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## SSC MOCK TEST - 301 (SOLUTION)

1. (B) As,


Similarly,

2. (C) A Chef is a person who cooks food, while a Choreographer is a person who teaches dance.
3. (D) (A) $9 \times 8 \times 7=504$
(B) $8 \times 7 \times 6=336$
(C) $7 \times 6 \times 5=210$
(D) $6 \times 5 \times 4=120 \neq 240$
4. (C) Except Ounce, others are currencies, while Ounce is a unit of weight.
5. (A) Required answer is 4.
6. (D)

7.
(B)



8. (C)


Hence, $T$ is grand-daughter of $P$.
9. (B) As,
$9 \times 2=18$ and $18 \times 4=72$
Similarly,
$12 \times 2=24$ and $24 \times 4=96$
10. (C) As,


Similarly,

11. (A) $\mathrm{k} \underline{\mathbf{k}} \mathbf{l m m} / \underline{\mathbf{l}} \mathrm{mk} \underline{\mathbf{k}} / \mathrm{mmk} \underline{\mathbf{l}} / \mathrm{kkl} \underline{\mathbf{m}} \mathrm{m}$
12. (D) In first column,
$10 \times 8-8^{2}=16$
In second column,
$18 \times 7-7^{2}=77$
In third column,
$29 \times 21-21^{2}=168$
13. (B) $8+7 \times 3-22 \div 11=3 \times 5-8+24 \div 3$

After Changing the signs,
$8+5 \times 3-22 \div 11=3 \times 7-8+24 \div 3$
$8+15-2=21-8+8$
$21=21$
14. (C)
15. (D) 2. Application $\rightarrow$ 1. Scrutiny $\rightarrow$ 3. Interview $\rightarrow$ 4. Job offer $\rightarrow$ 5. Joining
16. (C)


Hence, $A$ is sitting second to the left of E .
17. (A)

I. True
II. True
III. True

Hence, all the conclusions follow.
18. (D)
19. (B)
20. (A) Angle made by hour hand in $\frac{125}{12}$ hours $=\left(\frac{360}{12} \times \frac{125}{12}\right)^{\circ}=312.5^{\circ}$

Angle made by minute hand in 25 minutes $=\left(\frac{360}{60} \times 25\right)^{\circ}=150^{\circ}$
$\therefore$ Reflex angle $=360^{\circ}-\left(312.5^{\circ}-150^{\circ}\right)=360^{\circ}-162.5^{\circ}=197.5^{\circ}$
21. (A)
22. (A)
23. (D)
24. (A)
25. (D)


Rotating above diagram such that South-East becomes North.


Then, West becomes South-East.
26. (D) Argon is an inert gas most commonly found in light bulbs. Argon improves bulb life by avoiding too rapid a degradation of the tungsten filaments.
28. (A) Muvendavelan was NOT a type of sacrifice performed by kings in ancient India to establish their position. Muvendavelan was a famous military officer of the Chola Empire, known for his generous donation to the numerous temples where he had been deployed by the king.
29. (B) The Class Gastropoda (in Phylum Mollusca) includes the groups pertaining to snails and slugs. The majority of gastropods have a single, usually spirally, coiled shell into which the body can be withdrawn.
30. (C) Mount Kyaiktiyo (Kyite Htee Yoe), famous for the huge golden rock perched at its summit, is one of the three most sacred religious sites in Myanmar, along with the Shwedagon Pagoda and the Mahamuni Temple. It is a wellknown Buddhist pilgrimage site in Mon State, Burma.
31. (A) Article 244 (1) of the Indian Constitution defines Scheduled Areas as the areas defined so by the President of India and are mentioned in the fifth schedule of the Constitution. In India, there are 10 states having scheduled areas. Article 244 deals with the Scheduled and Tribal Areas.

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36. (C) Green Freight Corridor-2 is a coastal shipping service. Voyage was launched from Cochin port to Beypore and Azhikkal ports located in north Kerala.
39. (A) The International Kite Festival takes place in specially in Ahmedabad, Gujarat, India. The festival is called Uttarayan.
40. (D) Constitution (101st Amendment) Act, 2016 resulted in the insertion, deletion and amendment of certain Articles of the Constitution.
43. (D) That yellow powder is called pollen, and the stick that holds it is called a stamen. Flowers reproduce when bees or other pollinators carry pollen between flowers.
44. (D) Vitamin A Deficiency impaired dark adaptation of the eyes, which can lead to night blindness, is an early symptom of vitamin A deficiency.
45. (A) Hydrogen has three naturally occurring isotopes: 1 H (protium), 2 H (deuterium), and 3 H (tritium).
46. (B) The pass located at the southern end of the Nilgiri Hills in south India is called the Palghat gap.
47. (D) The Jayakwadi Dam on the Godavari River, which feeds the project, has been at 86 per cent water storage since August last year, allowing the project to work at full steam.
50. (A) ICAI to launch mobile app for Foundation, Inter and Final course students. ICAI will launch mobile app named IAI-BOS for CA students. The mobile app will be launched on July 1, 2021.
51. (A) Water in new mixture $=\frac{5}{9} \times 63+\frac{4}{9} \times 63+15=35+28+15=78$ litres

Total quantity of new mixture $=63+63+15=141$ litres
$\therefore$ Required $\%$ of water $=\left(\frac{78}{141} \times 100\right) \%=55 \frac{15}{47} \%$
52. (B) Let the breadth $=\mathrm{xcm}$

Length of rectangle $=2 \mathrm{x} \mathrm{cm}$
Now, Area $=\mathrm{L} \times \mathrm{B}$
$228=2 \mathrm{x} \times \mathrm{x}$
$\mathrm{x}^{2}=\frac{288}{2}$
$\mathrm{x}=\sqrt{144}$
$\mathrm{x}=12 \mathrm{~cm}$
Diameter of circle $=7 \times 12=84 \mathrm{~cm}$
Radius $=\frac{84}{2}=42 \mathrm{~cm}$
$\therefore$ Area of circle $=\pi \mathrm{r}^{2}=\frac{22}{7} \times 42 \times 42=5544 \mathrm{~cm}^{2}$
53. (D) Pipe A fills the tank in 25 minutes

Pipe B fills the tank in 40 minutes
Pipe C fills the tank in 50 minutes
Let the capacity of the tank be 200 litres.
Pipe A fills the tank in 1 mintue $=\frac{200}{25}=8$ litres

Pipe B fills the tank in 1 mintue $=\frac{200}{40}=5$ litres
Pipe $C$ fills the tank in 1 mintue $=\frac{200}{50}=4$ litres
Pipe $(A+B+C)$ fill the tank in 4 minutes $=4(8+5+4)=68$ litres
Pipe $(B+C)$ fill the tank in next 6 minutes $=6(5+4)=54$ litres
Remaining part of the tank $=200-(68+54)=200-122=78$ litres
A leak empty the tank in 1 minute $=\frac{200}{80}=2.5$ litres
Now time taken by pipe $C$ fill the tank taking into consideration the leak as well
$=\frac{78}{4-2.5}=52$ minutes
$\therefore$ Required total time to taken to fill the tank $=4+6+52=62$ minutes
54. (C) Let the speed of boat in still water be $u \mathrm{~km} / \mathrm{hr}$ and speed of stream be $\mathrm{vkm} / \mathrm{hr}$.

Upstream speed $=u-v=\frac{20}{40} \times 60=30 \mathrm{~km} / \mathrm{hr}$
Downstream speed $=u+v=\frac{30}{50} \times 60=36 \mathrm{~km} / \mathrm{hr}$
Adding equation (i) and (ii), we get
$2 u=66$
$\mathrm{u}=\frac{66}{2}=33 \mathrm{~km} / \mathrm{hr}$
55. (B) $\frac{1}{\mathrm{a}}+\frac{1}{\mathrm{~b}}+\frac{1}{\mathrm{c}}=0$
$\frac{a b+b c+c a}{a b c}=0$
$a b+b c+c a=0$
We know, $a^{3}+b^{3}+c^{3}-3 a b c=(a+b+c)\left(a^{2}+b^{2}+c^{2}-a b-b c-c a\right)$
$32-3 \times 8=4\left(a^{2}+b^{2}+c^{2}\right)-0$
$8=4\left(a^{2}+b^{2}+c^{2}\right)$
$\therefore \quad \mathrm{a}^{2}+\mathrm{b}^{2}+\mathrm{c}^{2}=\frac{8}{4}=2$
56. (A)


Length of direct common tangent $=\sqrt{d^{2}-\left(R_{1}-R_{2}\right)^{2}}=\sqrt{\left(R_{1}+R_{2}\right)^{2}-\left(R_{1}-R_{2}\right)^{2}}$
$=\sqrt{(7+5)^{2}-(7-5)^{2}}=\sqrt{144-4}=\sqrt{140}=2 \sqrt{35} \mathrm{~cm}$

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57. (C) Amount after two years = ₹ 5775

Amount after three years = ₹ 6930
From $2^{\text {nd }}$ year to $3^{\text {rd }}$ year, the amount $₹ 5775$ becomes $₹ 6930$ at $\mathrm{R} \%$ compounded annually in 1 year.
Then,
$6930=5775\left(1+\frac{\mathrm{R}}{100}\right)^{1}$
$\frac{6930}{5775}=1+\frac{\mathrm{R}}{100}$
$\frac{6930}{5775}-1=\frac{R}{100}$
$\frac{6930-5775}{5775}=\frac{R}{100}$
$\frac{\mathrm{R}}{100}=\frac{1155}{5775}$
$\frac{\mathrm{R}}{100}=\frac{1}{5}$
$R=\frac{100}{5}=20 \%$
58. (D) $\sqrt{25} \div 5-16 \div(-64 \div 8)+\sqrt{2601} \div \sqrt{(200+89)}+2^{8} \div 64$
$=\sqrt{25} \div 5-16 \div-8+51 \div 17+256 \div 64$
$=5 \div 5-16 \div-8+3+4$
$=1+2+3+4=10$
59. (B) Let the two numbers be $x$ and $y$.

Now,
$\mathrm{x}: 13:: 13: \mathrm{y}$
$\frac{x}{13}=\frac{13}{y}$
$\mathrm{x}=\frac{169}{\mathrm{y}}$
And, $x: y:: y: 832$
$\frac{x}{y}=\frac{y}{832}$
$\frac{169}{\mathrm{y}^{2}}=\frac{\mathrm{y}}{832}$
$\mathrm{y}^{3}=169 \times 832$
$\mathrm{y}=\sqrt[3]{140608}$
$y=52$

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Put the value of $y$ in equation (i),
$x=\frac{169}{y}=\frac{169}{52}=\frac{13}{4}$
$\therefore \quad$ Required numbers are 52 and $\frac{13}{4}$.
60. (C) A's profit as remuneration in a year $=120 \times 12=₹ 1440$

Let the annual profit be ₹ x .
Then, $₹(x-1440)$ will be distributed between A and B as their share of profit.
Ratio of their profit $=40000: 50000=4: 5$
A's share in the profit $=1440+(x-1440) \times \frac{4}{9}$
$3600=1440+(x-1440) \times \frac{4}{9}$
$3600-1440=\frac{4 x}{9}-640$
$\frac{4 x}{9}=2160+640$
$\frac{4 x}{9}=2800$
$x=\frac{2800 \times 9}{4}=₹ 6300$
$\therefore$ B's share in the profit $=\frac{5}{9} \times(6300-1440)=\frac{5}{9} \times 4860=₹ 2700$
61. (D) Monthly pass cost $=₹ 3552$

Total cost of ticket for 30 days $=160 \times 30=₹ 4800$
Saving $=4800-3552=₹ 1248$
$\therefore$ Required saving $\%=\left(\frac{1248}{4800} \times 100\right) \%=26 \%$
62. (A) Let the selling price of an article be ₹ 300 .

So, $x=₹ 300$
New selling price $=300 \times 66 \frac{2}{3} \%=300 \times \frac{200}{3 \times 100}=₹ 200$
Now, the cost price of an article $=\frac{200}{80} \times 100=₹ 250$
When the article sold at $₹ 300$, the profit $=300-250=₹ 50$
$\therefore \quad$ Profit $=\left(\frac{50}{250} \times 100\right) \%=20 \%$
63. (B) $\frac{\text { Speed }_{\mathrm{P}}}{\text { Speed }_{\mathrm{Q}}}=\sqrt{\frac{\mathrm{T}_{\mathrm{Q}}}{\mathrm{T}_{\mathrm{P}}}}$
$\frac{\mathrm{S}_{\mathrm{p}}}{44}=\sqrt{\frac{9}{13 \frac{4}{9}}}$
$\frac{\mathrm{S}_{\mathrm{p}}}{44}=\sqrt{\frac{9}{\frac{121}{9}}}$
$\frac{\mathrm{S}_{\mathrm{p}}}{44}=\sqrt{\frac{9 \times 9}{121}}$
$\frac{\mathrm{S}_{\mathrm{p}}}{44}=\frac{9}{11}$
$\mathrm{S}_{\mathrm{P}}=\frac{44 \times 9}{11}=36 \mathrm{~km} / \mathrm{hr}$
$\therefore$ Speed of $\mathrm{P}=36 \mathrm{~km} / \mathrm{hr}$
64.
(C) $\frac{4 \cos \left(270^{\circ}+\theta\right) \sin ^{3}\left(90^{\circ}-\theta\right)-4 \cos \left(360^{\circ}+\theta\right) \cos ^{3}\left(90^{\circ}-\theta\right)}{\cos \left(90^{\circ}+\theta\right)}$

$$
\begin{aligned}
& =\frac{4 \sin \theta \cos ^{3} \theta-4 \cos \theta \sin ^{3} \theta}{-\sin ^{4} \theta}=\frac{4 \cos \theta \sin \theta\left(\cos ^{2} \theta-\sin ^{2} \theta\right)}{2 \sin 2 \theta \cos 2 \theta} \\
& =-\frac{2 \sin 2 \theta \cos 2 \theta}{2 \sin 2 \theta \cdot \cos 2 \theta}=-1
\end{aligned}
$$

65. (D)


Side of rhombus $=12 \mathrm{~cm}$
Diagonal BD $=16 \mathrm{~cm}$
$\mathrm{AC}=2 \sqrt{\mathrm{x}} \mathrm{cm}$
Since, diagonals of rhombus bisects each other at perpendicular.
So,
So, $\mathrm{BO}=\frac{16}{2}=8 \mathrm{~cm}$ and $\mathrm{OC}=\frac{2 \sqrt{\mathrm{x}}}{2}=\sqrt{\mathrm{x}} \mathrm{cm}$

In $\triangle \mathrm{BOC}$,
$\mathrm{CD}^{2}=\mathrm{BO}^{2}+\mathrm{OC}^{2}$
$12^{2}=8^{2}+(\sqrt{\mathrm{x}})^{2}$
$x^{2}=144-64=80 \mathrm{~cm}$
$\therefore \quad \sqrt{\mathrm{x}+20}=\sqrt{80+20}=10 \mathrm{~cm}$
66. (B)


Given, $\mathrm{QT}=\mathrm{PQ}$
Area of $\triangle \mathrm{PQT}=128 \mathrm{~cm}^{2}$
$\frac{1}{2} \times \mathrm{PQ} \times \mathrm{QT}=128$
$\mathrm{PQ}^{2}=256$
$\mathrm{PQ}=\sqrt{256}=16 \mathrm{~cm}$
It is also given that,
$\mathrm{PQ}=2 \mathrm{PS}$
$\mathrm{PS}=\frac{\mathrm{PQ}}{2}=\frac{16}{2}=8 \mathrm{~cm}$
Now, Area of trapezium PQRS
$=\frac{1}{2} \times \mathrm{PQ} \times(\mathrm{PS}+\mathrm{QR})$
$=\frac{1}{2} \times 16 \times(8+16+8)$
$=\frac{1}{2} \times 16 \times 32=256 \mathrm{~cm}^{2}$
67. (A)

$=\frac{\left[2 \sin 45^{\circ} \cos \theta+\cos 45^{\circ} \sin \theta\right] \cdot\left[\sin 45^{\circ} \cos \theta-\cos 45^{\circ} \sin \theta\right]}{\cos 2 \theta}$
$=\frac{2\left[\frac{1}{\sqrt{2}}(\cos \theta+\sin \theta) \frac{1}{\sqrt{2}}(\cos \theta-\sin \theta)\right]}{\cos ^{2} \theta-\sin ^{2} \theta}$
$=2 \times \frac{1}{2} \times \frac{\cos ^{2} \theta-\sin ^{2} \theta}{\cos ^{2} \theta-\sin ^{2} \theta}=2$
68. (C) Let the length of each train be x .

Speed of first train $=\frac{x}{24} \mathrm{~m} / \mathrm{s}$

Speed of second train $=\frac{x}{16} \mathrm{~m} / \mathrm{s}$
ATQ,
$\frac{x+x}{\frac{x}{24}+\frac{x}{16}}=\frac{2 x}{\frac{2 x+3 x}{48}}$
$=\frac{2 x}{5 x} \times 48=19.2$ seconds
69. (B)


Let $A B$ is the observer and $C E$ is the tower.
$\mathrm{AB}=\mathrm{DE}=1.4 \mathrm{~m}$
$\mathrm{BD}=\mathrm{AE}=25 \sqrt{3} \mathrm{~m}$
In $\triangle \mathrm{BCD}$,
$\tan 30^{\circ}=\frac{C D}{B D}$
$\frac{1}{\sqrt{3}}=\frac{C D}{25 \sqrt{3}}$
$\mathrm{CD}=25 \mathrm{~m}$
Now, $\mathrm{CE}=\mathrm{CD}+\mathrm{DE}=25+1.4=26.4 \mathrm{~m}$
$\therefore$ Height of tower $=26.4 \mathrm{~m}$
70. (D) $x=\frac{2 \sqrt{6}}{\sqrt{3}+\sqrt{2}} \times \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}-\sqrt{2}}$

$$
\begin{equation*}
x=2 \sqrt{18}-2 \sqrt{12}=6 \sqrt{2}-4 \sqrt{3} \tag{i}
\end{equation*}
$$

$\therefore \frac{x+\sqrt{2}}{x-\sqrt{2}}+\frac{x+\sqrt{3}}{x-\sqrt{3}}$
$=\frac{6 \sqrt{2}-4 \sqrt{3}+\sqrt{2}}{6 \sqrt{2}-4 \sqrt{3}-\sqrt{2}}+\frac{6 \sqrt{2}-4 \sqrt{3}+\sqrt{3}}{6 \sqrt{2}-4 \sqrt{3}-\sqrt{3}}$
[From (i)]
$=\frac{7 \sqrt{2}-4 \sqrt{3}}{5 \sqrt{2}-4 \sqrt{3}}+\frac{6 \sqrt{2}-3 \sqrt{3}}{6 \sqrt{2}-5 \sqrt{3}}$
$=\frac{(84-35 \sqrt{6}-24 \sqrt{6}+60)+(60-15 \sqrt{6}-24 \sqrt{6}+36)}{60-25 \sqrt{6}-24 \sqrt{6}+60}$
$=\frac{240-98 \sqrt{6}}{120-49 \sqrt{6}}=\frac{2(120-49 \sqrt{6})}{120-49 \sqrt{6}}=2$
71. (A) Profit on article $\mathrm{D}=₹ 252$

Cost price of article $D=\frac{252}{18} \times 100=₹ 1400$
Selling price $=1400+252=₹ 1652$
$\therefore \quad$ Marked price of an article $=\frac{1652}{70} \times 100=₹ 2360$
72. (C) Profit on article $\mathrm{F}=₹ 264$

Cost price of article $\mathrm{F}=\frac{264}{12} \times 100=₹ 2200$
Cost price of article C = ₹ 2200
$\therefore$ Profit on article C $=2200 \times \frac{10}{100}=₹ 220$
73. (D) Marked price of article $A=₹ 1530$

Selling price of article $A=\frac{1530}{85} \times 100=₹ 1800$
$\therefore$ Cost price of article $A=\frac{1800}{120} \times 100=₹ 1500$
74. (C) Cost price of article $E=\frac{540}{30} \times 100=₹ 1800$

Now, total cost price of article $\mathrm{E}=1800+540=₹ 2340$
$\therefore \quad$ Selling price of article $\mathrm{E}=2340 \times \frac{125}{100}=₹ 2925$
75. (A) Marked price of article B $=\frac{720}{24} \times 100=₹ 3000$

Selling price of article B $=3000-720=₹ 2280$
Cost price of article $B=\frac{2280}{125} \times 100=₹ 1824$
Profit when no discount is allowed $=3000-1824=₹ 1176$
$\therefore \quad$ Profit $\%=\left(\frac{1176}{1824} \times 100\right) \%=64.47 \% \approx 64 \%$

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## MEANINGS IN ALPHABETICAL ORDER

| Bandit | a robber or outlaw belonging to a gang and | ड T कू |
| :---: | :---: | :---: |
|  | typically operating in an isolated or lawless area |  |
| Battalion | a large body of troops ready for battle, especially | बट I लिय |
|  | an infantry unit forming part of a brigade |  |
|  | typically commanded by a lieutenant colonel |  |
| Contemporary | living or occurring at the same time | का ली न |
| Dacoit | a member of a band of armed robbers | कै त |
| Determination | firmness of purpose; resoluteness | दृ ढ. निश्वय |
| Devout | having or showing deep religious feeling | ध ${ }^{\text {¢ }}$ (क |
|  | or commitment |  |
| Instability | lack of stability; the state of being unstable | अर् थT रता |
| Motive | a reason for doing something, especially one that | प्र` रप T |
|  | is hidden or not obvious |  |
| 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 in spite of difficulty or opposition | हठ |
| Pirate | a person who attacks and robs ships at sea | सु द्र १ ड T कू |
| PleasedProficient | feeling or showing pleasure and satisfaction, | प्र स न |
|  | 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 |
| Robber | a person who commits robbery | लू ट'रा |
| Steady | firmly fixed, supported, or balanced; not | नियमित |
|  | shaking or moving |  |
| Utility | the state of being useful, profitable, or beneficial | उ पय' गिता |

## SSC MOCK TEST - 301 (ANSWER KEY)

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

51. (A)
52. (B)
53. (D)
54. (C)
55. (B)
56. (A)
57. (C)
58. (D)
59. (B)
60. (C)
61. (D)
62. (A)
63. (B)
64. (C)
65. (D)
66. (B)
67. (A)
68. (C)
69. (B)
70. (D)
71. (A)
72. (C)
73. (D)
74. (C)
75. (A)
76. (D)
77. (B)
78. (C)
79. (C)
80. (A)
81. (A)
82. (B)
83. (C)
84. (B)
85. (D)
86. (C)
87. (A)
88. (A)
89. (D)
90. (B)
91. (A)
92. (C)
93. (D)
94. (B)
95. (A)
96. (B)
97. (A)
98. (D)
99. (B)
100. (B)
101. (D) Next to- beside, by, near, close to .
102. (B) This is a conditional sentence - use 'were' instead of 'was' example- Sheetal always treats him as if he were a child.

Replace 'was' with 'were'.
90. (B) The correct spelling is 'Contemporary'.
91. (A) The correct spelling is 'Battalion'.

