

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

SSC MOCK TEST - 416 (SOLUTION)

- 1. (3) As, $1627 \Rightarrow (27 16)^2 = 121$ Similarly, $1924 \Rightarrow (24 - 19)^2 = 25$
- 2. (4) Heart is related to Circulation, while Kidney is related to Excretion.
- 3. (1) Except Big, others are related to each other.
- 4. (3) (1) A C D \Rightarrow 1 + 3 = 4
 - $\begin{array}{ccc}
 P & R & S & \Rightarrow & 16 + 18 \neq 19 \\
 \end{array}$

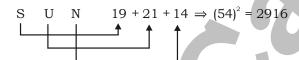




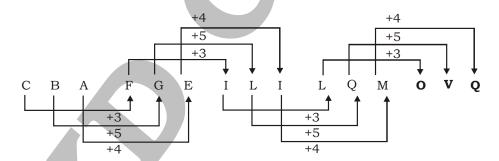
5. (2) As,

M Y
$$13 + 25 \Rightarrow (38)^2 = 1444$$

Similarly,



6. (3)



- 7. (1) 13 17 19 23 25 29 +4 +2 +4 +2 +4
- 8. (1) As, 2013 was not a leap year and 1 January 2013 was Wednesday.

 Then, number of days between 1 January 2013 and 2 January 2014 = 369 days

So, odd days =
$$\frac{369}{7}$$
 \Rightarrow 5 days

:. 5 January 2014 is five days after Wednesday = Monday



9. (3) As,

$$84 + \left(\frac{84}{2} = 42\right) = 126$$

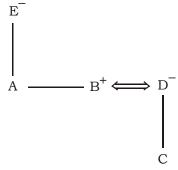
$$126 + \left(\frac{126}{2} = 63\right) = 189$$

Similarly,

$$48 + \left(\frac{48}{2} = 24\right) = 72$$

$$72 + \left(\frac{72}{2} = 36\right) = 108$$

10. (4)



Hence, A's mother E is grand-mother of C.

abbcd/deefg/ghhij 11. (3)

12. (1)
$$4 \Rightarrow 4^3 - 4^2 = 48$$

$$5 \Rightarrow 5^3 - 5^2 = 100$$

$$6 \Rightarrow 6^3 - 6^2 = 180$$

 $24 + 4 - 5 \times 7 \div 9 = -20$ 13. (2)

After Changing the signs,

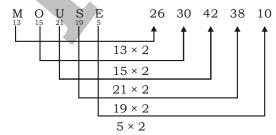
$$24 \div 4 - 5 \times 7 + 9 = -20$$

$$6 - 5 \times 7 + 9 = -20$$

$$6 - 35 + 9 = -20$$

$$-20 = -20$$

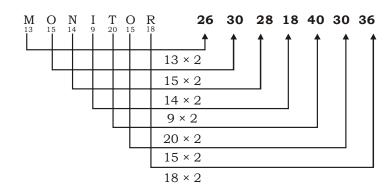
- In these two positions one of the common face having one part in the same position. 14. (4) Therefore according to the rule of dice, there will be four points on the required face.
- 15. (1) 4. Illness \rightarrow 6. Doctor \rightarrow 2. Diagnosis \rightarrow 3. Prescription \rightarrow 1. Medicine \rightarrow 5. Recovery
- 16. (3) As,



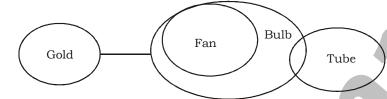


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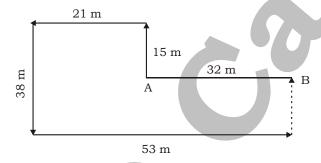
Similarly,







- I. False
- II. False
- III. False
- Hence, no conclusion follows.
- 18. (4)
- 19. (4)
- 20. (2)



Hence, from the above diagram he should walk (38 - 15) = 23 m to the left.

21. (1)



Required value of n = 40 + 15 + 25 = 80

24. (4)

- 22. (2)
- 23. (4)

- 25. (1)
- 26. (1) This effort culminating in 1872 has been popularly labeled as the first population census of India However, the first synchronous census in India was held in 1881. Since then, censuses have been undertaken uninterruptedly once every ten year.
- 28. (4) Tech giant Google Wednesday unveiled a new app 'Bolo' that aims to help children in primary school learn to read in Hindi and English. The free app, which is being launched in India first, uses Google's speech recognition and text-to-speech technology.
- 29. (1) The kelvin is the SI unit of thermodynamic temperature, and one of the seven SI base units. Unusually in the SI, we also define another unit of temperature, called the degree Celsius (°C).



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- 31. (3) Microwaves are used in radars because they can pass through any object.
- 32. (3) 'Jamming' refers to hitting the tennis ball straight to the opponent's body not allowing them to extend the racquet to hit the ball well. Some of the other popular terms associated with lawn tennis are Ace, Back-court, Deuce, Double Fault, etc.
- 33. (3) Mahaweli Ganga, (Sinhalese: "Great Sandy River"), river, central and eastern Sri Lanka. At 208 mi (335 km) in length, it is Sri Lanka's longest river.
- 34. (2) Pandit Budhaditya Mukherjee is an Indian classical sitar and surbahar maestro of the Imdadkhani gharana (school), recognizable by his intricate vocalic playing complemented by spectacular high speed playing.
- 35. (2) The first defence minister of independent India was Baldev Singh Chokkar, who served in Prime Minister Jawaharlal Nehru's cabinet during 1947-52.
- 36. (3) Prime Minister Narendra Modi is set to pay a two-day visit to Dubai this week to attend World Climate Action Summit, which is part of the 28th meeting of the United Nations 'Conference of the Parties' on climate, known as COP28.
- 37. (3) Jaya Pal was a famous ruler from Hindushahi Dynasty, which extended from Punjab to Kabul. He ruled the Hindu Shahi kingdom from 964 to 1001 CE. He was defeated by Mahmud of Ghazni (997-1030) in Ghazni's first attack in the year 1000 AD.
- 38. (2) The upper part of the mantle becomes solid. The outermost layer, called the crust, is solid, too. Together, these solid parts are called the lithosphere. Earth's crust is made up of hard rocks.
- 40. (1) The tear glands (lacrimal glands), located above each eyeball, continuously supply tear fluid that's wiped across the surface of your eye each time you blink your eyelids.
- 42. (4) The correct answer is option 2 i.e. Electrons. The atom has a very basic structure in which the central part is made up of positively charged particles called protons neutrally charged particles called neutrons.
- Maharashtra is known for its Warli folk paintings. Warli is the name of the largest tribe 43. (1) found on the northern outskirts of Mumbai, in Western India. Despite being in such close proximity of the largest metropolis in India, Warli tribesmen shun all influences of modern urbanization.
- 44. (4) The greatest ruler of the Pratihara dynasty was Mihir Bhoja. He recovered Kanauj (Kanyakubja) by 836, and it remained the capital of the Pratiharas for almost a century. He built the city Bhojpal (Bhopal).
- 45. (1) The Speaker shall decide whether a question, or a part thereof, is or is not admissible under these rules and may disallow any question, or a part thereof, when in his opinion it is an abuse of the right of questioning or is calculated to obstruct or prejudicially affect the procedure of the House.
- Gymnosperms are the flowerless plant that produces cones and seeds. The term gymnosperm 46 (1) literally means "naked seed," as gymnosperm seeds are not encased within an ovary.
- Lucknow, in Uttar Pradesh (India), is the centre of chikankari, a skill of more than 200 48. (3) years old. It literally means 'embroidery'.
- 50. (2) The Cairns Group is an interest group of 19 agricultural exporting countries, including Argentina, Australia, Brazil and Canada.
- 51. (1) P = ₹ 15000

R = 12%

T = 6 years

Simple interest = $\frac{15000 \times 12 \times 6}{100}$ = ₹ 10800

Amount = 15000 + 10800 = ₹ 25800



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For person A,

$$R = 10\%$$

$$T = 2 \text{ years}$$

Compound interest =
$$25800 \left(1 + \frac{10}{100}\right)^2 - 25800$$

$$=25800\times\frac{11}{10}\times\frac{11}{10}-25800$$

For person B,

$$R = 15\%$$

$$T = 2 \text{ years}$$

$$SI = \frac{25800 \times 15 \times 2}{100} = 7740$$

Radius =
$$\frac{h}{2}$$
 cm

Volume of glass = Volume of 32000 drops

$$\frac{1}{3}\pi \times \left(\frac{h}{2}\right)^2 \times h = \frac{4}{3}\pi \times \left(\frac{1}{20}\right)^3 \times 32000$$

$$\frac{h^3}{4} = 4 \times \frac{1}{8000} \times 32000$$

$$h^3 = 4 \times 4 \times 4$$

$$\therefore$$
 h = 4 cm

53. (4) Required number of new science book =
$$(120000 + 30000) \times \frac{45}{100} - 120000 \times \frac{40}{100}$$

$$= 150000 \times \frac{45}{100} - 120000 \times \frac{40}{100} = 67500 - 48000 = 19500$$

$$\therefore \text{ Average speed} = \frac{\text{Total distance}}{\text{Total time}} = \frac{100}{\frac{30}{60} + \frac{60}{80} + \frac{10}{120}} = \frac{100}{\frac{1}{2} + \frac{3}{4} + \frac{1}{12}}$$

$$= \frac{100}{\frac{6+9+1}{10}} = \frac{100}{16} \times 12 = \frac{1200}{16} = 75 \text{ km/hr}$$



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55. (1)
$$\frac{1}{\sqrt[3]{9} + \sqrt[3]{3} + 1} = \sqrt[3]{9}a + \sqrt[3]{3}b + c$$

$$\frac{1}{3^{\frac{2}{3}} + 3^{\frac{1}{3}} + 1} = 3^{\frac{2}{3}}a + 3^{\frac{1}{3}}b + c$$

$$\frac{\left(3^{\frac{1}{3}} - 1\right)}{\left[\left(3^{\frac{1}{3}}\right)^{2} - 3^{\frac{1}{3}} + 1^{2}\right]\left(3^{\frac{1}{3}} - 1\right)} = 3^{\frac{2}{3}}a + 3^{\frac{1}{3}}b + c$$

$$\frac{\left(3^{\frac{1}{3}} - 1\right)}{\left[\left(3^{\frac{1}{3}}\right)^{3} - 1^{3}\right]} = 3^{\frac{2}{3}}a + 3^{\frac{1}{3}}b + c$$

$$\frac{3^{\frac{1}{3}}}{2} - \frac{1}{2} = 3^{\frac{2}{3}}a + 3^{\frac{1}{3}}b + c$$

By comparing, we get

$$a = 0$$
, $b = \frac{1}{2}$ and $c = -\frac{1}{2}$

$$5a - 4b + 8c = 5 \times 0 + 4 \times \frac{1}{2} + 8 \times -\frac{1}{2}$$
$$= 2 - 4 = -2$$

56. (2)
$$\frac{\sin A \cdot \tan A}{1 - \cos A} = \frac{\sin A \cdot \frac{\sin A}{\cos A}}{1 - \cos A}$$

$$= \frac{\sin^2 A}{\cos A (1 - \cos A)} = \frac{1 - \cos^2 A}{\cos A (1 - \cos A)}$$

$$=\frac{(1-\cos A)(1+\cos A)}{\cos A(1-\cos A)}=\frac{1+\cos A}{\cos A}$$

$$= \frac{1}{\cos A} + \frac{\cos A}{\cos A} = 1 + \sec A$$

57. (4)
$$5.8 + (7.4 \div 3.7 \times 5) - 6 \times 2 \div 2.5$$

$$= 5.8 + (2 \times 5) - 6 \times 2 \div 2.5$$

$$= 5.8 + 10 - 6 \times 2 \times \frac{1}{2.5}$$

$$= 5.8 + 10 - 4.8$$

$$= 15.8 - 4.8 = 11$$



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58. (3) Let the price of sugar be ₹ 100.

Price of sugar after increased by 25% = $100 \times \frac{125}{100}$ = ₹ 125

A person wants his expenditure increased by only 15%.

So, his expenditure = $100 \times \frac{115}{100}$ = ₹ 115

Required percentage to decrease his expenditure = $\left(\frac{125-115}{125} \times 100\right)$ %

$$=\left(\frac{10}{125}\times100\right)\%=8\%$$

59. (2) LCM of 5, 6 and 8 = 120

$$120 = 2 \times 2 \times 2 \times 5 \times 3 = 2^2 \times 2 \times 5 \times 3$$

To make $2^2 \times 2 \times 5 \times 3$ a perfect square, we need to multiple it with $2 \times 5 \times 3$.

Required number = $2^2 \times 5^2 \times 3^2 \times 2^2 = 3600$

Let the value of B = x60. (1)

Value of A =
$$x \times \frac{125}{100} = 1.25x$$

Value of C =
$$(x + 1.25 x) \times \frac{70}{100} = 2.25x \times \frac{70}{100} = 1.575x$$

ATQ,

Average of A, B and C =
$$\frac{x + 1.25x + 1.575x}{3}$$

$$765 = \frac{3.825 \, x}{3}$$

$$x = \frac{765 \times 3}{3.825} = 600$$

- : Value of A = $600 \times \frac{125}{100} = 750$
- 61. (4) P can complete the work now = $\frac{24}{80} \times 100 = 30$ days

Q can complete the work now = $\frac{18}{40} \times 100 = 45$ days

Let the total work = 90 units

P can do the work in 1 day = $\frac{90}{30}$ = 3 units

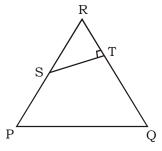
Q can do the work in 1 day = $\frac{90}{45}$ = 2 units

Time taken by P and Q work together = $\frac{90}{3+2}$ = 18 days



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62. (3)



$$\angle STR = 90^{\circ}$$
, ST = 22 cm and RT = 8 cm

$$\tan R = \frac{ST}{RT} = \frac{22}{8} = 2.75$$

$$tan \angle PQR = 2.75$$

Now,
$$\angle PRQ = \angle PQR$$

$$\angle$$
PRQ + \angle TSR = 90°

$$2\angle PRQ + 2\angle TSR = 180^{\circ}$$

$$\angle PQR + \angle QPR + \angle PRQ = 180^{\circ}$$

$$2\angle PRQ + \angle QPR = 180^{\circ}$$

$$2\angle PRQ + \angle QPR = 2\angle PRQ + 2\angle PSR$$

Let the present age of A and B be 8x and 9x years respectively. 63. (1)

$$\frac{8x+9}{9x+9} = \frac{19}{21}$$

$$168 x + 189 = 171 x + 171$$

$$171 \times -168 \times = 189 - 171$$

$$3x = 18$$

$$x = 6$$

Present age of B =
$$9 \times 6 = 54$$
 years

- Present age of C = 54 3 = 51 years
- 64. (3) Let the cost price of goods be ₹ 100.

Marked price =
$$100 \times \frac{130}{100}$$
 = ₹ 130

Selling price of 60% of goods =
$$130 \times \frac{60}{100}$$
 = ₹ 78

Selling price of 40% of goods =
$$130 \times \frac{40}{100} \times \frac{75}{100}$$
 = ₹ 39

$$\therefore \quad \text{Profit\%} = \left(\frac{117 - 100}{100} \times 100\right) \% = 17\%$$

65. (2)
$$x + \frac{1}{x} = \sqrt{7}$$

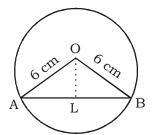
Cubing both sides,

$$\mathbf{x}^3 + \frac{1}{\mathbf{x}^3} + 3 \times \mathbf{x} \times \frac{1}{\mathbf{x}} \left(\mathbf{x} + \frac{1}{\mathbf{x}} \right) = \left(\sqrt{7} \right)^3$$

$$\mathbf{x}^3 + \frac{1}{\mathbf{x}^3} + 3 \times \sqrt{7} = 7\sqrt{7}$$

$$\therefore x^3 + \frac{1}{x^3} = 7\sqrt{7} - 3\sqrt{7} = 4\sqrt{7}$$

66. (1)



We have, AB = $6\sqrt{3}$ cm

$$AL = BL = \frac{6\sqrt{3}}{2} = 3\sqrt{3} \text{ cm}$$

Let
$$\angle AOB = 2\theta$$

Now,
$$\angle AOL = \angle BOL = \theta$$

In ΔAOL,

$$\sin\theta = \frac{AL}{OA} = \frac{3\sqrt{3}}{6} = \frac{\sqrt{3}}{2}$$

$$\theta = 60^{\circ}$$

Now,
$$\angle AOB = 2 \times 60^{\circ} = 120^{\circ}$$

$$\therefore \quad \text{Area of sector AOB} = \frac{\theta}{360^{\circ}} \times \pi r^2$$

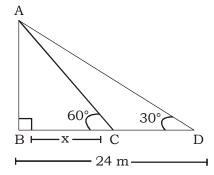
$$= \frac{120}{360} \times \pi \times 6 \times 6 = 12 \pi \text{ cm}^2$$

67. (2) Total capital of A in year =
$$60000 \times 3 + 40000 \times 9$$

Total capital of B in a year = $80000 \times 3 + 100000 \times 6$



68. (3)



Let AB is tower and the lenght of shadow be x m.

In $\triangle ABD$,

$$tan\,30^\circ = \frac{AB}{BD}$$

$$\frac{1}{\sqrt{3}} = \frac{AB}{24}$$

$$AB = \frac{24}{\sqrt{3}} m \qquad \dots$$

In ΔABC,

$$\tan 60^{\circ} = \frac{AB}{BC}$$

$$\sqrt{3} = \frac{AB}{x}$$

$$AB = x\sqrt{3} m \dots (ii)$$

Equating equation (i) and (ii), we get

$$x\sqrt{3} = \frac{24}{\sqrt{3}}$$

$$x = \frac{24}{\sqrt{3} \times \sqrt{3}} = 8 \,\mathrm{m}$$

Hence, the length of shadow is 8 m

69. (3)
$$(20 - x) : (37 - x) : (54 - x) : (105 - x)$$

$$\frac{20 - x}{37 - x} = \frac{54 - x}{105 - x}$$

$$2100 - 20x - 105x + x^2 = 1998 - 37x - 54x + x^2$$

$$2100 - 125x = 1998 - 91x$$

$$34x = 102$$

$$x = \frac{102}{34} = 3$$

$$\therefore$$
 Mean proportion between $(5x + 1)$ and $(25x + 6)$

$$= \sqrt{(5 \times 3 + 1)(25 \times 3 + 6)} = \sqrt{16 \times 81} = 36$$



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70. (4) The last digit in the expansion of $(2457)^{754}$ is depend on value of 7

When 7 raise to power 1, last digit is 7

When 7 is raised to power 2, last digit is 9

When 7 is raised to power 3, last digit is 3

When 7 is raised to power, last digit is 1

So, it repeats its last digit after every power multiple of 4 and the process continues like

When 7 raise to power 5, last digit is 7

When 7 raise to power 6, last digit is 9

When 7 raise to power 7, last digit is 3

When 7 raise to power 8, last digit is 1

So, divide the power by 4, $\left(\frac{754}{4}\right)$, remainder is 2

Hence, last digit is decided by power 2, i.e. 9

71. (1) Total deduction = $24800 \times \frac{10}{100} + 4540 = 2480 + 4540 = ₹7020$

∴ Net salary = 24800 + 32600 - 7020 = 57400 - 7020 = ₹50380

72. (3) Basic salary and total allowance of Anil = 30850 + 5250 = ₹ 36100

Let the basic salary be $\mathbf{\xi}$ x.

Total allowance = ₹ (x + 5000)

ATQ,

$$x + x + 5000 = 36100$$

$$2x = 31100$$

$$x = \frac{31100}{2} = 715550$$

- ∴ Total allowance = 15550 + 5000 = ₹ 20550
- 73. (2) Total deductions = $19200 \times \frac{10}{100}$ = ₹ 1920
 - ∴ Other deductions of Sunil = $\frac{1920}{20} \times 13 = ₹ 1248$
- 74. (4) Basic salary of Sunil = ₹ 19200

Basic salary of Ramendra = ₹ 18400

- :. Required more% = $\left(\frac{19200 18400}{18400} \times 100\right)$ % = 4.34% ≈ 4 %
- 75. (2) Provident Fund deduction = 6500 5400 = ₹ 1100

Basic salary of Tara = $\frac{1100}{10}$ × 100 = ₹ 11000

∴ Net salary of Tara = 11000 + 38500 - 6500 = 49500 - 6500 = ₹43000



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MEANINGS IN ALPHABETICAL ORDER

Absurd unreasonable, illogical, or inappropriate बेतुका

Annihilate destroy utterly सर्वनाश करना

Antagonism active hostility or opposition सक्रिय शत्रुता या विरोध

Aversion a strong dislike or disinclination ঘূ্দা

Bothersome causing irritation or annoyance तंग करने वाला

Emphasis special importance, value, or prominence किसी चीज को दिया जाने

given to something वाला विशेष महत्त्व, मूल्य

या प्रमुखता

Ethos the characteristic spirit of a culture, era, प्रकृति

or community as manifested in its beliefs and

aspirations

Exaggerate overstate or overemphasize बढ़ा चढ़ाकर कहना

Exhilarate make (someone) feel very happy, animated, or elated खुश

Idiotic very stupid मूर्खतापूर्ण

Ignorance lack of knowledge or information স্থান

Initiate cause (a process or action) to begin आरंभ करना

Innocuous not harmful or offensive हानि न करने वाला

Inoffensive not objectionable or harmful अनापत्तिजनक, स्वीकार्य

Intriguing arousing one's curiosity or interest; fascinating दिलचस्प

Lethargy a lack of energy and enthusiasm सुस्ती, आलस्य

Mundane lacking interest or excitement; dull বৰাক

Naïve (of a person or action) showing a lack of निष्कपट

experience, wisdom, or judgment

Obliterate wipe out मिटाना

Onslaught a fierce or destructive attack हमला

Overreach the act of doing more than your authority allows अपने अधिकार का अति

प्रयोग

Praiseworthy deserving approval and admiration सराहनीय

Relevant closely connected or appropriate to the प्रासंगिक

matter at hand

Revive restore to life or consciousness पूर्नजीवित करना

Scanty small or insufficient in quantity or amount थोड़ा

Swabbing wash with a mop झाडू से साफ करना

Taboo a social or religious custom prohibiting पाबंदी

or forbidding a particular practice

Triviality lack of seriousness or importance; insignificance महत्वहीनता, तुच्छता

insignificance



SSC MOCK TEST - 416 (ANSWER KEY)

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

- 76. (3) Since, the sentence is in present tense, the 'if clause' should also be in present tense. Change 'placed' into 'place'.
- 77. (2) Change 'have' into 'has', as it should follow the subject of the sentence 'the popular belief'.
- 85. (2) 'Hang by a thread' is an idiom which means 'to be in a very dangerous situation or state; to be very close to death, failure, etc.'
- 86. (2) 'Call out' means 'to publicly criticize or fault someone or something.'
- 89. (3) The correct spelling of 'Intigrate' is 'Integrate', 'Exhilerate' is 'Exhilarate' and 'Exaggarate' is 'Exaggerate'.
- 90. (1) The correct spelling is 'Occasionally'.