

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

### SSC MOCK TEST - 413 (SOLUTION)

- 1. (1) As,  $169 \Rightarrow 1^2 + 6^2 + 9^2 = 118$ And,  $225 \Rightarrow 2^2 + 2^2 + 5^2 = 33$ Similarly,  $144 \Rightarrow 1^2 + 4^2 + 4^2 = 33$
- 2. (3) Action is related to Reaction, in the same way Stimulus is related to Response.
- 3. (3) (1)  $\stackrel{+1}{\longleftarrow}$  (2)  $\stackrel{+1}{\longleftarrow}$  (3)  $\stackrel{+2}{\longleftarrow}$  (4)  $\stackrel{+1}{\longleftarrow}$  P S R Q L O N M A B D C W Z Y X  $\stackrel{+1}{\longleftarrow}$   $\stackrel{+1}{\longleftarrow}$
- 4. (3) Except Tapti, others are East flowing river.
- 5. (2) As, CHIMERA  $\Rightarrow$  3 + 8 + 9 + 13 + 5 + 18 + 1 = 57  $\Rightarrow$  57 × 7 (No. of letters) = 399 Similarly, SPECIES  $\Rightarrow$  19 + 16 + 5 + 3 + 9 + 5 + 19 = 76 × 7 (No. of letters) = 532
- 6. (2) 5 10 20 40 80 **160**+5 +10 +20 +40 +80

  ×2 ×2 ×2 ×2 ×2
- 7. (3) XYZ BCD FGH **JKL**+2 +2 +2
- 8. (4) Charu Bhuvan Fatima

  Deepak Anil
- 9. (3) As,

D U B A I C V A B H

-1

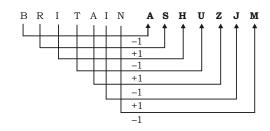
+1

-1

+1

-1

Similarly,



10. (1) As,  $6^3 = 216 \Rightarrow \frac{216}{3} = 72$ 

Similarly,  $9^3 = 729 \Rightarrow \frac{729}{3} = 243$ 

11. (2) l**m**no/nop**q**/p**q**rs/rst**u** 



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### 12. (2) In first column,

$$30 \times 5 - 125 = 25$$

### In second column,

$$40 \times 5 - 140 = 60$$

### In third column,

$$? \times 5 - 160 = 140$$

$$? \times 5 = 140 + 160$$

$$? = \frac{300}{5} = 60$$

13. (4) 
$$26 + 42 \div 7 \times 12 - 14 = -32$$

After Changing the signs - and +,

$$26 - 42 \div 7 \times 12 + 14 = -32$$

$$26 - 6 \times 12 + 14 = -32$$

$$26 - 72 + 14 = -32$$

$$40 - 72 = -32$$

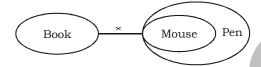
$$-32 = -32$$



- 15. (4) 3. Mukherjee Nagar  $\rightarrow$  1. Delhi  $\rightarrow$  4. North India  $\rightarrow$  2. India  $\rightarrow$  5. Asia
- In numbers 7 will appear 11 times in numbers 7, 17, 27, 37, 47, 57, 67, 77, 87 and 97 (two 16. (3) times in 77) and 9 times in numbers 70, 71, 72, 73, 74, 75, 76, 78 and 79.

Hence it will appear in total 20 times in numbers 1 to 100.





III. False I. True II. False

Hence, only conclusion I follows.

18. (1)

19. (2) L > M.....(i)

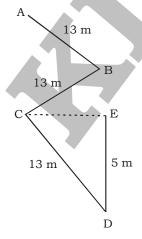
$$L > A > M$$
 .....(ii)

$$M > H > B$$
 .....(iii)

Combine (i), (ii) and (iii),

Hence, B is youngest.

20. (2)





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In ΔCDE,

$$CE = \sqrt{CD^2 - DE^2} = \sqrt{13^2 - 5^2}$$

$$=\sqrt{169-25} = \sqrt{144} = 12 \text{ m}$$

Hence, C is in the West direction of E at a distance of 12 m.

- 21. (2) 22. (2) 23. (1) 24. (1) 25. (2)
- 26. (3) Sutlej River, Ancient Greek Zaradros, Sanskrit Shutudri or Shatadru, longest of the five tributaries of the Indus River that give the Punjab (meaning "Five Rivers") its name. It rises on the north slope of the Himalayas in Lake La'nga in southwestern Tibet, at an elevation above 15000 feet (4600 metres).
- 27. (3) Constitution of India was adopted in 1950, in which article 370 provides that provisions of Indian constitution may apply with some exceptions and modifications in the state of J&K.
- 29. (3) Carbon-14 decays into nitrogen-14 through beta decay.
- 30. (3) The gluteus maximus is the largest muscle in the human body.
- 33. (1) First-ever Indian woman to win an Olympic medal, Karnam Malleswari brought won a bronze medal in the weightlifting 69kg women's category of Sydney Olympics.
- 34. (3) In humans, each cell normally contains 23 pairs of chromosomes, for a total of 46. Twenty-two of these pairs, called autosomes, look the same in both males and females. The 23rd pair, the sex chromosomes, differ between males and females.
- 35. (3) A Chinese research group has initiated the construction of an enormous neutrino telescope in the South China Sea called Tropical Deep-sea Neutrino Telescope (Trident), which is named Hailing (Ocean Bell) in Chinese.
- 36. (4) Mangal Pandey was arrested and sentenced to death after he attacked British officers in Barrackpore on 29 March 1857.
- 37. (4) Nepanagar is an industrial township in Burhanpur district in the Indian state of Madhya Pradesh. Nepanagar is famous for its newsprint paper mill, Nepa Mills Limited (earlier known as The National News Print Ltd).
- 38. (3) Prosperity in the Gupta Empire initiated a period known as the Golden Age of India, marked by extensive inventions and discoveries in science, technology, engineering, art, dialectic, literature, logic, mathematics, astronomy, religion, and philosophy.
- 41. (2) The Excise duty is a tax on production/manufacture of goods within the country. Excise duty is an indirect tax levied on those goods which are manufactured in India and are meant for home consumption. It is a tax on manufacturing, which is paid by a manufacturer, who passes its incidence on to the customers.
- 44. (2) Most resistance wire heating elements usually use nichrome 80/20 (80% Nickel, 20% Chromium) wire, ribbon, or strip. Nichrome 80/20 is an ideal material, because it has relatively high resistance and forms an adherent layer of chromium oxide when it is heated for the first time.
- 46. (2) Lysosomes are known as 'suicidal bags' of the cell because they contain hydrolytic enzymes and these hydrolytic enzymes digest all cell debris."
- 47. (1) Maharana Pratap Sagar, in India, otherwise called Pong Reservoir or Pong Dam Lake was made in 1975, by building the most elevated earthfill dam in India on the Beas River in the wetland zone of the Siwalik Hills of the Kangra region of the province of Himachal Pradesh.
- 50. (4) The Union Education Ministry has recently issued instructions to the States to initiate the implementation of the Automated Permanent Academic Account Registry, abbreviated as 'APAAR.'



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51. (1) Let the total work be 240 units.

Work done by A in 1 day = 
$$\frac{240}{16} = 15$$

Work done by B in 1 day = 
$$\frac{240}{24} = 10$$

Work done by C in 1 day = 
$$\frac{240}{30}$$
 = 8

Units of work done in first 3 days by A, B and C together = 15 + 15 + (15 + 10 + 8) = 63

Units of work done in first 9 days by A, B and C together =  $63 \times 3 = 189$ 

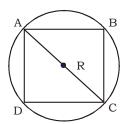
Remaining work = 240 - 189 = 51

Work done by A in next 2 days = 30

Now, remaining work = 51 - 30 = 21

:. Required time = 
$$9 + 2 + \frac{21}{63} = 11\frac{1}{3}$$
 days

52. (2)



Let the side of the square ABCD be S m and radius of garden be R m.

Perimeter of circular garden = 
$$\frac{1254}{9.5}$$
 = 132 m

Radius of circular garden = 
$$\frac{132 \times 7}{22 \times 2}$$
 = 21 m

Diagonal of square = Diameter of garden 
$$\sqrt{2} \times S = 2 \times 21$$

$$S = \frac{42}{\sqrt{2}} m$$

$$\therefore \text{ Area of square} = \left(\text{side}\right)^2 = \left(\frac{42}{\sqrt{2}}\right)^2 = 441 \text{ m}^2$$

53. (4) Let the age of P and R be x years and 2x years respectively.

Q's father age = 
$$(x + 2x) = 3x$$
 years

Age of Q = 
$$\frac{3x}{2}$$
 years

Total ages of P, Q and  $R = 24 \times 3 = 72$  years

$$x + 2x + \frac{3x}{2} = 72$$

$$9x = 72 \times 2$$

$$x = \frac{72 \times 2}{9} = 16$$
 years

:. Age of Q = 
$$1.5x = 1.5 \times 16 = 24$$
 years



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54. (2) Let the Priyesh has ₹ x. Manish has ₹(2400 - x)

$$(2400 - x) \times \frac{5}{16} = x \times \frac{7}{15} + 189$$

$$750 - \frac{5x}{16} = \frac{7x}{15} + 189$$

$$\frac{7x}{15} + \frac{5x}{16} = 750 - 189$$

$$\frac{112x + 75x}{240} = 561$$

$$187x = 561 \times 240$$

$$x = \frac{561 \times 240}{187} = 720$$

Manish has = 2400 - 720 = ₹ 1680

- Required ratio = 720 : 1680 = 3 : 7
- 55. (3) Let the CP of 100 gram of sugar be ₹100.

MP of 100 gram sugar = 
$$100 \times \frac{152}{100}$$
 = ₹152

SP of 100 gram sugar = 
$$152 \times \frac{80}{100}$$
 = ₹121.60

While selling he cheats the customer by giving 12% less in weight. i.e. he sold 88 gram instead of 100 gram.

:. Overall profit% = 
$$\left(\frac{121.60 - 88}{88} \times 100\right)$$
% = 38.18%  $\approx 38$ %

$$56. (4) \qquad \frac{9}{11} + \left\{ \frac{7}{11} - \left( \frac{13}{22} - \frac{1 - \frac{5}{11}}{2} \times \frac{1}{2} \right) \right\} = \frac{9}{11} + \left\{ \frac{7}{11} - \left( \frac{13}{22} - \frac{\frac{11 - 5}{11}}{2} \times \frac{1}{2} \right) \right\}$$

$$=\frac{9}{11}+\left\{\frac{7}{11}-\left(\frac{13}{22}-\frac{6}{22}\times\frac{1}{2}\right)\right\} \ =\frac{9}{11}+\left\{\frac{7}{11}-\left(\frac{26-6}{44}\right)\right\}$$

$$=\frac{9}{11}+\left\{\frac{7}{11}-\frac{20}{44}\right\}=\frac{9}{11}+\left\{\frac{28-20}{44}\right\}$$

$$=\frac{9}{11}+\frac{8}{44}=\frac{36+8}{44}=\frac{44}{44}=1$$

O(x, y) = 
$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$
, where,  $x_1 = -3$ ,  $x_2 = 5$ ,  $y_1 = 4$  and  $y_2 = 6$ 

$$O(x, y) = \left(\frac{-3+5}{2}, \frac{4+6}{2}\right)$$

$$O(x, y) = (1, 5)$$

$$58. (2) \quad \sin^8 x + \cos^8 x - 1 = 0$$

$$\sin^2 x + \cos^2 x - \sin^8 x - \cos^8 x = 0$$

$$\sin^2 x (1 - \sin^6 x) + \cos^2 x (1 - \cos^6 x) = 0$$

$$\sin^2 x (1 - \sin^2 x) (1 + \sin^2 x + \sin^4 x) + \cos^2 x (1 - \cos^2 x) (1 + \cos^2 x + \cos^4 x) = 0$$

$$\sin^2 x \cos^2 x (1 + \sin^2 x + \sin^4 x) + \sin^2 x \cos^2 x (1 + \cos^2 x + \cos^4 x) = 0$$

$$\sin^2 x \cos^2 x (1 + \sin^2 x + \sin^4 x + 1 + \cos^2 x + \cos^4 x) = 0$$

$$\sin^2 x \cos^2 x (3 + \sin^4 x + \cos^4 x) = 0$$

$$\sin^2 x \cos^2 x (3 + 1 - 2\sin^2 x \cos^2 x) = 0$$

$$\sin^2 x \cos^2 x (4 - 2 \sin^2 x \cos^2 x) = 0$$

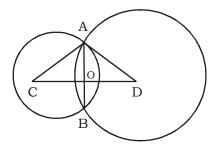
since, 
$$\theta = 0$$
 or  $\frac{\pi}{2}$ 

$$\sin^2 x \cos^2 x \neq 0$$

So, 
$$4 - 2 \sin^2 x \cos^2 x = 0$$

$$2\sin^2 x \cos^2 x = 4$$

$$\sin^2 x \cos^2 x = \frac{4}{2} = 2$$



Here, 
$$AB = 8 \text{ cm}$$

$$OA = OB = 4 cm$$

In ΔAOC,

$$OC^2 = AC^2 - AO^2$$

$$OC = \sqrt{6^2 - 4^2} = \sqrt{36 - 16} = \sqrt{20}$$
 cm

In ΔAOD,

$$OD^2 = AD^2 - AO^2$$

$$OD = \sqrt{8^2 - 4^2} = \sqrt{64 - 16} = \sqrt{48}$$
 cm

Hence, CD = OC + OD = 
$$\sqrt{20} + \sqrt{48}$$

$$= 2\sqrt{5} + 4\sqrt{3} = 2(\sqrt{5} + 2\sqrt{3})$$
cm

### 60. (4) Let the numbers be 83a and 83b respectively.

$$83a + 83b = 1245$$

$$a + b = \frac{1245}{83} = 15$$

Possible value of (a, b) = (11, 4), (7, 8), (2, 13)

Only (7, 8) satisfy the value.

Now, 
$$a = 83 \times 7 = 581$$
 and  $b = 83 \times 8 = 664$ 

$$\therefore \frac{1}{a} + \frac{1}{b} = \frac{1}{581} + \frac{1}{664} = \frac{8+7}{83 \times 7 \times 8} = \frac{15}{4648}$$



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61. (3) Distance = 
$$\frac{60 \times 50}{60 - 50} \times \frac{15 + 20}{60} = \frac{3000}{10} \times \frac{35}{60} = 175 \text{ km}$$

So, the time taken to cover 175 km at 60 km/hr =  $\frac{175}{60} = \frac{35}{12}$  hours

Actual time is 15 minutes earlier than  $\frac{35}{12}$  hours =  $\frac{35}{12} + \frac{15}{60} = \frac{175 + 15}{60} = \frac{190}{60} = \frac{19}{6}$  hours

∴ Speed of car to reach on actual time = 
$$\frac{175}{19} \times 6 = 55\frac{5}{19}$$
 km/hr

62. (1) The rate of interest which is charged = 
$$20 - 20 \times \frac{20}{100} = 16\%$$

The sum after three years =  $30000 \left(1 + \frac{16}{100}\right)^3$ 

$$=30000 \times \frac{116}{100} \times \frac{116}{100} \times \frac{116}{100} = ₹46826.88$$

63. (3) 
$$(24M + 30W) = (4M + 8W) \times 4$$

$$24M + 30W = 16M + 32W$$

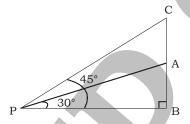
$$8M = 2W$$

$$\frac{M}{W} = \frac{2}{8} = \frac{1}{4}$$

Total work =  $(4 \times 1 + 8 \times 4) \times 4 = 36 \times 4 = 144$ 

$$\therefore$$
 Required number of women =  $\frac{144}{4}$  = 36 women

64. (2)



Let AB is the building and AC is the flag.

$$AB = 15 \text{ meters}$$

$$\angle APB = 30^{\circ} \text{ and } \angle CPB = 45^{\circ}$$

In  $\triangle APB$ ,

$$\tan 30^{\circ} = \frac{AB}{PB}$$

$$\frac{1}{\sqrt{3}} = \frac{15}{PB}$$

$$PB = 15\sqrt{3} \text{ m}$$



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In  $\triangle CPB$ ,

$$\tan 45^{\circ} = \frac{BC}{PB}$$

$$1 = \frac{BC}{PB} = \frac{AC + AB}{PB}$$

$$PB = AB + AC$$

$$15\sqrt{3} = 15 + AC$$

$$AC = 15\sqrt{3} - 15 = 15(\sqrt{3} - 1) \text{ m}$$

65. (4) 
$$x = y = 448$$
 and  $z = 449$ 

$$x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + z)[(x - y)^2 + (y - z)^2 + (z - x)^2]$$

$$=\frac{1}{2}(448+448+449)\left[\left(448-448\right)^{2}+\left(448-449\right)^{2}+\left(449-448\right)^{2}\right]$$

$$=\frac{1}{2}\times1345[0+1+1] = \frac{1}{2}\times1345\times2 = 1345$$

Saving = 
$$100 \times \frac{28}{400} = ₹28$$

Spent on rent = 
$$\frac{72}{9}$$
 × 4 = ₹ 32

ATQ,

₹100 
$$\rightarrow \frac{10800}{32} \times 100 = ₹33750$$

67. (2) 
$$\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = \alpha + \frac{7}{11}\sqrt{5}b$$

$$\frac{(7+\sqrt{5})^2-(7-\sqrt{5})^2}{49-5}=a+\frac{7}{11}\sqrt{5}b$$

$$\frac{49+5+14\sqrt{5}-49-5+14\sqrt{5}}{44}=a+\frac{7}{11}\sqrt{5}\ b$$

$$\frac{28\sqrt{5}}{44} = a + \frac{7}{11}\sqrt{5} b$$

$$\frac{7}{11}\sqrt{5} = a + \frac{7}{11}\sqrt{5}b$$

$$\therefore$$
  $a = 0$  and  $b = 1$ 



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68. (1) Let the amount invested by A be  $\mathbb{Z}$  x.

Ratio of profit =  $x \times 12 : 15000 \times 8 = x : 10000$ 

ATQ,

$$\frac{x}{x + 10000} \times 10500 = 3500$$

$$\frac{x}{x+10000} = \frac{3500}{10500}$$

$$\frac{x}{x+10000}=\frac{1}{3}$$

$$3x = x + 10000$$

$$2x = 10000$$

69. (2) 
$$\left(x + \frac{1}{x}\right)^2 = 4$$

$$x + \frac{1}{x} = 2$$

Squaring both sides,

$$x^2 + \frac{1}{x^2} + 2 \times x \times \frac{1}{x} = 4$$

$$\mathbf{x}^2 + \frac{1}{\mathbf{x}^2} = 2$$

Now,

$$x^3 + \frac{1}{x^3} = \left(x + \frac{1}{x}\right)\left(x^2 + \frac{1}{x^2} - x \times \frac{1}{x}\right)$$

$$= 2 (2 - 1) = 2 \times 1 = 2$$

70. (1) Let the share of A and B be  $\mathbb{Z}$  x and  $\mathbb{Z}$ (5204 – x) respectively.

ATQ,

$$x\left(1+\frac{4}{100}\right)^7 = \left(5204 - x\right)\left(1+\frac{4}{100}\right)^9$$

$$\frac{x}{5204 - x} = \left(1 + \frac{4}{100}\right)^2$$

$$\frac{x}{5204 - x} = \frac{676}{625}$$

$$625x = 676 \times 5204 - 676x$$

$$1301x = 676 \times 5204$$

$$x = \frac{676 \times 5204}{1301} = 2704$$

$$\therefore$$
 B's share = 5204 – 2704 = ₹ 2500



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71. (3) Required number of employees = 
$$80000 \times \frac{10}{100} \times \frac{1}{10} + 80000 \times \frac{12}{100} \times \frac{5}{6}$$
  
=  $800 + 8000 = 8800$ 

72. (3) Number of male employees in department E = 
$$80000 \times \frac{36}{100} \times \frac{8}{9} = 25600$$

Number of employees living in Delhi from department A =  $80000 \times \frac{10}{100} \times \frac{1}{10} = 800$ 

$$\therefore \text{ Required \%} = \left(\frac{25600}{800} \times 100\right)\% = 3200\%$$

73. (2) Total number of male employees working in department B and D together

$$= 80000 \times \left( \frac{22}{100} \times \frac{13}{22} + \frac{20}{100} \times \frac{3}{5} \right)$$

$$=80000 \times \left(\frac{13}{100} + \frac{12}{100}\right)$$

$$=80000 \times \frac{25}{100} = 20000$$

Total number of female employees working together in department A and E together

$$= 80000 \times \left(\frac{10}{100} \times \frac{3}{10} + \frac{36}{100} \times \frac{1}{9}\right)$$

$$=80000 \times \left(\frac{3}{100} + \frac{4}{100}\right)$$

$$=80000 \times \frac{7}{100} = 5600$$

Required number of employees

$$=80000\left(\frac{10}{100}\times\frac{9}{10}+\frac{22}{100}\times\frac{19}{22}+\frac{12}{100}\times\frac{1}{6}+\frac{20}{100}\times\frac{3}{4}+\frac{36}{100}\times\frac{13}{18}\right)$$

$$=80000\left(\frac{9}{100} + \frac{19}{100} + \frac{2}{100} + \frac{15}{100} + \frac{26}{100}\right) = 80000 \times \frac{71}{100} = 56800$$

75. (4) Required number of employees = = 
$$80000 \times \frac{46}{100} = 36800$$



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### MEANINGS IN ALPHABETICAL ORDER

विरोधी Adversary one's opponent in a contest, conflict, or dispute Asylum the protection granted by a nation to someone who शरणस्थल has left their native country as a political refugee Barren (of land) too poor to produce much or any vegetation बांझ Bedlam a scene of uproar and confusion हंगामा प्रतियोगी Contestant a person who takes part in a contest or competition Denounce publicly declare to be wrong or evil आरोप लगाना feeling or expressing revulsion or strong disapproval Disgusted निराश Fertile (of soil or land) producing or capable of producing उपजाक abundant vegetation or crops Fruitful (of a tree, plant, or land) producing much fruit; fertile फलदायक Intruder a person who intrudes, especially into a building घुसेड्नेवाला with criminal intent a person who rides in horse races, especially घुडदौड का सवार Jockey as a profession a person new to or inexperienced in a field नौसिखिया Novice Opponent someone who competes against or fights another in प्रतिद्वंदी a contest, game, or argument; a rival or adversary सेहतगाह Sanatorium an establishment for the medical treatment of people who are convalescing or have a chronic illness a short, slender, sharp-pointed metal pin with a पेच Screw raised helical thread running around it and a slotted head, used to join things together by being rotated so that it pierces wood धार्मिक Virtuous having or showing high moral standards



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# SSC MOCK TEST - 413 (ANSWER KEY)

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

	51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72.	(1) (2) (4) (2) (3) (4) (1) (2) (4) (3) (2) (4) (4) (2) (1) (3) (3) (2) (4) (4) (4) (2) (4) (4) (4) (4) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7			
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	78.	(4)
	79.	(2)
	80.	(1)
	81.	(3)
	82.	(2)
	83.	(4)
	84.	(3)
	85.	(2)
	86.	(4)
	87.	(1)
L	88.	(1)
	89.	(2)
7	90.	(1)
	91.	(2)
	92.	(4)
7	93.	(1)
	94.	(1)
	95.	(2)
	96.	(4)
	97.	(1)
	98.	(2)
	99.	(4)
	100	. (4)

76. (2) 77. (1)

- 76. (2) Replace 'justice' with 'injustice'
- 77. (1) Replace 'a wiser' with 'as wise' (competent- capable, सक्षम)
- 90. (1) The correct spelling of 'Presure' is 'Pressure'.
- 91. (2) The correct spelling of 'Refrence' is 'Reference'.