KN Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09 SSC MOCK TEST - 446 (SOLUTION) 1. (2) Elephant breathe through Trunk and Fish breathe through his Gill. Similarly, Kangaroo breathe through his pouch. 2. As,  $23 \times (2^2 + 3^2) = 299$ (1) Similarly,  $45 \times (4^2 + 5^2) = 1845$ 3. Except Lawyer, others are related to politics. (1)4. (1)Except 593, the sum of digits of other number is 13. 5. (3) As, R E T A I L E R  $\Rightarrow$  18 + 5 + 20 + 1 + 9 + 12 + 5 + 18 = 88  $\Rightarrow$  88 - 8 = 80 (No. of letters) And, M A N A G E R  $\Rightarrow$  13 + 1 + 14 + 1 + 7 + 5 + 18 = 59  $\Rightarrow$  59 - 7 = 52 (No. of letters) Similarly, P E R M I S S I O N  $\Rightarrow$  16 + 5 + 18 + 13 + 9 + 19 + 19 + 9 + 15 + 14 = 137  $\Rightarrow$  137 – 10 = 127 (No. of letters) 1295 1405 1537 1693 1875 6. (1) \_\_Î | ŤΙ  $+11^{2} - 11 + 12^{2} - 12 + 13^{2} - 13 + 14^{2} - 14$ 7. (2) +2 +2+3+3+38. (4) As,  $217 + (2 \times 1 \times 7) = 231$  $231 + (2 \times 3 \times 1) = 237$ Similarly,  $935 + (9 \times 3 \times 5) = 1070$  $1070 + (1 \times 0 \times 7 \times 0) = 1070$ 9. (3) x<u>u</u>ml<u>v</u>/xv<u>n</u>lv/<u>x</u>wolv/xx<u>p</u>lv 10. (1) After 6 years, sum of ages of A, B and C will be 62 years. Thus, at present sum of their ages =  $62 - (6 \times 3) = 44$  years Before 3 years, sum of ages of B and C = 19 years At present sum of their ages =  $19 + (3 \times 2) = 25$  years Thus, present age pf A = 44 - 25 = 19 years 11. (4) 12. (3) In the first row,  $(17 + 42) - 25 = 34 \implies 3 \times 4 = 12$ In the second row,  $(19 + 61) - 44 = 36 \implies 3 \times 6 = 18$ In the third row,  $(27 + 63) - 35 = 35 \implies 5 \times 5 = 25$ 13. (1)  $156 \div 13 + 12 - 14 \times 25 = 350$ Change + and -,  $156 \div 13 - 12 + 14 \times 25 = 350$  $12 - 12 + 14 \times 25 = 350$ 0 + 350 = 350

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1. Story  $\rightarrow$  5. Shooting  $\rightarrow$  2. Telecast  $\rightarrow$  3. Viewers  $\rightarrow$  4. Feedback

350 = 350

14. (1)

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Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 29. (3) Andes mountain ranges are the longest mountain ranges in the world having an approximate length of 7000km. They stretch from north to south through seven countries, along the west coast of the continent South America. 30. (3) The Garo, Khasi and Jaintia hills were formed in the same age as the Malwa Plateau. The Garo, Khasi and jaintia are part of the Peninsular India. The Peninsular plateau continues far eastward from Rajmahal hills into north-east as the Shillong plateau, the gap between them is known as the Rajmahal-Garo gap. Prime Minister Narendra Modi congratulated Dick Schoof on becoming the new Prime 36. (1) Minister of the Netherlands and expressed eagerness to strengthen India-Netherlands relations. Schoof, 67, a former head of the Dutch Secret Service, was sworn in by King Willem-Alexander. 37. (1) Analog computer, any of a class of devices in which continuously variable physical quantities, such as electrical potential, fluid pressure, or mechanical motion, are represented in a way analogous to the corresponding quantities in the problem to be solved. These Awards are conferred by the President of India at ceremonial functions which are 40. (3) held at Rashtrapati Bhawan usually around March/ April every year. For the year 2023, the President has approved conferment of 106 Padma Awards including 3 duo cases (in a duo case, the Award is counted as one) as per list below. 41. (4) Trophies related to lawn tennis are: Barna Bellack Cup, Davis Cup, Grand Prix, Jaylaxmi Cup (Women's), Rajendra Prasad Cup, Rajkumar Cup (Junior boys), Rajkumari Cup (Junior girls), Ramanujan Trophy, Thant Cup, Travancore Cup (Women's), Wightman Cup and Wimbledon Trophy. 43. (1) Environmental organizations recently urged the Forest department to maintain transparency in a project to extract Senna spectabilis from Wayanad Wildlife Sanctuary. 47. (2) Sound waves in air and any fluid medium are longitudinal waves because particles of the medium through which the sound is transported vibrate parallel to the direction that the sound waves moves. 48. (3) When ants bite, they inject formic acid into the muscle tissue. This formic acid is found in the mandible of ants. 50. (1) For the first time, the Taliban participated in the United Nations Conference on Afghanistan, held in Doha on 30 June and 1 July 2024.  $\frac{4\cos(270^\circ+\theta)\sin^3(90^\circ-\theta)-4\cos(360^\circ+\theta)\cos^3(90^\circ+\theta)}{\cos(90^\circ+4\theta)} = \frac{4\sin\theta\cos^3\theta-4\cos\theta\sin^3\theta}{-\sin4\theta}$ 51. (2)  $\frac{4\cos\theta\sin\theta\left(\cos^2\theta - \sin^2\theta\right)}{2\sin2\theta\cos2\theta} = \frac{2\sin2\theta\cos2\theta}{2\sin2\theta\cos2\theta} = -1$ 52. (1)  $\cap$  $\angle QPR = 80^{\circ}$  $\angle QOR = 90^{\circ} + \frac{1}{2} \angle QPR = 90^{\circ} + 35^{\circ} = 40^{\circ} = 130^{\circ}$ Ph: 09555108888, 09555208888









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Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 66. (4) Original rate = ₹x per lemon New rate =  $x \times \frac{120}{100} = \underbrace{\notin}{5} \frac{6x}{5}$ ATQ,  $\frac{48}{x} - \frac{48 \times 5}{6x} = 4$  $\frac{48}{x} - \frac{40}{x} = 4$  $\frac{8}{x} = 4$  $\mathbf{x} = 2$ New rate =  $\frac{6 \times 2}{5} = \underbrace{12}{5}$  per lemon Rate of lemon per dozen =  $\frac{12}{5} \times 12 = ₹28.80$ *:*. Volume of the hemispherical ditch =  $\frac{2}{3}\pi r^3 = \frac{2}{3}\pi \times (15)^3 = 2250\pi m^3$ 67. (1) Volume of the cylindrical ditch = Volume of each dug out =  $\pi r^2 h = \pi \times 8^2 \times 4 = 256 \pi m^3$ So, extraction of hemispherical ditch by the earth dug out from the cylindrical ditch  $=\frac{256\pi}{2250\pi}=\frac{128}{1125}$ 68. (2)  $\sin 17^\circ = \frac{x}{x}$  $\cos 17^{\circ} = \sqrt{1 - \sin^2 17^{\circ}} = \sqrt{1 - \frac{x^2}{v^2}} = \sqrt{\frac{y^2 - x^2}{v^2}} = \frac{\sqrt{y^2 - x^2}}{v} = \sec 17^{\circ} = \frac{y}{\sqrt{y^2 - x^2}}$  $\sin 73^\circ = \sin(90^\circ - 17^\circ) = \cos 17^\circ$  $\therefore \quad \sec 17^{\circ} - \sin 73^{\circ} = \frac{y}{\sqrt{y^2 - x^2}} - \frac{\sqrt{y^2 - x^2}}{y} = \frac{y^2 - y^2 + x^2}{\sqrt{y^2 - x^2}} = \frac{x^2}{\sqrt[y]{y^2 - x^2}}$ Slope of line passing through points (4, -2) and (-3, 5)  $= \frac{5+2}{-3-4} = \frac{7}{-7} = -1$ 69. (2) Slope of two parallel lines is always equal. Slope of the line parallel to the line having slope -1 = -170. (4) Given, Investment of P = ₹28000 Duration of P = 8 months Hence, Total investment amount of P = ₹28000 × 8 Investment of Q = ₹42000 Duration of Q = 12 months Hence, Total investment amount of Q = ₹42000 × 12 Ratio of profits = Ratio of investments = 28000 × 8 : 42000 × 12 = 4 : 9 Given, Total profit = ₹21125 Profit of A =  $\frac{4}{13} \times 21125$  = ₹6500 ÷. Ph: 09555108888, 09555208888

Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 Side of the square =  $\sqrt{196}$  = 14 cm 71. (3) Radius of circle =  $2 \times 14 = 28$  cm Length of rectangle =  $2 \times 2 \times 28 = 112$  cm Breadth =  $\frac{112}{2}$  = 56 cm Perimeter = 2 (112 + 56) = (2 × 168) = 336 cm 72. (4) Let the ninth person spent  $\mathfrak{F} x$ . Then, average of all the nine =  $\frac{12 \times 8 + x}{9} = \frac{96 + x}{9}$ Given,  $x = \frac{96 + x}{9} + 8$ 9x = 96 + x + 728x = 168x = 21Hence, total money was spent by all of them = 96 + 21 = ₹117Total number of diabetic men in 2014 = 66000 ×  $\frac{35}{100}$  = 23100 73. (3) Total number of diabetic women in 2014 = 54000 ×  $\frac{25}{100}$  = 13500 Total number of diabetic children in 2014 =  $16000 \times \frac{12.5}{100} = 2000$ Required average =  $\frac{23100 + 13500 + 2000}{3} \approx 12867$ 74. (1) Required% =  $\left(\frac{37.5}{62.5} \times 100\right)$ % = 60% 75. (1) Required average =  $\frac{3.34 + 5.83 + 1.69}{3}$  = 3.62 Lac

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## **MEANINGS IN ALPHABETICAL ORDER**

Benediction	the utterance or bestowing of a blessing, especially at the 3		
	end of a religious service		
Benevolence	the quality of being well meaning; kindness	भलाई	
Besmirch	damage the reputation of (someone or something) in the	गंदा करना	
	opinion of others		
Commemorate	recall and show respect for (someone or something)	मनाना	
Complicity	the state of being involved with others in an illegal	सहापराध	
	activity or wrongdoing		
Condemnation	the expression of very strong disapproval; censure	निंदा	
Derision	contemptuous ridicule or mockery	उपहास	
Dispassionate	not influenced by strong emotion, and so able to be	आवेगहीन	
	rational and impartial		
Enduring	continuing or long-lasting	टिकाऊ	
Ethnology	the study of the characteristics of various peoples	मानव जाति विज्ञान	
	and the differences and relationships between them		
Fervent	having or displaying a passionate intensity	उत्सुक	
Genealogy	a line of descent traced continuously from an ancestor	वंशावली	
Impudent	not showing due respect for another person; impertinent	दिलेर	
Manoeuvre	a movement or series of moves requiring skill and care	पैंतरेबाज़ी	
Stratagem	a plan or scheme, especially one used to outwit an	कपट	
	opponent or achieve an end		
Subdued	(of a person or their manner) quiet and rather	मातहत	
	reflective or depressed		
Subterfuge	deceit used in order to achieve one's goal	छल	
Trite	(of a remark, opinion, or idea) overused and consequently	घिसे-पिटे	
	of little import; lacking originality or freshness		
Vagueness	lack of certainty or distinctness	अस्पष्टता	

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## SSC MOCK TEST - 446 (ANSWER KEY)

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

- 76. (2) If two events happen to be in past one after another, the first action is written in Past Perfect Tense. Change 'have' into 'had'.
- 77. (2) Replace 'so' by 'as'. 'As ..... as' is a correct phrase.
- 86. (4) The subject of the sentence, a highly improved variety is singular.
- 87. (1) 'Ask' is used to took for an answer, explanations, etc.