## SSC MOCK TEST - 444 (SOLUTION)

1. (3) Water of River Flows, whereas water of Pool is Stagnant.
2. (1) As, $(8+7) \times 2=30 \Rightarrow(30)^{2}=900$

And, $(3+2) \times 4=20 \Rightarrow(20)^{2}=400$
Similarly, $(7+5) \times 3=36 \Rightarrow(36)^{2}=1296$
3. (2) Except Stamen, others are female reproductive part of flower.
4. (4) (1) $\mathrm{I}+\mathrm{K}+\mathrm{T}=9+11+20=40$
(2) $\mathrm{H}+\mathrm{L}+\mathrm{T}=8+12+20=40$
(3) $\mathrm{O}+\mathrm{L}+\mathrm{M}=15+12+13=40$
(4) $\mathrm{V}+\mathrm{T}+\mathrm{Q}=22+20+17=59 \neq 40$
5. (3) As,


Similarly,

6. (2) $471+(4 \times 7 \times 1)=499$
$499+(4 \times 9 \times 9)=823$
$823+(8 \times 2 \times 3)=871$
$871+(8 \times 7 \times 1)=\mathbf{9 2 7}$
7. (2) $\mathrm{L}(12)+12=\mathrm{X}$
$\mathrm{X}(24)+24=\mathrm{V}$
$\mathrm{V}(22)+22=\mathrm{R}$
$\mathrm{R}(18)+18=\mathrm{J}$
$J(10)+10=T$
8. (3) $\mathrm{md} \underline{\underline{l}} \mathrm{kr} / \mathrm{m} \underline{\mathbf{k}} \mathrm{dlr} / \underline{\mathbf{m}} \mathrm{kd} \underline{\mathbf{r}}$
9. (2)


So, total distance $=15+16+11+19=67 \mathrm{~m}$
Hence, 67 m north from the starting point.
10. (3)
11. (4) In the first row,

$$
18+25+19=62 \Rightarrow 6^{2}=36
$$

## In the second row,

$12+14+16=42 \Rightarrow 4^{2}=16$

## In the third row,

$27+31+36=94 \Rightarrow 9^{4}=6561$
12. (1) Required number of students = A's position from right + B's position from left - 1
$=9+18-1=26$
13. (4) $495 \div 3+18-25 \times 11=-12$

Change 3 and 11 ,
$499-11+18-25 \times 3=-12$
$45+18-75=-12$
$63-75=-12$
$-12=-12$
14. (4)


Hence, M is the maternal uncle of N .
15. (2) 3. Cosment $\rightarrow$ 1. Cosmip $\rightarrow$ 4. Cosmopolitan $\rightarrow$ 5. Cost $\rightarrow$ 2. Costume
16. (1)
17. (3)

I. True
II. Doubt
III. Doubt
IV. True

Hence, conclusion I, IV and either II or III follow.
18. (4)
19. (4)
20. (3) As, $67 \times 97=6499 \Rightarrow 6+4+9+9=28$

Similarly, $95 \times 62=5890 \Rightarrow 5+8+9+0=22$
21. (1) As, ROASTER $\qquad$ Alphabeticalorder AEORRST $\qquad$ ZVLIIHG

And, STANDARD $\qquad$ Alphabetical order AADDNRST $\qquad$ Reverse ZZWWMIHG

Similarly, CAPITALISED $\xrightarrow{\text { Alphabeticalorder }}$ AACDEIILPST $\underset{ }{\text { Reverse }}$ ZZXWVRROKHG
22. (2)
23. (1)
24. (1)
25. (4)

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27. (4) Abu Rayhan Beruni or Alberonius was a Persian Scholar, wrote this book Tahqiq-i-hind. He travelled to South Asia in 1017 and authored a study of Indian culture (Tahqiqma li-1-hind...) after exploring the Brahmanical traditions and Hinduism practiced in India during those days.
29. (2) It covers regions from the Bering Sea to the East China Sea, it is the largest and largest fishing area in the world.
30. (4) Aravalli mountains are the oldest according to geological history. It is 8 billion years old. At this time there would have been a fold mountain range made up of crumpled up Aravalli Supergroup rocks.
32. (3) The image formed at the retina of the human eye is real and inverted. It is due to the presence of a convex lens in the eye.
34. (2) A female with one affected $X$ chromosome is a "carrier" of hemophilia. Sometimes a female who is a carrier can have symptoms of hemophilia. In addition, she can pass the affected X chromosome with the clotting factor gene mutation on to her children. Learn more about the inheritance pattern for hemophilia.
35. (2) ISRO was formed on August 15, 1969 and superseded INCOSPAR with an expanded role to harness space technology.
36. (1) World Sickle Cell Day is observed on June 19 to raise awareness about sickle cell disease, a genetic blood disorder. Established by a 2008 UN resolution, it aims to inform the public and stakeholders about early detection and prevention. The 2024 theme, "Hope through Progress: Advancing Sickle Cell Care Globally," emphasizes improving care and providing relief for patients worldwide.
37. (4) Semiconductor memory is a digital electronic data storage device, often used as computer memory, implemented with semiconductor electronic devices on an integrated circuit.
38. (2) The Security Council has five permanent members-the United States, China, France, Russia, and the United Kingdom-collectively known as the P5. Any one of them can veto a resolution. The Security Council's ten elected members, which serve two-year, nonconsecutive terms, are not afforded veto power.
39. (2) Bhimsen Joshi was an Indian vocalist from Karnataka in the Hindustani classical tradition. He is known for the khayal form of singing, as well as for his popular renditions of devotional music.
40. (1) he Oscar Award is cinema's most prestigious award, It is awarded to recognize the excellence of professionals including directors, actors, and writers in the film industry.
43. (2) Simla Agreement on Bilateral Relations between India and Pakistan signed by Prime Minister Indira Gandhi, and President of Pakistan, Z. A. Bhutto, in Simla on 2 July 1972.
44. (1) The Enlightenment - the great 'Age of Reason' - is defined as the period of rigorous scientific, political and philosophical discourse that characterised European society during the 'long' 18th century: from the late 17 th century to the ending of the Napoleonic Wars in 1815.
46. (2) There are 12 Schedules in the Constitution of India. One of the first mentions of Schedules was made in the Government of India Act, 1935 where it included 10 Schedules. Later, when the Indian Constitution was adopted in 1949, it consisted of 8 Schedules.
47. (1) Thermostat, device to detect temperature changes for the purpose of maintaining the temperature of an enclosed area essentially constant. In a system including relays, valves, switches, etc., the thermostat generates signals, usually electrical, when the temperature exceeds or falls below the desired value.
48. (3) Pyrene in the commercial name of a fire extinguisher CCl4. It is the only organic compound which in non-inflammable and which is used to extinguish the fire.
49. (1) The urinary bladder is absent in Class Aves that comprises birds. They lack a urinary bladder because the waste product mostly contains uric acid that is, they are uricotelic and excrete the waste along with the feces.
50. (1) Thailand became the first Southeast Asian country to recognize same-sex marriage. Despite its inclusive reputation, Thailand faced decades of challenges passing this law due to conservative societal and governmental values.

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51. (3) A complete the work in $\frac{16}{2} \times 5=40$ days

Ratio of efficiency of A and $B=100: 125=4: 5$
Time taken by B to completes the work $=\frac{40}{5} \times 4=32$ days
C can completes the work in $(32-12)=20$ days
Ratio of efficiency of $C$ and $D=100: 80=5: 4$
Time taken by D to completes the work $=\frac{20}{4} \times 5=25$ days
Now, $(A+B+C+D)$ 's + day work $=\left(\frac{1}{40}+\frac{1}{32}+\frac{1}{20}+\frac{1}{25}\right)=\frac{20+25+40+32}{800}=\frac{117}{800}$
$\therefore \quad A, B, C$ and D complete the total work in $\frac{800}{117}$ days $=6 \frac{98}{117}$ days
52. (1) MP of and article $=\frac{432}{72} \times 100=₹ 600$
$\therefore \quad \mathrm{CP}$ of an article $=\frac{600}{120} \times 100=₹ 500$
53. (2) Let LCM be 5x.

HCF = x
ATQ,
$5 \mathrm{x} \times \mathrm{x}=845$
$5 x^{2}=845$
$\mathrm{x}^{2}=169$
$\mathrm{x}=13$
$\therefore \quad \mathrm{HCF}=13$
54. (1) Tarun invested a sum of ₹25000 in two parts. He earned $11 \%$ p.a. simple interest on part 1 and $10 \%$ p.a. compound interest compounded annually on part B.
Let sum invested on simple interest = ₹x
Sum invested on compound interest $=₹(25000-x)$
ATQ,
$\frac{x \times 11 \times 2}{100}+\left[(25000-x)\left(1+\frac{10}{100}\right)^{2}-(25000-x)\right]=5650$
$\frac{22}{100} x+\left[(25000-x)\left(\frac{121}{100}\right)-(25000-x)\right]=5650$
$\frac{22}{100} x+\left[\frac{25000 \times 121}{100}-\frac{121}{100} x-25000+x\right]=5650$
$\frac{22}{100} x+\left[5250-\frac{21 x}{100}\right]=5650$
$\frac{x}{100}=5650-5250=400$
$\mathrm{x}=40000$
Hence, Sum invested on simple interest $=₹ 40000$

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55. (4) Total of $n$ numbers $=48 \mathrm{n}$

Total increase $=n \times \frac{3}{4} \times 6-n \times \frac{1}{6} \times 6=\frac{9 n}{4}-\frac{3 n}{2}=\frac{3 n}{4}$
New sum of $n$ numbers $=48 n+\frac{3 n}{4}=\frac{195 n}{4}$

$$
\therefore \quad \text { Average }=\frac{195 n}{4 \times n}=48.75
$$

56. (2) $\frac{\cos (\pi-A) \cdot \cot \left(\frac{\pi}{2}+A\right) \cos (-A)}{\tan (\pi+A) \tan \left(\frac{3 \pi}{2}+A\right) \sin (2 \pi-A)}=\frac{-\cos (A) \cdot \tan (A) \cdot \cos (-A)}{\tan (A) \cdot \cot (A) \cdot-\sin (A)}$
$=\frac{\sin (A) \cdot \cos (A)}{\sin (A)}=\cos A$
57. (3) Let the pure milk $=13 x$

Water $=4 \mathrm{x}$
ATQ,
$13 x=2(4 x+45)$
$13 \mathrm{x}-8 \mathrm{x}=90$
$5 x=90$
$\mathrm{x}=18$
$\therefore \quad$ Pure milk $=13 \mathrm{x}=13 \times 18=234$ litres
58. (1) $\left(\frac{9}{16} \div \frac{1}{4}\right.$ of $\left.\frac{1}{5}\right) \times \frac{6}{5}-\frac{1}{4} \times \frac{8}{5} \div \frac{18}{25}+\frac{3}{4}$
$=\left(\frac{9}{16} \div \frac{1}{20}\right) \times \frac{6}{5}-\frac{1}{4} \times \frac{8}{5} \div \frac{18}{25}+\frac{3}{4}$
$=\frac{9}{16} \times \frac{20}{1} \times \frac{6}{5}-\frac{1}{4} \times \frac{8}{5} \times \frac{25}{18}+\frac{3}{4}=\frac{27}{2}-\frac{5}{9}+\frac{3}{4}$
$=\frac{57}{4}-\frac{5}{9}=\frac{513-20}{36}=\frac{493}{36}$
59. (2) Let the ratio of ₹ 1,50 paise and 25 paise coins be $2 \mathrm{x}, 4 \mathrm{x}$ and 5 x respectively.

ATQ,
$2 \mathrm{x}+\frac{4 x}{2}+\frac{5 x}{4}=840$
$2 \mathrm{x}+2 \mathrm{x}+1.25 \mathrm{x}=840$
$5.25 \mathrm{x}=840$
$x=\frac{840}{5.25}=160$
$\therefore \quad$ Number of 50 paise coins $=160 \times 5=800$

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60. (3) Let the rise in water in the tank is x cm .

ATQ,
Total displacement of 260 articles $=$ increase in level of water in tank
$260 \times 5.5 \times 100=56 \times 52 \times x$
( $1 \mathrm{~m}=100 \mathrm{~cm}$ )
$\therefore \quad x=\frac{260 \times 5.5 \times 100}{56 \times 52}=49.10 \mathrm{~cm} \approx 49 \mathrm{~cm}$
61. (1)

$\angle \mathrm{BDC}=90^{\circ}$ (angle made by diameter on perimeter)
In, $\triangle \mathrm{BDC}$

$$
\begin{aligned}
& \angle \mathrm{BCD}+\angle \mathrm{BDC}+\angle \mathrm{DBC}=180^{\circ} \\
& \angle \mathrm{BCD}+90^{\circ}+35^{\circ}=180^{\circ} \\
& \angle \mathrm{BCD}=55^{\circ} \\
& \text { So, } \\
& \angle \mathrm{BAD}=180^{\circ}-\angle \mathrm{BCD} \\
& =180^{\circ}-55^{\circ}=125^{\circ}
\end{aligned} \quad \text { (Angle made by a chord on perimeter) }
$$

62. (2) $x^{4}+\frac{1}{x^{4}}=727$

By adding 2 to both sides,
$\left(x^{2}\right)^{2}+\left(\frac{1}{x^{2}}\right)^{2}+2=727+2$
$x^{2}+\frac{1}{x^{2}}=\sqrt{729}$
By adding 2 to both sides,
$x^{2}+\frac{1}{x^{2}}+2=27+2$
$\left(x+\frac{1}{x}\right)^{2}=29$
Now,
$x-\frac{1}{x}=\sqrt{\left(x+\frac{1}{x}\right)^{2}-4}$
$x-\frac{1}{x}=\sqrt{(29-4)}$
$x-\frac{1}{x}=\sqrt{25}=5$

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63. (2) We know that,
$\frac{\text { Speed } A}{\operatorname{Speed} B}=\sqrt{\frac{T_{B}}{T_{A}}}$
$\frac{45}{\text { Speed }_{B}}=\sqrt{\frac{9}{\frac{64}{9}}}$
$\frac{45}{\text { Speed }_{B}}=\sqrt{\frac{81}{64}}$
$\frac{45}{\text { Speed }_{B}}=\frac{9}{8}$
$\therefore \quad$ Speed of $B=\frac{45 \times 8}{9}=40 \mathrm{~km} / \mathrm{hr}$
64. (1) A received $=7500 \times \frac{70}{100}=₹ 750$

Balance $=7500-750=₹ 6750$
Ratio of there profit $=7500 \times 6: 9400 \times 5: 11000 \times 3=45: 47: 33$
$\therefore \quad$ Profit of $B=\frac{6750}{125} \times 47=₹ 2538$
65. (1)


Let $A B$ be the lighhouse and $C$ and $D$ be the positions of the ships.
Then, $\mathrm{AB}=200 \mathrm{~m}$,
$\angle \mathrm{ACB}=30^{\circ}, \angle \mathrm{ADB}=45^{\circ}$
$\frac{\mathrm{AB}}{\mathrm{AD}}=\tan 45^{\circ}=\frac{1}{\sqrt{3}}$
$\mathrm{AC}=\mathrm{AB} \times \sqrt{3}=200 \sqrt{3} \mathrm{~m}$
$\frac{\mathrm{AB}}{\mathrm{AD}}=\tan 45^{\circ}=1$
$\mathrm{AD}=\mathrm{AB}=200 \mathrm{~m}$
$C D=(A C+A D)=(200 \sqrt{3}+200) m=200(\sqrt{3}+1) m$
$=200(2.73) \mathrm{m}=546 \mathrm{~m}$

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66. (1) Nine-digit number 87605 x 31 y is divisible by 72

A number is divisible by 72 if it is divisible by 8 and 9 both.
Divisibility by 8: A number is divisible by 8 if the number formed by last three digits of that number is divisible by 8 .
Consider: 87605x31y
Number formed by last three digits $=31 \mathrm{y}$
As 312 is divisible by 8 therefore $\mathrm{y}=2$
Now, Resultant number $=87605 x 312$
Divisibility by 9: A number is divisible by 9 if sum of digits of that number divisible by 9 .
Sum of digits of $87605 \times 312=8+7+6+0+5+x+3+1+2=32+x$
If $87605 x 312$ is divisible by 9 therefore $(32+x)$ must be divisible by 9 .
Hence, $x=4$
Now, $3 x-2 y=3(4)-2(2)=12-4=8$
67. (2)

$P Q=P R$
So,
$\angle \mathrm{PQR}=\angle \mathrm{PRQ}=\frac{180^{\circ}-\angle \mathrm{QPR}}{2}=\frac{180^{\circ}-132^{\circ}}{2}=24^{\circ}$
In $\triangle \mathrm{PQS}$,
$\angle \mathrm{PQS}+\angle \mathrm{QSP}+\angle \mathrm{SPQ}=180^{\circ}$
$24^{\circ}+96^{\circ}+\angle \mathrm{SPQ}+\angle \mathrm{SPQ}=180^{\circ}$
$2 \angle \mathrm{SPQ}=30^{\circ}$
So, $\angle \mathrm{PSR}=\angle \mathrm{SPQ}+\angle \mathrm{PQS}=30^{\circ}+24^{\circ}=54^{\circ}$
68. (3) $\mathrm{mx}^{\mathrm{m}}-n x^{\mathrm{n}}=0$
$\mathrm{mx}^{\mathrm{m}}=\mathrm{nx}^{\mathrm{n}}$
$\frac{x^{m}}{x^{n}}=\frac{n}{m}$
$\frac{1}{x^{m}+x^{n}}-\frac{1}{x^{m}-x^{n}}=\frac{1}{x^{n}\left(\frac{x^{m}}{x^{n}}+1\right)}+\frac{1}{x^{n}\left(\frac{x^{m}}{x^{n}}-1\right)}$
$=\frac{1}{x^{n}}\left(\frac{1}{\frac{n}{m}+1}+\frac{1}{\frac{n}{m}-1}\right)=\frac{1}{x^{n}}\left(\frac{1}{\frac{n+m}{m}}+\frac{1}{\frac{n-m}{m}}\right)$
$=\frac{m}{x^{n}}\left(\frac{n-m+n+m}{n^{2}-m^{2}}\right)=\frac{2 m n}{x^{n}\left(n^{2}-m^{2}\right)}$
69. (1) Ratio of present ages of $A$ and $B$ is $7: 8$

Let present age of $A=7 x$
Present age of $B=8 x$
After 6 years,
Age of $A=7 x+6$
Age of $B=8 x+6$
ATQ,
$\frac{7 x+6}{8 x+6}=\frac{8}{9}$
$63 x+54=64 x+48$
$x=6$
Now, C's present age is 10 years more than present age of $A$
Therefore, Present age of $C=7(6)+10=42+10=52$ years
70. (1) Let the given points be
$\mathrm{P}(-3,-14)=\left(\mathrm{x}_{1}, \mathrm{y}_{1}\right)$
$Q(a,-5)=\left(x_{2}, y_{2}\right)$
Using the distance formula,
$\mathrm{d}=\sqrt{\left[\left(\mathrm{x}_{2}-\mathrm{x}_{1}\right)^{2}+\left(\mathrm{y}_{2}-\mathrm{y}_{1}\right)^{2}\right]}$
$P Q=\sqrt{\left[(a+3)^{2}+(-5+14)^{2}\right]}$
$\sqrt{\left[(a+3)^{2}+81\right]}=9$ (From the given)
Squaring on both sides,
$(a+3)^{2}+81=81$
$(a+3)^{2}=0$
$a+3=0$
$a=-3$
71. (2) Let Bhagwat borrow ₹ $x$.

According to the question,
$\mathrm{CI}-\mathrm{SI}$ for 2 years $=\mathrm{P}\left(\frac{r}{100}\right)^{2}$
$16=x\left(\frac{8}{100}\right)^{2}$
$x=\frac{16 \times 10000}{64}=₹ 2500$

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72. (2) Let the number of boys be $x$ and that of girls be $y$.

Then, total score of boys $=71 x$
and total score of girls $=73 y$
$\frac{71 x+73 y}{(x+y)}=71.8$
$71 x+73 y=71.8 x+71.8 y$
$0.8 x=1.2 y \Rightarrow \frac{x}{y}=\frac{1.2}{0.8}=\frac{3}{2}$
$\therefore \quad$ Percentage of girls in the class $=\frac{2}{5} \times 100=40 \%$
73. (3) Percentage of children visiting Mall E = 100-48-40=12\%

Now, $46 \%$ of $36750+60 \%$ of $32450+4170 \times \frac{48}{12}$
Solving by breaking method, we get
$40 \%$ of $36750+6 \%$ of $36750+\frac{3}{5} \times 32450+4170 \times 4=14700+2205+19470+16680$
$=53055$
74. (1) Required difference $=[18+(-4)+28.3+15+(-3.1)+(-18.8)] \times 100=35.4 \times 100=3540$
75. (4) Required percentage $=\left(\frac{(9-8) \times 100}{8}\right) \%=12.5 \%$

## MEANINGS IN ALPHABETICAL ORDER

| Battalion | a large body of troops ready for battle, especially an infantry unit forming part of a brigade typically commanded by a lieutenant colonel | बट T लियम |
| :---: | :---: | :---: |
| Contemporary | living or occurring at the same time | समक ली न |
| Determination | firmness of purpose; resoluteness | दृ ढ़. निश्चय |
| Devout | having or showing deep religious feeling or commitment | ध र्मि क |
| Instability | lack of stability; the state of being unstable | अस्थ थ $\dagger$ रता |
| Motive | a reason for doing something, especially one that is | प्र र रण |
|  | hidden or not obvious |  |
| Passive | accepting or allowing what happens or what others do, | निषित्र $\overline{\text { य }}$ |
|  | without active response or resistance |  |
| Perseverance | persistence in doing something despite difficulty | दृ ढ़ ता |
|  | or delay in achieving success |  |
| Persistence | firm or obstinate continuance in a course of action | हठ |
|  | in spite of difficulty or opposition |  |
| Pleased | feeling or showing pleasure and satisfaction, | प्र स न |
|  | especially at an event or a situation |  |
| Proficient | competent or skilled in doing or using something | प्र वी प |
| Profound | (of a state, quality, or emotion) very great or intense | गहन |
| Reluctant | unwilling and hesitant; disinclined | अनिचछु क |
| Scanty | small or insufficient in quantity or amount | अल प |
| Steady | firmly fixed, supported, or balanced; | निर्यमत |
|  | not shaking or moving |  |
| Trivial | of little value or importance | तु $\begin{array}{r}\text { छ }\end{array}$ |

## SSC MOCK TEST - 444 (ANSWER KEY)

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

76. (3) 'to be performed' (passive) replace 'to perform' (Active)
77. (1) 'to make' replace with 'make'.
78. (2) The correct spelling is 'Contemporary'.
79. (1) The correct spelling is 'Battalion'.
