

KD Campus Pvt. Ltd

1997, OUTRAM LINE, KINGSWAY CAMP. DELHI: 110009

SSC MOCK TEST - 231 (SOLUTION)

- 1. (C) As, $17 \times 6 = 102$ Similarly, $23 \times 6 = 138$
- 2. (C) Player is a member of team whereas minister is a member of council.

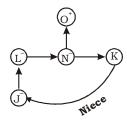
Opposite letter

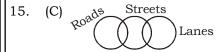
- 3. (D) As, DFIM: WURN
 Opposite letters
 Similarly, GKNP: TI
- 4. (B) As, 8 + 15 + 9 = 32 Similarly, 4 + 16 + 12 = 32
- 5. (B) As, $(3 + 5) \times 2 = 16$ Similarly, $(7 + 9) \times 2 = 32$
- 6. (C) As, C L E A N : 14 1 5 12 3

 Similarly, J O K E : 5 11 15 1
- 7. (D) Sickness → Hospital → Doctor → Medicine store → Recovery → Home
- 8. (D)
- 9. (A) +1 +1 +1 +1 BOP DPN FOL HRJ **JSH** +2 -2 +2 -2 +2 -2 +2 -2
- 10. (D) 7 11 18 29 **47** 76
- 11. (A) S.P = ₹4140, P% = 15 $CP = 4140 \times \frac{100}{115} = ₹3600$

New S.P = 3600 × 1.25 = ₹4500

- 12. (B) 29
- 13. (C) $60 \times 10 \div 40 + 6 5$ After changing the signs, $\Rightarrow 60 \div 10 + 40 - 6 \times 5$ $\Rightarrow 6 + 40 - 30 = 16$
- 14. (C) J 3 L 9 N 30 5 K





- 16. (B) As, $4 * 5\% 3 = (4 \times 5)^3$ = 8000And, $2*3\% 2 = (2 \times 3)^2 = 36$ Similarly, $4*3\% 3 = (4 \times 3)^3 = 1728$
- 17. (A) Required number of pens = 19 + 4 = 23
- 18. (B) 4 1 3 4 2 6

If 5 is at bottom, then 4 is at the top.

- 19. (C) As, $(19 + 20) \times 2 = 78$ $(25 + 47) \times 2 = 144$ Similarly, $(16 + 13) \times 2 = 58$
- 20. (B) Position of Palak from right end = 74 (27 + 7) + 1 = 41
- 21. (C) SALTY
- 22. (C)
- 23. (B)
- 24. (D) 25. (D)
- 26. (D) Middle East Countries Iran, Israel, Turkey, Saudi Arabia, Syria, UAE, Lebanon, Qatar, Palestine, Kuwait, Oman, Yemen, Bahrain and Cyprus. Somalia is a East African country.
- 27. (A) Objectives: Promoting appropriate practice, care and institutional service utilization during pregnancy, delivery and lactation, encouraging the women to follow (optimal) nutrition and feeding practices, including early and exclusive breastfeeding for the first six months; and providing cash incentives for improved health and nutrition to pregnant and lactating mothers.

Sukanya Samriddhi Scheme encourages parents to build a fund for the future education and marriage expenses for their female child. It was launched on 22 January 2015 as a part of the Beti Bachao, Beti Padhao campaign.

Swadhar Greh Scheme for rehabilitation of women in difficult circumstances. The scheme covers women who are deserted and without any social and economic support, women victims of domestic violence, family tension and natural disaster.

28. (B) A fixed exchange rate(pegged exchange rate) is a type of exchange rate regime in which a currency's value is fixed or pegged by a monetary authority against the value of another currency.

The real exchange rate is the relative price of foreign goods in terms of domestic goods.



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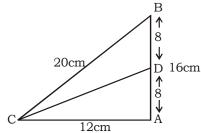
- 29. (C) Sashastra Seema Bal - Indo - Nepal
- Border and Indo-Bhutan Border. 30. (A) The South Asian Free Trade Area (SAFTA) is an agreement reached on January 6, 2004, at the 12th SAARC summit in Islamabad, Pakistan. It created a free trade area of 1.6 billion people in Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka to reduce customs duties of all traded goods to zero by the year 2016. It came into force on January 1, 2006.
- 34. (A) The author of the novel 'An Affair Downstairs' is Sherri Browning Erwin.
- 37. (B) Trees and animals were worshipped by the Harappans.
- 40. (C) It is also levied on State Government.
- 41. (A) Variola Virus - Smallpox Cytomegalo Virus - STD disease Ebola virus that causes severe bleeding, organ failure and can lead to death.
- 43. (D) Blue to Red - Acid Red to Blue - Base
- 45. (A) Facilitation, the process by which an organism profits from the presence of another, such as nurse plants that provide shade for new seedlings or saplings.

Guttation - the secretion of droplets of water from the pores of plants.

- 46. (B) F = ma = m(v - u)/t = 4(25 - 15)/5 = 8
- 50. (A) Bombay Stock Exchange was established on 9 July 1875. Its chairman is Vikramajit Sen. Its MD and CEO is Ashishkumar Chauhan.
- 51. (B) A.T.Q,

$$\frac{104}{100} \times \frac{104}{(104+100)} \times x = 70560$$

$$\Rightarrow \frac{26}{25} \times \frac{26}{51} \times x = 70560$$
$$\Rightarrow x = ₹133083$$



$$CD = \sqrt{12^2 + 8^2}$$

$$CD = \sqrt{144+64} = 4\sqrt{13} \text{ cm}$$

53. (D)
$$7\frac{1}{2} \times \left(3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}\right) +$$

$$\left[11 - \left(\frac{5}{8} + 3 - 1\frac{1}{4}\right)\right] \div 5\frac{3}{4} - 5 \div 5 \times 5 \text{ of } 5 \div$$

$$\Rightarrow \frac{15}{2} \times \left[\frac{16}{5} \div 24 \right] + \left[11 - \left(\frac{5}{8} + 3 - \frac{5}{4} \right) \right] \div$$

$$5\frac{3}{4} - 5 \div 5 \times 25 \div 25$$

$$\Rightarrow \frac{15}{2} \times \frac{2}{15} + \left[11 - \frac{19}{8}\right] \div \frac{23}{4} - 1 \times 1$$

$$\Rightarrow 1 + \frac{69}{8} \div \frac{23}{4} - 1$$

$$\Rightarrow \frac{69}{8} \times \frac{4}{23} = \frac{3}{2} = 1\frac{1}{2}$$

- (A) $\cos^2\theta 3\cos\theta + 2 = \sin^2\theta$ 54.
 - $\Rightarrow \cos^2\theta 3\cos\theta + 2 = 1 \cos^2\theta$
 - $\Rightarrow 2\cos^2\theta 3\cos\theta + 1 = 0$
 - \Rightarrow $(2\cos\theta 1)(\cos\theta 1) = 0$

$$2\cos\theta - 1 = 0$$
, $\cos\theta - 1 \neq 0$

$$\cos\theta = \frac{1}{2} \Rightarrow \theta = 60^{\circ}$$

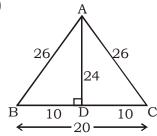
Now, $2\csc\theta + 4\cot\theta$

$$\Rightarrow$$
 2cosec60° + 4 cot60°

$$\Rightarrow 2 \times \frac{2}{\sqrt{3}} + 4 \times \frac{1}{\sqrt{3}}$$

$$\Rightarrow \frac{4}{\sqrt{3}} + \frac{4}{\sqrt{3}} = \frac{8}{\sqrt{3}} = \frac{8\sqrt{3}}{3}$$

55. (D)



Given that, BC = 20cm and

$$AD = 24cm$$

In ∆ABD

$$AB^2 = BD^2 + AD^2$$

$$\Rightarrow$$
 AB² = 10² + 24²

$$\Rightarrow$$
 AB² = 100 + 576 \Rightarrow AB = 26

$$\therefore$$
 AB = AC = 26 cm



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56. (C) Efficiencies of A, B and C = 3:5:1

Total work = $10 \times (3 + 5 + 1) = 90$

Work done by A and B in 6 days

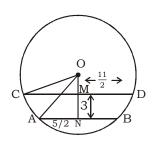
$$= 6 \times (3 + 5) = 48$$

Remaining work = 90 - 48 = 42

Remaining work done by $C = \frac{42}{1} = 21$

days

57. (B) ATQ,



Let OM = x cm

$$(OA)^2 = \left(\frac{5}{2}\right)^2 + (3+x)^2$$

and
$$(OC)^2 = \left(\frac{1}{2}\right)^2 + x^2$$

Now. $OA^2 = OC^2$

$$\Rightarrow \left(\frac{5}{2}\right)^2 + (3+x)^2 = \left(\frac{11}{2}\right)^2 + x^2$$

$$\Rightarrow \frac{25}{4} + 9 + \chi^2 + 6\chi = \frac{121}{4} + \chi^2$$

$$\Rightarrow 6x = \frac{121}{4} - \frac{25}{4} - 9$$

$$\Rightarrow 6x = 15 \Rightarrow x = \frac{5}{2}$$

Radius of a circle

$$=\sqrt{\left(\frac{11}{2}\right)^2 + \left(\frac{5}{2}\right)^2} = \sqrt{\frac{121}{4} + \frac{25}{4}} = \sqrt{\frac{146}{4}}$$

$$=\frac{\sqrt{146}}{2}$$

Diameter of a circle = $2 \times \frac{\sqrt{146}}{2} = \sqrt{146}$

58. (D) Let C.P = 100, S.P = 120 A.T.Q,

$$M.P = 120 \times \frac{100}{80} \times \frac{100}{93.75}$$

M.P = 160

The required percent = 160 - 100

= 60%

59. (B) $\sin^2 30^\circ \cdot \cos^2 45^\circ + 4\tan^2 30^\circ + \frac{1}{2}\sin^2 90^\circ$

$$\Rightarrow \left(\frac{1}{2}\right)^2 \times \left(\frac{1}{\sqrt{2}}\right)^2 + 4 \times \left(\frac{1}{\sqrt{3}}\right)^2 + \frac{1}{2} \times (1)^2 + 2$$

× 0

$$\Rightarrow \frac{1}{4} \times \frac{1}{2} + 4 \times \frac{1}{3} + \frac{1}{2}$$

$$\Rightarrow \frac{1}{8} + \frac{4}{3} + \frac{1}{2}$$

$$\Rightarrow \frac{3+32+12}{24} = \frac{47}{24}$$

60. (B)
$$\frac{7x}{(2x^2+6x-2)}=1$$

On dividing by x in numerator and denominator,

$$\Rightarrow \frac{7}{2x + 6 - \frac{2}{x}} = 1$$

$$\Rightarrow 2x + 6 - \frac{2}{x} = 7 \Rightarrow 2\left(x - \frac{1}{x}\right) = 1$$

$$\Rightarrow x - \frac{1}{x} = \frac{1}{2}$$

Now,
$$x^2 + \frac{1}{x^2} = \left(\frac{1}{2}\right)^2 + 2$$

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

$$\Rightarrow x^2 + \frac{1}{r^2} = \frac{9}{4}$$

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = \frac{9}{4} + 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^2 = \frac{17}{4} \Rightarrow x + \frac{1}{x} = \frac{\sqrt{17}}{2}$$

Now,
$$x^3 + \frac{1}{x^3} \Rightarrow \left(\frac{\sqrt{17}}{2}\right)^3 - 3 \times \frac{\sqrt{17}}{2}$$

$$\Rightarrow \frac{17\sqrt{17}}{8} - \frac{3\sqrt{17}}{2} = \frac{5\sqrt{17}}{8}$$

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(D) A : B = 7 : 12, B : C = 8 : 5

ATQ.,

$$(15 - 14)$$
 units = 856

1 unit = 856

$$\therefore x = (14 + 24 + 15) \times 856$$

$$x = 53 \times 856 = 45,368$$

62. (A) Let 10^{th} number = x

$$9^{th}$$
 number = $x - 3$

 11^{th} number = x + 2

 12^{th} number = x + 3

A.T.Q.,

$$4 \times 53.4 + 4 \times 54.6 + (x - 3) + x + (x + 2) +$$

$$(x + 3) = 55.5 \times 12$$

$$\Rightarrow$$
 213.6 + 218.4 + 4x + 2 = 666

$$\Rightarrow 4x = 232 \Rightarrow x = 58$$

 $\therefore 10^{\text{th}}$ number = 58

 12^{th} number = 58 + 3 = 61

The required average = $\frac{58+61}{2}$ = 59.5

(B) Let speed of train $A = x \, \text{km/hr}$ speed of train B = (x - 25) km/hr A.T.Q.,

$$\frac{250}{x - 25} - \frac{300}{x} = 4$$

On solving, x = 50

Speed of train A = 50 km/hr

Hence, speed of train B = 25 km/hr

64. (A) A 100 = 240140 40% increase increase 140 = 315

The required percentage increase

$$= \frac{315 - 240}{240} \times 100 = 31.25$$

65. (C) Let r the be the radius and H be the height of the cylinder A.T.Q.,

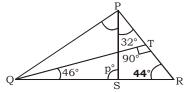
$$\frac{\pi r^2 H}{2\pi r H} = \frac{1848}{528} \Rightarrow \frac{r}{2} = \frac{7}{2} \Rightarrow r = 7 \text{cm}$$

putting r = 7, then $2\pi rH$ = 528

$$\Rightarrow$$
 H = $\frac{528 \times 7}{22 \times 14}$ = 12 cm

Required ratio =
$$\frac{\text{Radius}}{\text{Height}} = \frac{7}{12} = 7:12$$

66. (C)



In ∆QTR:-

$$46^{\circ} + 90^{\circ} + \angle R = 180^{\circ} \Rightarrow \angle R = 44^{\circ}$$

In ΔPSR:-

$$\angle PRS + \angle RSP + \angle SPR = 180^{\circ}$$

$$\Rightarrow$$
 44° + \angle RSP + 32° = 180°

$$\Rightarrow \angle RSP = 104^{\circ}$$

$$\therefore \angle PSQ(p^{\circ}) = 180^{\circ} - 104 = 76^{\circ}$$

67. (C) Let the two diagonals of rhombus are 10xand 7x.

Area of rhombus

$$= \frac{1}{2} \times 10x \times 7x = 35x^2$$

 \therefore Required ratio = $35x^2$: $(10x)^2$

$$\Rightarrow$$
 7:20

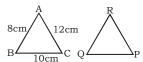
68. (C) a:b=3:2

Let a =
$$3x$$
, b = $2x$

Now,
$$\frac{5a+2b}{3a+4b} \Rightarrow \frac{5 \times 3x + 2 \times 2x}{3 \times 3x + 4 \times 2x}$$

$$\Rightarrow \frac{15x + 4x}{9x + 8x} \Rightarrow \frac{19x}{17x} = 19:17$$

69. (C)



Given that $ar(\Delta ABC)$: $ar(\Delta PQR)$

= 9:4

A.T.Q.,

$$\left(\frac{\text{BC}}{\text{PQ}}\right)^2 = \frac{ar(\text{ABC})}{ar(\text{RPQ})} \Rightarrow \left(\frac{10}{\text{PQ}}\right)^2 = \frac{25}{16}$$

$$\Rightarrow \frac{10}{PQ} = \frac{5}{4} \Rightarrow PQ = 8 \text{ cm}$$



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70. (D) Volume decreased

$$= \left(100 - 100 \times \frac{70}{100} \times \frac{70}{100} \times \frac{70}{100}\right)$$

$$= (100 - 34.3) = 65.7\%$$

71. (C) a + b + c = 15, ab + bc + ca = 67

Now,

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2$$
 (ab + bc + ca)

$$\Rightarrow$$
 15² = a² + b² + c² + 2 × 67

$$\Rightarrow$$
 $a^2 + b^2 + c^2 = 225 - 134 = 91$

Now, $a^2 + b^2 + c^2 - 3abc$

$$\Rightarrow$$
 (a+b+c)[a²+b²+c²-(ab+bc+ca)]

$$\Rightarrow$$
 15 [91 -67] \Rightarrow 15 × 24 = 360

72. (B) The required ratio

= 6:5

73. (C) Central angle of the sector

$$=\frac{45}{270} \times 360^{\circ} = 60^{\circ}$$

74. (A) The required percent

$$=\frac{(68+42)-64}{68+42}\times100$$

$$= \frac{110 - 64}{110} \times 100 = \frac{46}{110} \times 100$$

75. (D) The required percent

$$=\frac{69+45+61}{280}\times 100$$

$$=\frac{175}{280}\times100=62.5\%$$

MEANINGS IN ALPHABETICAL ORDER

Word Meaning in English

Amaxophobia fear of being in or riding in a vehicle

Anorexia loss of appetite

Anosomia loss of the sense of smell

Aphasia loss of speech due to medical problem

Astrophobia an abnormal fear stars and space

Cacophobia the fear of ugliness

Carouse to drink alcohol, make noise, and have fun with

other people

Contrite feeling or showing regret for bad behaviour Cryptic having or seeming to have a hidden meaning

Defiant refusing to obey something or someone
Disregard ignoring something or treating something

as unimportant

Distinct different in a way that you can see, hear, smell, feel, etc.

Dolent sorrowful

Frolic an enjoyable time or activity
Genophobia the fear of sexual intercourse

Grieve feel intense sorrow

Hypogeusia decreased sensitivity to taste Lucid clear to the understanding

Oracular hard to interpret
Overlook to pay no attention to

Psephology the scientific study of elections

Pseudonym a name that someone (such as a writer) uses instead

of his or her real name

Rueful showing or feeling regret for something done

Unambiguous clearly expressed or understood

Meaning in Hindi

वाहनो से डर क्षुधा-अभाव

घ्राणशक्ति का नाश

वाचाघात

तारों और अंतरिक्ष से डर

बदसूरती से डर

शराब के नशे में मौज मस्ती

पश्चात्ताप गुप्त

घृष्ट

अवहेलना करना

भिन्न होना

निराश

मौज-मस्ती करना

शारारिक संबंध बनान से डर

दुखी होना, मातम मनाना

स्वाद अल्पता

स्पष्ट रहस्यमय

रहस्यमय ध्यान ने देना

चुनाव विश्लेषण

कृत्रिम नाम

पश्चातापी

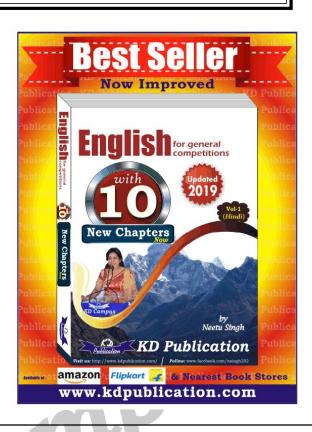
स्पष्ट



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SSC MOCK TEST - 231 (ANSWER KEY)

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



- 76. (C) Replace 'others' with 'another'. One to another is the correct phrase.
- 77. (B) Use 'living' in spite of 'life'. Here we need an Adjective to qualify Noun 'Personalities'.
- 78. (D) Means to be end to be a medium to achieve what you want.
- 79. (C) Protract-lasting for a long time Propel- drive or push something forward.
- 86. (C) Sentence is a fact and hence will be in present tense. Patients (Plural Noun) will take Plural verb (become)
- 87. (B) Indistinguishable takes from Preposition.

CORRECTIONS OF MOCK TEST NO. 230 COMPREHENSION HAS BEEN CHANGED

Direction (98-100):

Pigeon racing has become increasingly popular in parts of China among the country's and its middle class. Sun Yan, the deputy generalsecretary of Beijing Racing Pigeons Association, (98) that at least 100,000 pigeon breeders live in Beijing, and almost 90,000 of them are registered with Racing Pigeons Asociations at (99) levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (100) owners, with some prizes amouting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

- 98. **(A) said**
- (B) clarified
- (C) told
- (D) advised
- (A) different
- (B) differed
- (C) differential
- (D) differ
- 100. (A) pigeons
- (B) birds
- (C) animal
- (D) bird

Note: Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777