cm}$
59. (3) (1) $\sqrt{99}-\sqrt{97}=\frac{(\sqrt{99}-\sqrt{97})(\sqrt{99}+\sqrt{97})}{\sqrt{99}+\sqrt{97}}$
$=\frac{99-97}{\sqrt{99}+\sqrt{97}}=\frac{2}{\sqrt{99}+\sqrt{97}}$
(2) $\sqrt{26}-\sqrt{24}=\frac{(\sqrt{26}-\sqrt{24})(\sqrt{26}+\sqrt{24})}{\sqrt{26}+\sqrt{24}}$
$=\frac{26-24}{\sqrt{26}+\sqrt{24}}=\frac{2}{\sqrt{26}+\sqrt{24}}$
(3) $\sqrt{3}-1=\frac{(\sqrt{3}-1)(\sqrt{3}+1)}{\sqrt{3}+1}=\frac{3-1}{\sqrt{3}+1}=\frac{2}{\sqrt{3}+1}$
(4) $\sqrt{101}-\sqrt{99}=\frac{(\sqrt{101}-\sqrt{99})(\sqrt{101}-\sqrt{99})}{\sqrt{101}+\sqrt{99}}=\frac{2}{\sqrt{101}+\sqrt{99}}$

So, the $\sqrt{3}-1$ is greatest number.
60. (3)


Let height of clock tower be $h$.
In $\triangle$ OMP,
$\cot \alpha=\frac{O P}{O M}=\frac{O P}{h}$
$\mathrm{OP}=\mathrm{h} \cot \alpha$
In $\triangle \mathrm{OMQ}$,
$\cot \beta=\frac{\mathrm{OQ}}{\mathrm{OM}}=\frac{\mathrm{OQ}}{\mathrm{h}}$
$\mathrm{OQ}=\mathrm{h} \cot \beta$

In $\triangle \mathrm{POQ}$,
$\mathrm{PQ}^{2}=\mathrm{OP}^{2}+\mathrm{OQ}^{2}$
$P Q^{2}=h^{2} \cot ^{2} \alpha+h^{2} \cot ^{2} \beta$
Similarly,
$\mathrm{RS}^{2}=\mathrm{h}^{2} \cot ^{2} \gamma+\mathrm{h}^{2} \cot ^{2} \delta$

So, $\frac{\mathrm{PQ}^{2}}{\mathrm{RS}^{2}}=\frac{\cot ^{2} \alpha+\cot ^{2} \beta}{\cot ^{2} \gamma+\cot ^{2} \delta}$
61. (2)


In $\triangle \mathrm{CAE}$,
$\angle \mathrm{CAE}=180^{\circ}-\left(90^{\circ}+20^{\circ}\right)$
$=180^{\circ}-110^{\circ}=70^{\circ}$
In $\triangle \mathrm{ABD}$,
$\angle \mathrm{BDA}=180^{\circ}-\left(70^{\circ}+50^{\circ}\right)$
$=180^{\circ}-120^{\circ}=60^{\circ}$
62. (1) In radius of circle $=\frac{\text { area of } \Delta}{\text { semiperimeter of } \Delta}$

$$
\begin{aligned}
& \mathrm{a}=26 ; \quad \mathrm{b}=28 ; \quad \mathrm{c}=30 \\
& \mathrm{~s}=\frac{\mathrm{a}+\mathrm{b}+\mathrm{c}}{2}=\frac{26+28+30}{2}=\frac{84}{2}=42 \mathrm{~cm}
\end{aligned}
$$

Area of $\Delta=\sqrt{\mathrm{s}(\mathrm{s}-\mathrm{a})(\mathrm{s}-\mathrm{b})(\mathrm{s}-\mathrm{c})}=\sqrt{42(42-26)(42-28)(42-30)}$
$=\sqrt{14 \times 3 \times 16 \times 14 \times 3 \times 4}$
$=(14 \times 3 \times 4 \times 2) \mathrm{cm}^{2}=336 \mathrm{~cm}^{2}$
In radius of circle $=\left(\frac{336}{42}\right) \mathrm{cm}=8 \mathrm{~cm}$

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63. (4) $\mathrm{x}^{4}+\frac{1}{\mathrm{x}^{4}}=34$
$\left(x^{2}+\frac{1}{x^{2}}\right)^{2}-2=34$
$\left(x^{2}+\frac{1}{x^{2}}\right)^{2}=36$
$x^{2}+\frac{1}{x^{2}}=6$
$\left(x-\frac{1}{x}\right)^{2}+2=6$
$\left(x-\frac{1}{x}\right)^{2}=4$
$\left(x-\frac{1}{x}\right)=2$
Cubing both sides,
$\left(x-\frac{1}{x}\right)^{3}=8$
$\mathrm{x}^{3}-\frac{1}{\mathrm{x}^{3}}-3 \mathrm{x} \times \frac{1}{\mathrm{x}}\left(\mathrm{x}-\frac{1}{\mathrm{x}}\right)=8$
$x^{3}-\frac{1}{x^{3}}-3 \times 2=8$
$\mathrm{x}^{3}-\frac{1}{\mathrm{x}^{3}}=14$
64. (2) Let the number be $5 x$ and $6 x$ respectively.

HCF of number $=x$
LCM of number $=30 \mathrm{x}$
$\mathrm{x}=16$
Numbers $=(5 \times 16),(6 \times 16)=80,96$
Smallest number $=80$
65. (1) Average number for which train stop $=\frac{\text { Speed without stoppage }- \text { Speed with stoppage }}{\text { Speed without stoppage }}$ $=\left(\frac{60-45}{60}\right)$ hours $=\frac{15}{60}$ hours
$=\left(\frac{15}{60} \times 60\right)$ minutes $=15$ minutes
66. (4)


Let the radius of circle be $4 \mathrm{x}, 5 \mathrm{x}$ and 7 x .
Area between the two inner circles $=\pi \mathrm{r}_{2}^{2}-\pi \mathrm{r}_{1}^{2}$
$=\pi\left(5^{2}-4^{2}\right)=9 \pi \mathrm{~cm}^{2}$
Area between the two outer circles $=\pi r_{3}^{2}-\pi r_{2}^{2}$
$=\pi\left(7^{2}-5^{2}\right)=24 \pi \mathrm{~cm}^{2}$

Required ratio $=(9 \pi: 24 \pi)=3: 8$
67. (2) $5 \sin \theta-3 \cos \theta=x$
$3 \sin \theta+5 \cos \theta=5$
$\qquad$

Squaring both equation and adding,
$(5 \sin \theta-3 \cos \theta)^{2}+(3 \sin \theta+5 \cos \theta)^{2}=x^{2}+25$
$25 \sin ^{2} \theta+9 \cos ^{2} \theta-30 \sin \theta \cos \theta+9 \sin ^{2} \theta+25 \cos ^{2} \theta+30 \sin \theta \cos \theta=x^{2}+25$
$34\left(\sin ^{2} \theta+\cos ^{2} \theta\right)=x^{2}+25$
$34=x^{2}+25$
$x^{2}=34-25=9$
$x=\sqrt{9}= \pm 3$
68. (4) Ratio of investment of $A, B$ and $C=\frac{1}{4}: \frac{1}{3}: \frac{1}{6}=3: 4: 2$

Let the investment of A, B and C be ₹ $3 x$, ₹ $4 x$ and $₹ 2 x$ respectively.
Ratio of profit $=\left(3 x \times 4+\frac{3 x}{2} \times 8\right):\left(4 x \times 6+\frac{4 x}{3} \times 6\right):(2 x \times 12)$
$=24 x: 32 x: 24 x=3: 4: 3$
Profit of $A=₹ 14000 \times \frac{3}{3+4+3}=₹ 4200$
Profit of $B=₹ 14000 \times \frac{4}{3+4+3}=₹ 5600$

Profit of $C=₹ 14000 \times \frac{3}{3+4+3}=₹ 4200$

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69. (3) $(a+b+c)^{2}=a^{2}+b^{2}+c^{2}+2(a b+b c+c a)$
$(2)^{2}=26+2(a b+b c+c a)$
$4-26=2(a b+b c+c a)$
$a b+b c+c a=-11$
$a^{3}+b^{3}+c^{3}-3 a b c=(a+b+c)\left(a^{2}+b^{2}+c^{2}-a b-b c-c a\right)$
$=2[26-(-11)]=2 \times 37=74$
70. (1) Speed of boat in downstream $=(5+1) \mathrm{km} / \mathrm{h}=6 \mathrm{~km} / \mathrm{h}$

Speed of boat in upstream $=(5-1) \mathrm{km} / \mathrm{h}=4 \mathrm{~km} / \mathrm{h}$
Let the distance be 'D' km.
ATQ,
$\frac{D}{6}+\frac{D}{4}=1$
$\frac{2 D+3 D}{12}=1$
$\mathrm{D}=\frac{12}{5} \mathrm{~km}=2.4 \mathrm{~km}$
71. (1) $7.6-(8.4 \div 1.4 \times 6)+10 \times 4 \div 1$
$=7.6-(6 \times 6)+40$
$=7.6-36+40=7.6+4=11.6$
72. (1) Required $\%=\frac{350}{350+400+450} \times 100$
$=\left(\frac{350}{1200} \times 100\right) \%=29.2 \%$
73. (2) Total number of students $=300+350+275+400+275+250+400+325+375+250+400$ $+450+250+300+500=5100$

Total number of students in commerce $=250+400+325+375+250=1600$
Required $\%=\left(\frac{1600}{5100} \times 100\right) \%=31.37 \%$
74. (1) Required ratio $=(300+350+275+400+275):(250+400+325+375+250)$
$=(1600: 1600)=1: 1$
75. (3) Total number of studen ts in all the five colleges $=5100$

Total number of students in college $B=1200$
Required angle $=\left(\frac{1200}{5100} \times 360^{\circ}\right)=84.70^{\circ} \approx 85^{\circ}$

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## MEANINGS IN ALPHABETICAL ORDER

## Alimony

Aromatic
Assassin

Befit
Clad
Commensurate
Condole
Console

Fable

Fiasco
Kleptomaniac

Optometrist

Pantheist

Parsimony

Pedantic
Perennial

Philanderer

Rhetoric

Tart
Verbatim
a husband＇s or wife＇s court－ordered provision for a spouse after separation or divorce having a pleasant and distinctive smell a murderer of an important person in a surprise attack for political or religious reasons be appropriate for
clothed corresponding in size or degree；in proportion express sympathy for（someone） comfort（someone）at a time of grief or disappointment
a short story，typically with animals as characters，conveying a moral a complete failure
a person who cannot control their desire to steal things，usually because of a medical condition

A person who has a profession of examining the eyes for visual defects and prescribing corrective lenses one who practice a doctrine that equates God with the forces and laws of the universe extreme unwillingness to spend money or use resources
showing much knowledge
lasting or existing for a long or apparently infinite time a man who readily or frequently enters into casual sexual relationships with women the art of effective or persuasive speaking or writing sharp or acid in taste in exactly the same words

खट्，ट


सु गनि धा
हर य रा

के अनु कू ल
कपडे．पहने हु ए
（किसि वसतु）के अनु स
दु ：ख में हमददी｀दिखा ना
स ₹ वना दे ना

जनवरा｀के किरदा रा’ वा ली समनी ति
काT
असम लता
वह न र्यक्तजे आ मता र प अप्मी
चिक्ति से यरिथा तिके का रप ची ज़
का चाँ री करने की अप्मी इचछ
का नियं नि T तनही ${ }^{\prime}$ कर रकता हा
आँखा＇के लिएलं सबना ने वा

वह ब्र ह्य ड की च ति ரॅ य＇आ का $q \frac{1 \text { गवा न मा नता है }}{}$ मित० य यिता

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चिरस थT $T$ य

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वा कस्，

すठ दई ：

## SSC MOCK TEST - 397 (ANSWER KEY)

| 1. (1) | 26. (1) |
| :---: | :---: |
| 2. (1) | 27. (2) |
| 3. (4) | 28. (2) |
| 4. (2) | 29. (2) |
| 5. (2) | 30. (2) |
| 6. (2) | 31. (3) |
| 7. (2) | 32. (3) |
| 8. (3) | 33. (3) |
| 9. (3) | 34. (4) |
| 10. (2) | 35. (2) |
| 11. (1) | 36. (3) |
| 12. (4) | 37. (2) |
| 13. (3) | 38. (3) |
| 14. (2) | 39. (3) |
| 15. (3) | 40. (4) |
| 16. (1) | 41. (3) |
| 17. (2) | 42. (4) |
| 18. (4) | 43. (2) |
| 19. (4) | 44. (2) |
| 20. (3) | 45. (2) |
| 21. (1) | 46. (4) |
| 22. (3) | 47. (3) |
| 23. (2) | 48. (1) |
| 24. (3) | 49. (2) |
| 25. (4) | 50. (1) |

51. (2)
52. (4)
53. (1)
54. (1)
55. (4)
56. (3)
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66. (2)
67. (3)
68. (1)
69. (3)
70. (2)
71. (2)
72. (3)
73. (2)
74. (3)
75. (3)
76. (1)
77. (D) No error
78. (A) 'Bacteria' is a plural noun, hence it is followed by a plural verb. Change 'is' into 'are'.
79. (C) Verb 'prefer' is followed by 'to'.
80. (C) No improvement. 'Taxes' is Third Person Plural Noun, therefore, 'they' should be used for it.
81. (B) The correct spelling of 'Optomatrist' is 'Optometrist'.
82. (B) The correct spelling of 'Perenial' is 'Perennial'.
