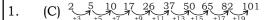


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SSC MOCK TEST - 229 (SOLUTION)



2. (C)
$$\stackrel{P}{\underset{13}{\overset{V}{\longrightarrow}}} \stackrel{V}{\underset{13}{\overset{V}{\longrightarrow}}} \stackrel{U}{\underset{13}{\overset{X}{\longrightarrow}}} \stackrel{A}{\underset{13}{\overset{Z}{\longrightarrow}}} \stackrel{C}{\underset{13}{\overset{F}{\longrightarrow}}} \stackrel{E}{\underset{13}{\overset{H}{\longrightarrow}}} \stackrel{K}{\underset{13}{\overset{M}{\longrightarrow}}} \stackrel{M}{\underset{13}{\overset{P}{\longrightarrow}}} \stackrel{P}{\underset{13}{\longrightarrow}} \stackrel{A}{\underset{13}{\overset{V}{\longrightarrow}}} \stackrel{P}{\underset{13}{\longrightarrow}} \stackrel{A}{\underset{13}{\longrightarrow}} \stackrel{A$$

- 4. (D) Jaipur → Rajasthan→ North India → India → Asisa
- 5. (D) Except Sodium, all elements are alkaline Earth metal.
- 6. (B) From options

$$A \rightarrow \underbrace{\begin{array}{c} U & V & Y & C & H \\ +1 & +3 & +4 & +5 \end{array}}_{}$$



$$C \rightarrow G H K O T$$

$$D \rightarrow P O T X C$$

$$+1 +3 +4 +5$$

7. (A) From options

 $A \rightarrow 13: 170 \rightarrow 13: 13^2 + 1$

 $B \to 11: 120 \to 11: 11^2 - 1$

 $C \rightarrow 5: 24 \rightarrow 5: 5^2 - 1$

 $D \rightarrow 7: 48 \rightarrow 7: 7^2 - 1$

8. (C) As, AU =
$$1 \times 21 = 21$$

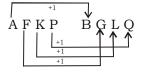
And, EGG = $5 \times 7 \times 7 = 245$
Similarly, BAKE = $2 \times 1 \times 11 \times 5 = 110$

9. (D) 19:400::24

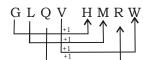
$$19 + 1 \longrightarrow 20^2 \longrightarrow 400$$

$$24 + 1 \longrightarrow 25^2 \longrightarrow 625$$

10. (A)



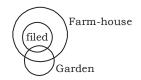
Similarly,



- 11. (B)
- 12. (D)
- 13. (C) ca**d/**bab/**c**ad/**b**ab/**c**ad/**b**ab

Similarly,

15. (A) Statements:



Conclusions:

I. (**✓**)

II. (**✓**) III. (**✓**)

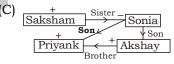
: All the conclusions I, II and III follow.

- 16. (B)
- 17. (B) ACCIDENT TNEDI

Similarly

PASSENGER REGENSSAP

- 18. (C)
- 19. (C)



20. (C) $4 \times 5 - 24 \div 12 + 8 = 14$

After interchanging the signs,

$$= 4 \times 5 + 24 \div 12 - 8$$

$$= 20 + 2 - 8$$

= 14

Hence, option (C) satisfies the given equation.

- 21. (A)
- 22. (C) from figure II and III

5 2

5 1 4

: '6' will appear opposite of 4.

- 23. (D)
- 24. (B)

25. (A)
$$7^2 + 8^2 = 113$$

$$11^2 + 12^2 = 265$$

$$14^2 + 9^2 = 277$$



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- 27. (D) Adolf Hitler forbade three Germans, Richard Kuhn (Chemistry, 1938), Adolf Butenandt (Chemistry, 1939), and Gerhard Domagk (Physiology or Medicine, 1939), from accepting their Nobel Prizes, and the government of the Soviet Union pressured Boris Pasternak (Literature, 1958) to decline his award. Two Nobel laureates, Jean-Paul Sartre (Literature, 1964) and Le Due Tho (Peace, 1973), declined the award.
- 28. (D) Warren Hastings (1773-85): Asiatic Society was founded by Sir William Jones on 15 January 1784. Isha Mohammad was its President.

Charles Metcalfe (1835-36): Calcutta Public Library (National Library of India was Established in 1836.

John Lawrence (1864-69): Allahabad High Court (Prayagraj) was established on 17 March 1866.

Lord Irwin (1926-31)

Reserve Bank of India was established on 1 April 1935.

29. (B) The Battle of Sirhind was fought between the Mughal Empire and the Suri Empire in 1555.

> Battle of Ghaghra (1529) fought between Babur and Afgan confederates.

> Battle of Chausa (1539) fought between Humayun and Sher Shah Suri.

Battle of Chanderi -1528

30. (A) UK - Parliamentary government, Rule of Law, Legislative procedure, Single Citizenship, Cabinet system, Prerogative writs, Parliamentary privileges and Bicameralism.

> South Africa-Procedure for amendment in the Indian Constitution and Election of members of Rajya Sabha.

> France- Republic and Ideals of liberty, equality and fraternity in the Preamble.

- 31. (B) Third Plan - (1961-1966) Fifth Plan - (1974-1979) Rolling Plan - (1978-1980) Seventh Plan - (1985-1990) Ninth Plan - (1997-2002)
- 32. (C) Other components are cash Reserve Ratio, Statutory liquidity Ratio, Bank Rate, Reverse Repo Rate and Open Market Operations.

- 34. (B) 27 degree centigrade latitude passes through Gangtok and Alwar.
- 35. (C) The author of the novel 'Darkness at Noon' is Authur Koestler. The author of the novel 'The Sound and the Fury' is William Faulkner.
- (D) Siderite (FeCO₃) is a mineral composed 37. of Iron Carbonate.
- 38. (A) Light - A unit of astronomical distance equivalent to the distance that light travels in one year $(9.4607 \times 10^{12} \text{ km})$.
- (A) Maitree Bus India and Bangladesh. 43.

45.	(A) Strait/	Landmasses			
	Isthamus	Separated			
	Strait of Gibraltar	Africa and Europe			
	Palk Strait	India and			
		Sri Lanka			
	Isthmus of	North and			
	Panama	South America			

- 47. (B) Sofia Kenin won the Women's Singles of Australian Open 2020.
- 48. (D) Four others who have been awarded Posthumously-George Fernandes, Arun Jaitley, Sushma Swaraj (Public Affairs) and Pejavara Adhokaja Matha Udupi (Others-Spiritualism)
- 49. (A) Raja Reddy is associated with Kuchipudi.
- 50. (D) 1 December - World Aids Day 4 December - Navy Day 10 December - Human Rights Day
- 51. (C) Required amount

$$= \left[\left(2000 \times \frac{1}{2} \times \frac{3}{4} \right) + 50 \right] \times \frac{8}{5} = ₹1280$$

52. (C) ATQ,

8A5146B is divisible by 88

 \Rightarrow 8A5146B is divisible by 8, 11

8A5146B is divisible by 8

 \Rightarrow 46B is divisible by 8

 \Rightarrow B = 4

8A51464 is divisible by 11

 \Rightarrow + 4 - 6 + 4 - 1 + 5 - A + 8 is divisible by

 \Rightarrow 21 – 7 – A divisible by 11

 \Rightarrow 14 – A divisible by 11

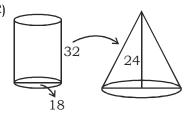
 \Rightarrow A = 3

 \Rightarrow A × B = 4 × 3 = 12

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53. (C)



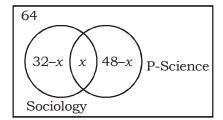
Volume of cylinder = volume of cone

$$\pi r^2 h = \frac{1}{3} \pi r_1^2 h_1$$

$$\pi \times 18 \times 18 \times 32 = \frac{1}{3}\pi \times r^2 \times 24$$

$$r = 36 \text{ cm}$$

54. (D) Let x be the number of students who has taken both subjects.



Sociology students = $64 \times 50\% = 32$ P. Science students = $64 \times 75\% = 48$ Now,

$$(32 - x) + x + (48 - x) = 64$$

 $\Rightarrow 32 + 48 - x = 64$
 $\Rightarrow x = 80 - 64 = 16$

55. (B)
$$9^{(2x-1)} - 81^{(x-1)} = 1944$$

$$\Rightarrow 3^{(2(2x-1))} - (3)^{(4(x-1))} = 1944$$

$$\Rightarrow$$
 3^(4x-2) - (3)^(4x-4) = 1944

$$\Rightarrow 3^{(4x-2-2+2)} - 4^{4x-4} = 1944$$

$$\Rightarrow 3^{(4x-4)} \lceil 3^2 - 1 \rceil = 1944$$

$$\Rightarrow 3^{4x-4} 8 = 1944$$

$$\Rightarrow$$
 3^{4x-4} = 243

$$\Rightarrow 3^{4x-4} = 3^5$$

$$\Rightarrow 4x - 4 = 5$$

$$\Rightarrow x = \frac{9}{4}$$

56. (D) A.T.Q,

Let numbers are x, y and 73

$$xy\times73-xy\times37=720$$

$$xy = 20$$

minimum value of $x^2 + y^2$

$$x = 20$$

$$x = 2\sqrt{5}$$
 and $y = 2\sqrt{5}$

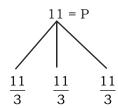
minimum value = $x^2 + y^2 = 2 \times x^2$

$$=2\times\left(2\sqrt{5}\right)^2$$

$$= 2 \times 4 \times 5 = 40$$

64,000 : 112,000

After C join total profit 11 units is divided among three



$$\frac{1}{2}$$
 $7-\frac{11}{2}$

 \downarrow

Loss of A Loss $11 \rightarrow 2,20,000$

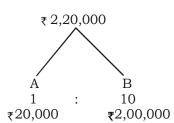
 $1 \to 20,000$

A : B :

4 : 7

$$\frac{11}{3}$$
 $\frac{11}{3}$: $\frac{13}{3}$

 $\frac{1}{3}$ $\frac{10}{3}$



58. (A) \angle CAD = \angle CBD (Angles in the same segment of a circle)

Now
$$\angle BAD = \angle BAC + \angle CAD$$

$$= 30 + 60^{\circ} = 90^{\circ}$$

Now
$$\angle BAD + \angle BCD = 180^{\circ}$$

$$\Rightarrow$$
 90° + \angle BCD = 180°

$$\Rightarrow \angle BCD = 180^{\circ} - 90^{\circ} = 90^{\circ}$$

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59. (B) Let principal x = 10000 units

rate r = 7.5%

Ist year \rightarrow 750

IInd year \rightarrow 750 56.25

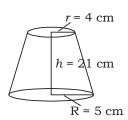
Difference between CI and SI

56.25 units → ₹45

Principal x = 10000 units

$$= \frac{45 \times 10000}{56.25} = ₹8000$$

60. (C)



Volume of frustum

$$= \frac{\pi h}{3} (R^2 + rR + r^2)$$

$$= \frac{22}{7} \times \frac{21}{3} [(5)^2 + 5 \times 4 + (4)^2]$$

$$= 22(25 + 20 + 16)$$

$$= 22 \times 61$$

$$= 1342 \text{ cm}^3$$

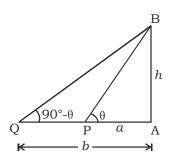
- 61. (C) $\cot^2 62^\circ \sec^2 28^\circ + \csc^2 30^\circ + \tan^2 60^\circ$ = $\cot^2 62^\circ - \sec^2 (90^\circ - 62^\circ) + (2)^2 + (\sqrt{3})^2$ = -1 + 4 + 3 = 6
- 62. (B) $3\cos^2 A + 7\sin^2 A = 4$ $3\cos^2 A + 7\sin^2 A = 4\sin^2 A + 4\cos^2 A$ $3\sin^2 A = \cos^2 A$ $\tan^2 A = \frac{1}{2}$

$$tan^2A = \frac{1}{\sqrt{3}}$$

$$A = 30^{\circ}$$

$$\cot A = \cot 30^{\circ} = \sqrt{3}$$

63. (A) A.T.Q,



Here, h = height of tower AB

$$\tan\theta = \frac{h}{a}$$
(i)

$$\tan(90^\circ - \theta) = \frac{h}{b}$$

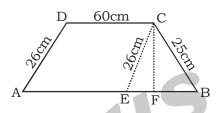
or,
$$\cot \theta = \frac{h}{b}$$

$$\Rightarrow \tan\theta = \frac{b}{h}$$
(i)

From equation (i) and (ii)

$$\frac{h}{a} = \frac{b}{h} \Rightarrow h = \sqrt{ab}$$

64. (B) A.T.Q,



□ ABCD is a trapezium

Draw CE | DA intersecting AB at E.

$$\Rightarrow$$
 DA = CE = 26 cm

In ΔBCE,

$$S = \frac{17 + 25 + 26}{2} = \frac{68}{2} = 34$$

Area (ΔBCE).

=
$$\sqrt{34(34-17)(34-25)(34-26)}$$
 cm²

$$= \sqrt{34 \times 17 \times 9 \times 8}$$

$$= \sqrt{2 \times 17 \times 17 \times 3 \times 3 \times 2 \times 2 \times 2}$$

$$= 2 \times 2 \times 3 \times 17 = 204 \text{ cm}^2$$

$$\Rightarrow \frac{1}{2} \times BE \times height = 204$$

or,
$$\frac{1}{2} \times 17 \times \text{CM} = 204$$

$$\Rightarrow$$
 CM = $\frac{204 \times 2}{17}$ = 24 cm

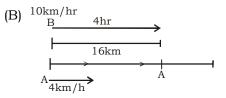
Area (Trap. ABCD) =
$$\frac{1}{2}$$
 ×(60 + 77) × 24

$$=\frac{1}{2} \times 137 \times 24 = 1644 \text{ sq. cm}$$

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65.



Distance covered by A in 4 hr. $= 4 \times 4 = 16 \text{km}$

A catched by B in = $\frac{16}{10-4} = \frac{16}{6}$ hr.

Distance from starting point

$$=\frac{16}{6}\times10 = \frac{16}{3}\times5 = \frac{80}{3} = 26.67$$
km

66. (A) ATQ,

Single discount

$$= 2000 \times \frac{30}{100} = ₹600$$

Now, two successive discount

$$= 2000 \times \frac{25}{100} = = ₹500$$

=
$$(2000-500) \times \frac{5}{100}$$
 = ₹75

After two successive discount =(500+75)= ₹575

The difference between discounts =600 - 575 = ₹25

67. (A) ATQ,

1 Woman = 3 Men

1 Boy =
$$\frac{1}{2}$$
 Man

Total work = $(3m+4w+6h) \times 6$

=
$$(3m + 4 \times 3m + 6 \times \frac{1}{2}m) \times 6$$

= 18 m + 6 = 108 m

Let x woman complete the work in 4 days

$$xw \times 4 = 108 \text{ m}$$

$$x \times 3 \text{ m} \times 4 = 108 \text{ m}$$

x = 9 Days

68. (D) ATQ,

 $200 \text{ m} \times 150 \text{ m} \times 8 \text{ m} = 0.3 \text{ m} \times 0.2 \text{ m}$

$$\times \frac{20,000 m}{hr} \times t$$

$$\Rightarrow$$
 240000 = 1200 t

$$\Rightarrow$$
 $t = 200 \text{ hrs}$

69. (C)
$$\frac{A}{3} = \frac{B}{2} = \frac{C}{5} = K$$

Now,

A =
$$3k$$
, B = $2k$, C = $5k$
(C + A)² : (A + B)² : (B + C)²
= $(5 + 3)^2$: $(3 + 2)^2$: $(2 + 5)^2$
= 8^2 : 5^2 : 7^2
= 64 : 25 : 49

70. (B) The total data of production of cars of type E = 180180 units are representing 360°.

Then, the data of production of cars in

(A) Total production of cars of type A in 2014 and type C in 2013 = (48 + 36) = 84Total production of cars of type B in 2016 and type E in 2015

$$= (56 + 35) = 91$$

Then, Ratio = 84:91=12:13

72. (A) Total production of type B cars in 2012, 2014 and 2015 = 120 Total production of type A car in 2013

and 2016 = 91

Required percentage

$$= \frac{120 - 91}{91} \times 100 = \frac{29}{91} \times 100$$
$$= 31.9\%$$

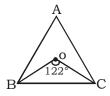
73. (D) Average of car type D

$$=\frac{51+24+30+46+54}{5}=\frac{205}{5}=41$$

No. of years = '2'.

74. (D) $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 4)$ of 4 - 4 \Rightarrow 2 × 3 ÷ 6 × 2 ÷ (4 + 4 × 4 ÷ 16 – 1× 4) \Rightarrow 2 ÷ (4 + 1 – 4) = 2

75. (A)



By theorem,

$$\angle BOC = 90^{\circ} + \frac{\angle A}{2}$$
 (By property)

$$\Rightarrow 122^{\circ} - 90^{\circ} = \frac{\angle A}{2} \Rightarrow \angle A = 64^{\circ}$$



MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Abundance	a very large quantity of something	प्रचुरता
Acquisitive	excessively interested in acquiring money or material things	प्राप्त करने की लालसा वाला
Adept	very skilled or proficient at something	निपुण
Avaricious	having or showing an extreme greed for wealth or	लालची
	material gain.	
Benevolent	kind	भलाई करने वाला
Cauldron	a large metal pot with a lid and handle, used for	कड़ाही
	cooking over an open fire.	
Contemptible	deserving contempt; despicable	घिनौना
Covetous	having or showing a great desire to possess something	ललायित
	belonging to someone else.	
Critical	serious, expressing adverse or disapproving comments or	नाजुक, आलोचनात्मक
	judgements	15
Crucial	decisive or critical, especially in the success or failure	महत्वपूर्ण
	of something.	
Imperative	of vital importance; crucial	अनिवार्य
Initiate	cause (a process or action) to begin	आरंभ
Invade	(of an armed force) enter (a country or region) so as	आक्रमण करना
	to subjugate or occupy it.	
Kind-hearted	having a kind and sympathetic nature	दयालु
Mercenary	primarily concerned with making money at the expense	जो सिर्फ पैसों के लिए काम
	of ethics.	करता हो
Pivotal	of crucial importance in relation to the development or	कोंन्द्रीय
	success of something else.	
Skillet	a small metal cooking pot with a long handle, typically	पैंन
	having legs.	
Trivial	of little value or importance.	तुच्छ
Wreath	an arrangement of flowers, leaves, or stems fastened	माला (कब्र में चढ़ाने वाला)
	in a ring and used for decoration or for laying on a grave.	

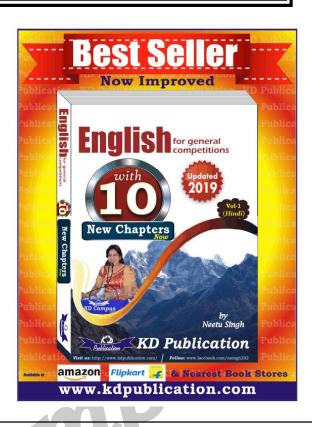


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SSC MOCK TEST - 229 (ANSWER KEY)

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



Correction Mock Test 229

17. In a code language, ACCIDENT is coded as TNEDICCA. How would PASSENGER be coded in that language.

> किसी कूट भाषा में, ACCIDENT को ATNEDICCA लिखा जाता है। उसी कूट भाषा में PASSENGER को क्या लिखा जाएगा?

- (A) REGNSESAP
- (B) REGNESSAP
- (C) REGMESSAP
- (D) RGENESSAP

- 76. (C) Use 'in' inspite of 'at'.
- 77. (*) By mistake Noun Verb is not there.
- 78. (B) Tormenting inflicting severe physical or mental suffering.

Invoking:- call on (a deity or sprit) in prayer.

Cursing:- शाप देना भला-बुरा बोलना

79. (A) Rarefied:- of air of low pressure than

Exalted:- of high rank, elevated.

- 86. (C) Sentence is in past form, so past Indefinite is used here. Thus, we should place 'visited' in place of 'visit'.
- 87. (D) 'highlights' in place of 'highlight', because it is present indefinite tense and Singular Noun is followed by s/es.

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