

SSC MOCK TEST – 62 (SOLUTION)

1. (D) Look for opposites in this series of figures. The first and second segments are opposites of each other. The same is true for the third and fourth segments.
2. (A) Jalka means happy; mofti means birthday; hoze means party; mento means good; and gunn means the suffix ness. We know the answer must include the suffix ness. The only choice that uses that suffix is choice (A).
3. (B) The students union formation shall be a step towards giving to students the basic education in the field of politics. However, it shall create the same political atmosphere in the campus. Thus, both the arguments hold strong.
4. (C) The correct order is :
Seed Plant Tree Flowers Fruit
2 5 1 3 4
5. (D) Gold and Zinc are different from each other but both are metal.
6. (B) Trunk, Fruit and leaf are the parts of the tree.
7. (C) $15 = 3 \times 5$
 $35 = 5 \times 7$
 $99 = 9 \times 11$
 $77 = 7 \times 11$

Except (C), others are product of consecutive prime numbers. 9 is not a prime number.

8. (D)

	No. of const. (A)	No. of Vowels (B)	A ²	B ³
ROAD	2	2	4	8
SHIP	3	1	9	1
ARE	1	2	1	8
DEAR	2	2	4	64

The word 'DEAR' is different from others, as DEAR = $464 \div 84$.

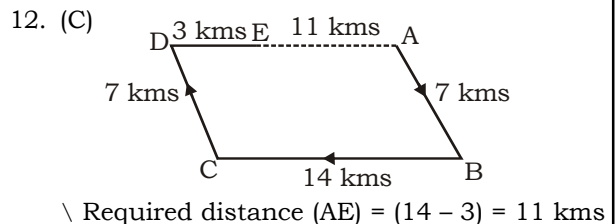
9. (C) Let there be $(x + 1)$ members. Then,
Father's share = $\frac{1}{4}$, share of each other

$$\text{member} = \frac{3}{4x}$$

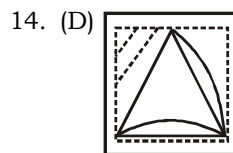
$$\backslash 3 \frac{3}{4x} \hat{=} \frac{1}{4} \hat{=} 4x = 36 \hat{=} x = 9.$$

Hence, total number of family members = 10

10. (B) A and B are children of D. From (1), C is the brother B and son of F. Since, the sex of D and E are not known. Hence (1) is not sufficient to answer the question. From (2), F is the mother of B. Hence, F is also the mother of A. Hence D is the father of A. Thus, (2) is sufficient to answer the question.
11. (B) As the numbers 2, 3, 4 and 5 are adjacent to 6. Hence the number on the face opposite to 6 is 1.



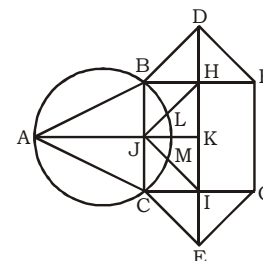
13. (D)



15. (A) In each row, the central part of the first figure rotates either 90° CW or 90° ACW to form the central part of the second figure and the central part of the first figure rotates through 180° to form the central part of the third figure. Also, in each row, there are 3 types of side elements i.e., rectangles, circles and triangles.

16. (C)
17. (C) $8 \times 0.5 + 2 = 6$
 $6 \times 1 + 3 = 9$
 $9 \times 2 + 4 = 22$
 $22 \times 4 + 5 = \mathbf{93}$
 $93 \times 8 + 6 = 750$

18. (C) The figure may be labelled as shown.



Simplest triangles are ABJ, ACJ, BDH, DHF, CIE and GIE i.e. 6 in number.

Triangles composed of two components each are ABC, BDF, CEG, BHJ, JHK, JKI and CJI i.e. 7 in number.

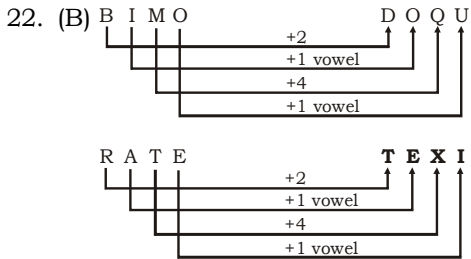
There is only one triangle JHI which is composed of four components.

Thus, there are $6 + 7 + 1 = 14$ triangles in the given figure.

19. (C) We can't find 2 E's in the word 'HERBIVOROUS'.

20. (B)

21. (A) $(5 \times 4) - (6 \times 3) = 2 \Rightarrow 2^3 = 8$
 $(3 \times 6) - (5 \times 3) = 3 \Rightarrow 3^3 = 27$



23. (C) FIRE = 2 const. & 2 vowel = $(2)^3$ & $(2)^2 \Rightarrow 84$
 RAINBOW = 4 const. & 3 vowel = $(4)^3$ & $(3)^2$
 $\Rightarrow 649$

24. (B) $8 \times 1 + 5 = 13$
 $13 \times 2 + 4 = 30$
 $30 \times 3 + 3 = 93$
 $93 \times 4 + 2 = 374$
 $374 \times 5 + 1 = \mathbf{1871}$

25. (D) J A Y S U R Y A
 17 26 2 8 6 9 2 26 = 96
 $\Rightarrow 96 \times 8(\text{no. of letters}) = 768$

L A R A
 15 26 9 26 = $76 \Rightarrow 76 \times 4(\text{no. of letters}) = 304$

T E N D U L K A R
 7 22 13 23 6 15 16 26 9 = 137
 $\Rightarrow 137 \times 9(\text{no. of letters}) = \mathbf{1233}$

26. (C) The first National Conference of Investigating Agencies was held from August 12th to 13th, 2016 at Vigyan Bhawan in New Delhi. The two-day conference was inaugurated by the Union Home Minister Rajnath Singh. The conference was attended by more than 100 delegates from States/UTs/Central Police Organisations.

27. (C) Viratnagar, capital of Matsya Mahajanpada was located near present Jaipur. It was used as a hiding place by Pandavas during 13th year of their exile.

28. (C) The Maharashtra government has recently launched India's first comprehensive 'Crime Criminal Tracking Network System' (CCTNS) through 42 cyber labs in Mumbai on August 15th, 2016. Under the CCTNS, all police stations in the state will be linked with one another for sharing information about crimes in their respective

jurisdictions and pave the way for a digital police force in Maharashtra.

29. (C) Both the statements are correct in this question. The total land boundary of India is about 15,200 km and the total length of the coast line of the mainland including Andaman and Nicobar and Lakshadweep is 7,516.6 km. This implies that land border of India is approximately twice of the coastline of the country.

30. (C) A.R. Rahman, is the Oscar-winning music maestro, has been honoured by the New York-based Tamil Sangam with its Tamil Ratna Award. Rahman was bestowed with the award after his concert at the United Nations General Assembly (UNGA) to honour M.S. Subbulakshmi's birth centenary. The concert was sponsored by the India's UN Mission and Sankara Nethralaya, a Chennai-based charity organization.

31. (B) The Railway bridge being constructed over the Chenab River in Jammu & Kashmir is planned to have a height of 359 meters from river bed level which, as per available information, is the highest railway bridge in the world. The railway bridge over river Chenab is a part of Udhampur-Srinagar-Baramulla new line project which, on completion, is expected to connect Anantnag, Pulwama, Sopian, Badgam, Srinagar and Baramulla districts of Jammu & Kashmir State to the Railway network.

33. (B) R.K. Shanmukham Chetty was the first Finance Minister of independent India. He presented the first budget of independent India on November 26th, 1947.

34. (B) CBDT Chairperson is responsible for transfers and postings of officers in the cadre of Chief Commissioner of Income-tax and Commissioner of Income-tax.

35. (A) The act 1892 can be said to be a First step towards the beginning of the parliamentary system in India, where the members are authorized to ask questions. Indian Councils act 1892 can also be said to introduce the principle of representation.

36. (C) Gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$), about 2 - 5% is added to retard the setting action of cement.

39. (D) Raja Ram Mohan Roy has come to be called the 'Maker of Modern India'. He was the main force behind introduction of the western education and English language in India. He advocated the study of English, Science, Western Medicine and Technology. He spent his money on a college to promote these studies. He was the founder of the Brahmo Samaj and a great leader of social reform. It was as a result of his persistent campaign that the custom of Sati was declared illegal in Bengal in 1829 A.D. by Lord

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William Bentick. He was the chief advocate of the modern process of education and the scientific learning.

47. (B) The book "A Book of Light: When a Loved One Has a Different Mind" has been authored by Jerry Pinto. The book is a collection of stories from people who recount their experiences of living with loved ones with a mental illness. In a society where the subject is rarely discussed openly, even among family, the book reminds us that we need many more such personal accounts.

48. (C) Polysiloxane are usually used for hair setting in beauty parlours. These Silicon based compounds have an affinity for the hair and form a film at hairs surface.

49. (B) $\text{Ag} + \text{S} \rightarrow \text{Ag}_2\text{S}$
Silver Sulphur Silver sulphide (Black)

51. (B) Relative speed = $(45 + 30)$ km/hr

$$= \frac{75}{18} \times \frac{5}{6} = \frac{25}{6} \text{ m/sec}$$

We have to find the time taken by the slower train to pass the driver of the faster train and not the complete train.

So, distance covered = Length of the slower train

Therefore, Distance covered = 500 m

$$\text{Required time} = \frac{500}{\frac{25}{6}} = 120 \text{ sec}$$

52. (A) $\frac{15^{2016} + 16^{2017}}{7} \div \left(\frac{15^{2016}}{7} + \frac{16^{2017}}{7} \right)$
 $= \frac{1^{2016}}{7} + \frac{2^{2017}}{7}$ (As, rem. $(15/7) = 1$ and rem. $(16/7) = 2$)

Now, Rem. $\frac{1^{2016}}{7} = 1$ & Rem. $\frac{2^{2017}}{7} = 2$

\ Required remainder = $1 + 2 = 3$

53. (D) Let the rate be R% p.a.

$$\text{Then, } \frac{5000 \cdot R \cdot 2}{100} + \frac{3000 \cdot R \cdot 4}{100} = 2200$$

$$\Rightarrow 100R + 120R = 2200$$

$$\Rightarrow R = \frac{2200}{220} = 10$$

\ Rate = 10%

54. (B) C.P. of 56 kg rice = $(26 \times 20 + 30 \times 36)$
 $= (520 + 1080)$
 $= ₹ 1600$

S.P. of 56 kg rice = $(56 \times 30) = ₹ 1680$

$$\text{Gain} = \frac{80}{1600} \times 100\% = 5\%$$

55. (B) Increase in 10 years = $(262500 - 175000)$
 $= 87500$

$$\text{Increase \%} = \frac{87500}{175000} \times 100\% = 50\%$$

$$\text{Required average} = \frac{50}{10}\% = 5\%$$

56. (B) Total volume of water displaced
 $= (4 \times 50) = 200 \text{ m}^3$

$$\text{Rise in water level} = \frac{200}{40 \times 20} = 0.25 \text{ m}$$

 $= 25 \text{ cm}$

57. (A) Unit digit in $(6374)^{1793} =$ Unit digit in $(4)^{1793}$
 $=$ Unit digit in $[(4^2)^{896} \times 4]$
 $=$ Unit digit in $(6 \times 4) = 4$

Unit digit in $(625)^{317} =$ Unit digit in $(5)^{317} = 5$
Unit digit in $(341)^{491} =$ Unit digit in $(1)^{491} = 1$
Required digit = Unit digit in $(4 \times 5 \times 1) = 0$

58. (B) Given exp.

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

 $= \frac{X^a}{(X^a + X^b + X^c)} + \frac{X^b}{(X^a + X^b + X^c)} + \frac{X^c}{(X^a + X^b + X^c)}$
 $= \frac{(X^a + X^b + X^c)}{(X^a + X^b + X^c)} = 1$

59. (B) Let the required number of revolutions made by larger wheel be x.

Then, More cogs, less revolutions (Indirect Proportion)

$$14 : 6 :: 21 : x \Rightarrow 14x = 6 \times 21$$

$$\Rightarrow x = \frac{6 \times 21}{14}$$

$$\Rightarrow x = 9$$

60. (C) Let the distance travelled be x km

$$\text{Then, } \frac{x}{10} - \frac{x}{15} = 2$$

$$\Rightarrow 3x - 2x = 60$$

$$\Rightarrow x = 60 \text{ km}$$

Time taken to travel 60 km at 10 km/hr

$$= \frac{60}{10} = 6 \text{ hrs}$$

So, Robert started 6 hrs before 2 P.M. i.e., at 8 A.M.

$$\text{Required speed} = \frac{60}{5} = 12 \text{ km/h}$$

61. (B) C's 1 day's work = $\frac{1}{3} - \frac{1}{6} + \frac{1}{8}$

$$= \frac{1}{3} - \frac{7}{24} = \frac{1}{24}$$

A's wages : B's wages : C's wages

$$= \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1$$

$$\begin{aligned} \text{\ C's share (for 3 days)} &= \frac{1}{24} \times 3 \times 3200 \\ &= ₹ 400 \end{aligned}$$

62. (C) Rate downstream = $\frac{1}{10} \times 60 = 6$ km/hr

Rate upstream = 2 km/hr

$$\text{Speed in still water} = \frac{1}{2}(6 + 2) = 4 \text{ km/hr}$$

$$\text{\ Required time} = \frac{5}{4} \text{ hrs}$$

$$= 1\frac{1}{4} = 1 \text{ hr } 15 \text{ min}$$

63. (A) Amount = (30000 + 4347) = ₹ 34347
Let the time be n years

$$\text{Then, } 30000 \left(1 + \frac{7}{100}n\right) = 34347$$

$$\frac{107}{100} = \frac{34347}{30000} = \frac{11449}{10000} = \frac{107}{100}$$

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

64. (B) Let the investments be ₹ x for 14 months, ₹ y for 8 months and ₹ z for 7 months respectively.

$$\text{Then, } 14x : 8y : 7z = 5 : 7 : 8$$

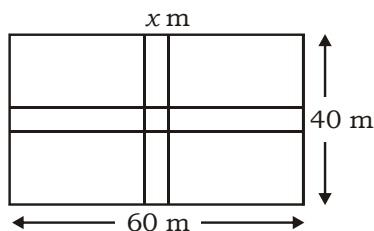
$$\text{Now, } \frac{14x}{8y} = \frac{5}{7} \hat{=} 98x = 40y \hat{=} y = \frac{49}{20}x$$

$$\text{and, } \frac{14x}{7z} = \frac{5}{8} \hat{=} 112x = 35z$$

$$\hat{=} z = \frac{112}{35}x = \frac{16}{5}x$$

$$\text{\ } x : y : z = x : \frac{49}{20}x : \frac{16}{5}x = 20 : 49 : 64$$

65. (B)



$$\text{Area of the park} = (60 \times 40) = 2400 \text{ m}^2$$

$$\text{Area of the lawn} = 2109 \text{ m}^2$$

$$\text{\ Area of the crossroads} = (2400 - 2109) = 291 \text{ m}^2$$

Let the width of the road be x m. Then,
Area of road 1 + Area of road 2 - common area of crossroads = Area of crossroads

$$60x + 40x - x^2 = 291$$

$$\hat{=} x^2 - 100x + 291 = 0$$

$$\hat{=} (x - 97)(x - 3) = 0$$

$$\hat{=} x = 3$$

$$\text{\ Width of the road} = 3 \text{ m}$$

66. (D) Given ratio = $\frac{1}{2} : \frac{2}{3} : \frac{3}{4} = 6 : 8 : 9$

$$\text{\ 1st part} = \frac{6}{23} \times 782 = ₹ 204$$

67. (B) Let B got turned off after x min. Then,
Part filled by (A + B) in x min + Part filled by A in $(30 - x)$ min = 1

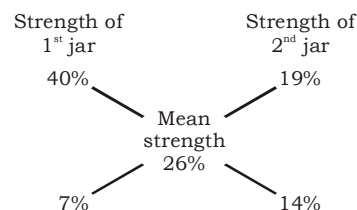
$$\text{\ } x \left(\frac{2}{75} + \frac{1}{45}\right) + (30 - x) \frac{2}{75} = 1$$

$$\hat{=} \frac{11x}{225} + \frac{(60 - 2x)}{75} = 1$$

$$\hat{=} 11x + 180 - 6x = 225$$

$$\hat{=} x = 9$$

68. (B) By rule of alligation, we have



$$\text{Ratio of 1st and 2nd quantities} = 7 : 14 = 1 : 2$$

\ Required quantity which should be replaced

$$= \frac{2}{2+1} = \frac{2}{3}$$

69. (A) $x - y = \frac{x+y}{7} = \frac{xy}{4} = k$

$$\hat{=} x - y = k$$

$$x + y = 7k$$

$$\text{\ } (x + y)^2 - (x - y)^2 = 49k^2 - k^2$$

$$4xy = 48k^2 \hat{=} 16k = 48k^2 \hat{=} k = \frac{1}{3}$$

$$\text{\ } xy = 4k = 4 \times \frac{1}{3} = \frac{4}{3}$$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Audacity	rude or disrespectful behaviour; impudence	धृष्टता
Chivalrous	courteous and gallant, especially toward women	औरतों के प्रति शिष्ट
Consequence	a result or effect of an action or condition	परिणाम
Deliverance	the action of being rescued or set free	मुक्ति
Demagogue	a political leader who seeks support by appealing to popular desires and prejudices	भड़काऊ भाषण देने वाला
Dinghy	a small boat for recreation or racing	प्रतियोगिता के लिए बनी नाव
Dire	extremely serious or urgent	विकट, कठोर
Exile	the state of being barred from one's native country	निर्वासन, देश निकाला
Expiation	the act of making amends or reparation for guilt or wrong doing; atonement	परिहार
Frigate	a warship with a mixed armament	युद्ध-पोत
Gallant	brave; heroic	वीर, साहसी
Gigantic	of very great size or extent; huge or enormous	विशालकाय, बहुत बड़ा
Heinous	utterly odious or wicked	घिनौना, कुत्सित
Humility	a modest or low view of one's own importance; humbleness	विनम्रता
Imprison	put or keep in prison	बन्दी बनाना, कैद करना
In pursuit of	chasing after something	की खोज में
Monstrous	having the ugly or frightening appearance of a monster	दैत्याकार, डरावना
Pursue	continue or proceed along	आगे बढ़ाना, जारी रखना
Redemption	the action of saving or being saved from sin, error, or evil	पाप मुक्ति
Redundant	not or no longer needed or useful; superfluous	अनावश्यक, फालतू
Resumption	the action of beginning something again after a pause or interruption	पुनः आरंभ
Righteous	morally right or justifiable; virtuous	ईमानदार, न्यायपरायणता
Statesman	a skilled, experienced, and respected political leader or figure	नीति उपदेशक, गुणवान व्यक्ति
Submission	the action of accepting or yielding to a superior force or to the will or authority	समर्पण
Valorous	possessing or showing courage or determination	बहादुर, साहसी



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SSC MOCK TEST - 62 (ANSWER KEY)

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

76. (C) Remove 'was'. The helping verb of first sentence works for the second one too.
77. (C) When there is a comparison between two persons or things, we use comparative degree. Replace 'the best' by 'better' or 'the better'.
78. (B) Since the sentence is in passive form, replace 'reporting' by 'reported'.
90. (B) Since this is an imperative sentence, it will take 'will you?' or 'would you?' as a question tag.
91. (C) As a sentence is in past tense, 'is' should be replaced by 'was'.
92. (C) A discovery is recognizing something that already exists for the first time, that nobody has found before.
An invention is creating something totally new with one's own ideas and development.

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

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003