

SSC SELECTION POST GRADUATION LEVEL



MODEL PAPER 1



SSC Selection Post Graduation Level Model Paper 1

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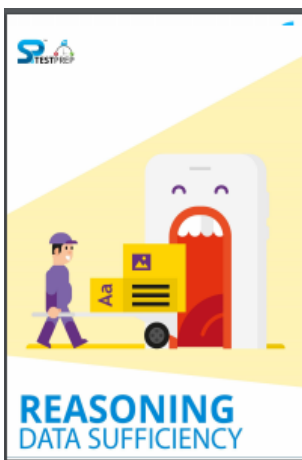
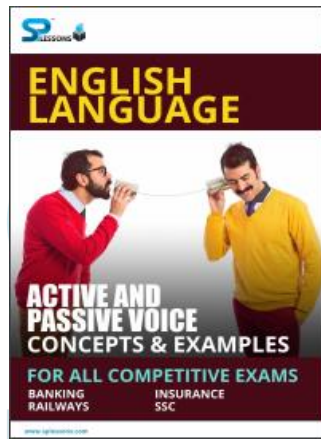
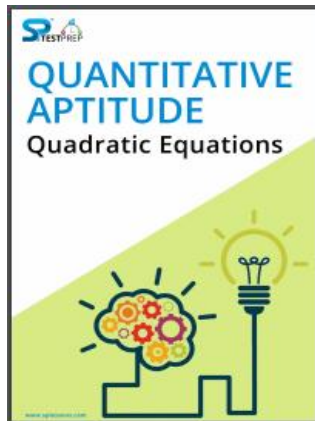
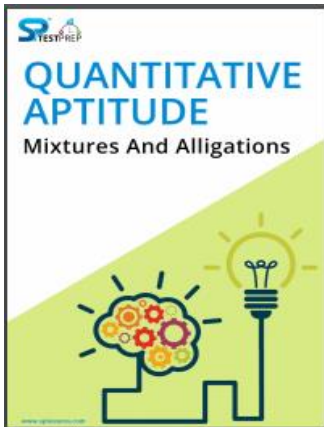
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1. Cup : Coffee :: Bowl : ?

- A. Dish
- B. Soup
- C. Milk
- D. Food

Answer: B

Explanation:

Coffee is contained in Cup. Similarly, Soup is contained in Bowl.

Hence, option B is correct.

2. Paralysis : Nerves :: Madness : ?

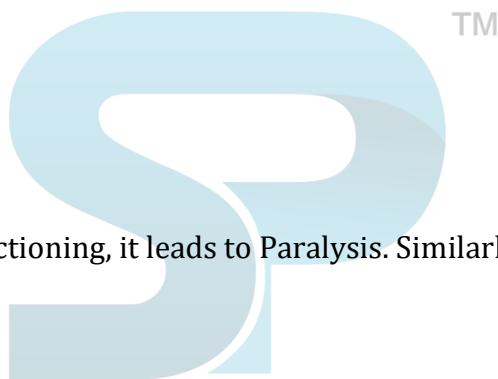
- A. Eye
- B. Brain
- C. Face
- D. Body

Answer: B

Explanation:

When nervous system stops functioning, it leads to Paralysis. Similarly, when our brain stops working, it leads to Madness.

Hence, option B is correct.



3. m n m - - n m - - n m - m n

- A. n m m m n
- B. m n m m n
- C. m n n m n
- D. m n n n n

Answer: C

Explanation:

The series is m n / m n / m n / m n / m n / m n

4. - q r p - r r p - r p - q - r

- A. q q q q p
- B. q q p p q
- C. q q q p q



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D. p q q q p

Answer: C

Explanation:

The series is q q r p / q r r p / q r p p / q q r

5. Look at this series: 80, 10, 70, 15, 60, ... What number should come next?

- A. 20
- B. 25
- C. 30
- D. 50

Answer: A

Explanation:

This is an alternating addition and subtraction series. In the first pattern, 10 is subtracted from each number to arrive at the next. In the second, 5 is added to each number to arrive at the next.

6. Look at this series: 5.2, 4.8, 4.4, 4, ... What number should come next?

- A. 3
- B. 3.3
- C. 3.5
- D. 3.6

Answer: D

Explanation:

In this simple subtraction series, each number decreases by 0.4.

7. Look at this series: 8, 6, 9, 23, 87, ... What number should come next?

- A. 128
- B. 226
- C. 324
- D. 429

Answer: D

Explanation:

$$8 \times 1 - 2 = 6$$

$$6 \times 2 - 3 = 9$$



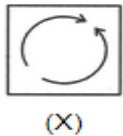
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$$9 \times 3 - 4 = 23$$

$$23 \times 4 - 5 = 87$$

$$87 \times 5 - 6 = 429 \dots$$

8. Find out the alternative figure which contains figure (X) as its part.



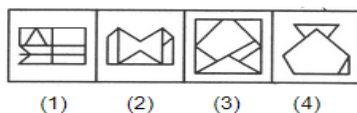
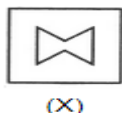
- A. 1
- B. 2
- C. 3
- D. 4

Answer: A

Explanation:



9. Find out the alternative figure which contains figure (X) as its part.



- A. 1
- B. 2
- C. 3
- D. 4

Answer: B



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Explanation:



11. Many business offices are located in buildings having 2-8 floors. If a building has more than 3 floors, it has a lift. If the above statements are true, which of the following must be true?

- A. 2nd floors do not have lifts
- B. 7th floors have lifts
- C. Only floors above the 3rd floors have lifts
- D. All floors may be reached by lifts

Answer: B

Explanation:

The question states that if the building has more than three floors than it has lift. Then the buildings, which have say five floors they have a second floor also, thus first option is wrong. The 2nd is the right answer. The third option is wrong, using same logic as in case of the first option. The 4th cannot be definitely true, because had it been the case, then even the building with two floors would have had lifts.

12. "Some men are definitely intelligent, others are definitely not intelligent, but of intermediate men, we should say, 'intelligent'? Yes, I think, so or no, I shouldn't be inclined to call him intelligent." Which of the following reflects the intention of the writer well?

- A. To call men intelligent who are not strikingly so must be to use the concept with undue imprecision
- B. Every empirical concept has a degree of vagueness
- C. Calling someone intelligent or not depends upon one's whim
- D. There is no need to be as indecisive as the writer of the above

Answer: A

Explanation:

The Writer clearly states in the last part of his statement, that he should or should not be inclined to call him intelligent. The only option, which reflects that intention, is the first option and thus is the answer.

Option B is wrong because we cannot generalise all empirical concepts to be vague on basis of this and it is irrelevant also. Option C and D are also vague.



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13. Dick and Jane each saved \$3,000 in 1989. In 1990 Dick saved 8 percent more than in 1989, and together he and Jane saved a total of \$5,000. Approximately what percent less did Jane save in 1990 than in 1989?

- A. 8%
- B. 25%
- C. 41%
- D. 59%

Answer: C

Explanation:

In 1990 Dick saved 8 percent more than the \$3,000 he saved in 1989, which amounted to $(1.08)(\$3,000)$, or \$3,240. In 1990 he and Jane together saved \$5,000. Thus, Jane must have saved only $\$5,000 - \$3,240 = \$1,760$, which is \$1,240 less than she saved in 1990. Therefore, in 1990 Jane saved approximately $\$1,240/\$3,000 = 41\%$ less than she saved in 1989. The best answer is C.

14. The regular price per can of a certain brand of soda is \$0.40. If the regular price per can is discounted 15 percent when the soda is purchased in 24-can cases, what is the price of 72 cans of this brand of soda purchased in 24-can cases?

- A. \$16.32
- B. \$18.00
- C. \$21.60
- D. \$24.48

Answer: D

Explanation:

The discounted price of one can of soda is $(0.85)(\$0.40)$, or \$0.34. Therefore, the price of 72 cans of soda at the discounted price would be $(72)(\$0.34)$, or \$24.48. The best answer is D.

15. One hour after Yolanda started walking from X to Y, a distance of 45 miles, Bob started walking along the same road from Y to X. If Yolanda's walking rate was 3 miles per hour and Bob's was 4 miles per hour, how many miles had Bob walked when they met?

- A. 24
- B. 23
- C. 22
- D. 21

Answer: A

Explanation:



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Let t be the number of hours that Bob had walked when he met Yolanda. Then, when they met, Bob had walked $4t$ miles and Yolanda had walked $3(t + 1)$ miles. These distances must sum to 45 miles, so $4t + 3(t + 1) = 45$, which may be solved for t as follows:

$$4t + 3(t + 1) = 45$$

$$4t + 3t + 3 = 45$$

$$7t = 42$$

$$T = 6 \text{ (hours)}$$

Therefore, Bob had walked $4t = 4(6) = 24$ miles when they met. The best answer is A.

16. In each of the following questions, find which one word cannot be made from the letters of the given word. ENDEAVOUR

- A. DROVE
- B. DEVOUR
- C. DROWN
- D. ROUND

Answer: C

17. In each of the following questions, find which one word cannot be made from the letters of the given word. PHARMACEUTICAL

- A. PRACTICE
- B. METRIC
- C. RHEUMATIC
- D. CRITICAL

Answer: D

18. In each of the following questions, find which one word cannot be made from the letters of the given word. QUESTIONNAIRE

- A. QUESTOR
- B. QUEUE
- C. QUINATE
- D. QUERIES

Answer: B

19. In a certain code 'CERTAIN' is coded as 'BFQUZJM'. How is 'MUNDANE' coded in that code?

- A. LVMEZOD
- B. NTCOMBF
- C. NTOCNBF



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D. LTM CZOF

Answer: A

Explanation:

Each letter moves -1, +1 alternately. So, M - 1 = L, U + 1 = V and so on. So code for MUNDANE will be LVMEZOD

20. In certain code 'HILTON' is written as 'I H T L N O'. How is 'BILLION' written in that code?

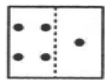
- A. IBLLION
- B. IBOILLN
- C. IBLLOIN
- D. IBLOILN

Answer: C

Explanation:

Letters are interchanged in each pair. So code of BI become IB, IO become OI. So code BILLION will be IBLLOIN

21. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



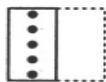
(X)



(1)



(2)



(3)



(4)

- A. 1
- B. 2
- C. 3
- D. 4



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Answer: B

22. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?

- A. 0
- B. -1
- C. 1
- D. none of these

Answer: A

23. How many doctors are both players and artists ?

- A. 22
- B. 8
- C. 3
- D. 30

Answer: C

Explanation:

The number of doctors who are both players and artists is 3.

24. How many players are neither artists nor doctors ?

- A. 25
- B. 17
- C. 5
- D. 10

Answer: A

Explanation:

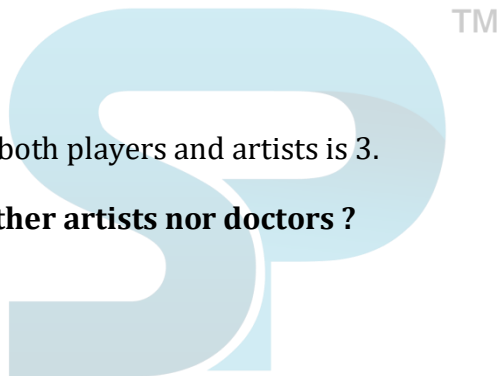
The number of players who are neither artists nor doctors is 25.

25. How many artists are neither players nor doctors ?

- A. 10
- B. 17
- C. 30
- D. 15

Answer: C

Explanation:





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The number of artists who are neither players nor doctors is 30.

26. Perilous

- A. slenderness
- B. impregnable
- C. fortified
- D. sparsity

Answer: B

Explanation:

impregnable – (of a fortified position) unable to be captured or broken into.

27. Paucity

- A. affluence
- B. impenetrable
- C. shielded
- D. inviolable

Answer: A

Explanation:

affluence – the state of having a great deal of money; wealth.

28. Retaliatory

- A. amnesty
- B. disavowed
- C. hammer
- D. castigating

Answer: D

Explanation:

Retaliatory – (of an action) characterized by a desire for revenge

29. Inclusions

- A. composition
- B. dispensation
- C. correctional
- D. disowned

1Answer: A





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Explanation:

Inclusion (Noun) – the action or state of including or of being included within a group or structure

30. Manufacturing currently contributes just over 15% to the national GDP; with the help of Make in India initiative the government aims to _____ it to 25%.

a) increase

b) rev

c) multiply

d) raise

- A. a and b
- B. a and d
- C. a only
- D. d only

Answer: B

Explanation:

rev – to increase the speed of or operate at a higher speed of something;

Raise – to cause to rise, to increase

31. The IT sector has taken a massive blow due to automation because technological advancements have _____ regular job's pie.

a) consumed

b) redundant

c) eaten into

d) lost

- A. c only
- B. a and c
- C. b only
- D. a, b, c

Answer: B

Explanation:

Consume – to use up



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Eat into – to consume gradually

Redundant – no longer required, exceeding than what is necessary

32. In the history of public management reforms in India, the year 1991 marked a _____ in the government's policies.

- a) interruption
- b) paradigm shift
- c) revolutionary disruption
- d) overhauling

- A. a only
- B. a and b
- C. b only
- D. b and c

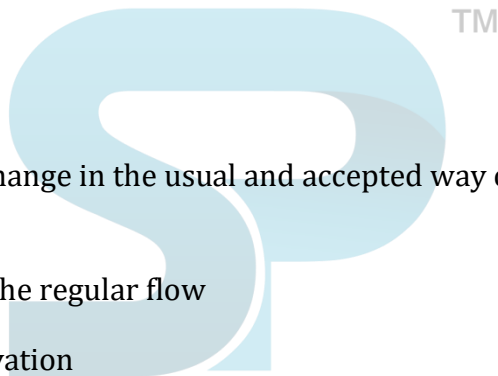
Answer: D

Explanation:

Paradigm shift – an important change in the usual and accepted way of doing or thinking about something

Disruption – an interruption in the regular flow

Overhaul – a major repair, renovation



33. ran's notification to the UN that it would launch a plan to increase its uranium enrichment capacity illustrets the risks associated with the U.S. withdrawal from the nuclear deal last month.

- A. increase
- B. enrichment
- C. illustrets
- D. withdrawal

Answer: C

34. The resolution of one high-profile case, however, should not deflect attention from the many challenges still plaguing the bankruptcy resolution process.

- A. resolution
- B. deflect
- C. plaguing



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D. bankruptcy

Answer: C

35. This is a welcome piece of legislation to the extent that it subesumes a plethora of laws that confused creditors; instead it now offers a more streamlined way to deal with troubled assets.

- A. extent
- B. subesumes
- C. streamlined
- D. troubled

Answer: B

36. In contrast to criticism from the U.S. government when the Google complaint was first lodeged and for the Apple tax bill of 2016, the White House refrained from getting involved after the EU fined Google.

- A. contrast
- B. lodeged
- C. refrained
- D. involved

Answer: B

37. Manufacturing currently contributes just over 15% to the national GDP; with the help of Make in India initiative the government aims to _____ it to 25%.

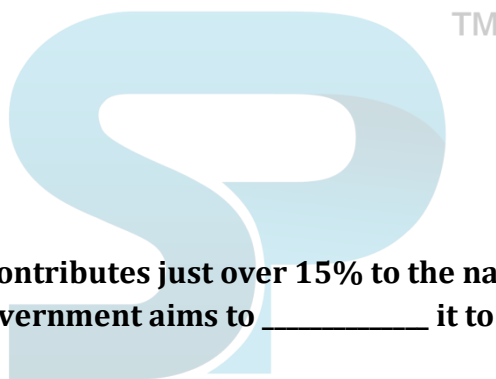
- a) increase
- b) rev
- c) multiply
- d) raise

- A. a and b
- B. a and d
- C. a only
- D. d only

Answer: B

Explanation:

rev – to increase the speed of or operate at a higher speed of something;





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Raise – to cause to rise, to increase

38. The IT sector has taken a massive blow due to automation because technological advancements have _____ regular job's pie.

- a) consumed
- b) redundant
- c) eaten into
- d) lost

- A. c only
- B. a and c
- C. b only
- D. a, b, c

Answer: B

Explanation:

Consume – to use up

Eat into – to consume gradually

Redundant – no longer required, exceeding than what is necessary

39. Even with a slew of measures aimed at digitization, digital illiteracy has _____ the ambitious scheme from realizing its documented visions.

- a) prevented
- b) deterred
- c) thwarted
- d) forestalled

- A. a and b
- B. a and c
- C. b and c
- D. All fit

Answer: D

Explanation:

Deter – to prevent something from happening



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Thwart – to prevent, to halt, to foil something

Forestall – to delay, prevent, hinder something

40. Wind : Gale

- A. Disgust : Infatuation
- B. Storm : Sea
- C. Love : passion
- D. Disaster : Calamity

Answer: C

41. Termite : Wood

- A. Neem : Cotton
- B. Fibre : Jute
- C. Thread : Cloth
- D. Moth : wool

Answer: D

42. East : Orient

- A. North : Polar
- B. North : tropic
- C. South : Capricorn
- D. West : Occident

Answer: D



Explanation:

DIRECTIONS (Q. 43- 46): In each of the questions, there's error in any two parts of the sentences. You have to identify the same and if there's no error according to you, then mark option five as your answer.

43. The novel, 'P.S I Love You' by Cecelia Ahern(A)/ is famous for it's theme(B)/ and even a film was adapted in the(C)/ same lines few years after its release(D).

- A. CD
- B. BC
- C. AD
- D. AC

Answer: B

Explanation:



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In B, replace it's by 'its'

In C, replace 'in' by 'on'

44. The labour union cannot(A)/ put forth forward their demands unless(B)/ all the decision makers in the union(C)/ don't come on the same page(D).

- A. BC
- B. AB
- C. CD
- D. BD

Answer: D

Explanation:

In B, omit 'forward'

In D, omit 'don't' as unless already been used.

45. The college is holding a (A)/ special special lecture for their students(B)/ and teachers so that they might get enlightened(C)/ about economic problems in the country(D).

- A. AC
- B. BC
- C. BD
- D. AB

Answer: B

Explanation:

In B, replace 'their' by 'its'

In C, replace 'might' by 'may'

46. The theory of relativity given(A)/ by Einstein is so complicated(B)/ as we cannot describe(C)/ that in a few sentences(D).

- A. AC
- B. BD
- C. CD
- D. BC

Answer: C

Explanation:

In C, replace 'as' with 'that'



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In D, replace 'that' with 'it'

Directions (Q.47-50): In the following questions, a paragraph is given with three blanks, followed by six words. You have to choose the most suitable combination of words among the five alternative options, that will fill the blank coherently, forming a grammatically correct and contextually meaningful paragraph. If none of the given combination is appropriate to fill the blank, mark option (e) i.e. "none of these" as your answer choice.

47. The World Trade Organisation, of late has been facing the crisis of _____. Its members are largely divided into two groups-the Developed and the Developing countries with divergent interests leading to recurring _____ in the decisions of the WTO. Rich countries bring new issues or _____ around those issues which serve their own interests only.

I. stalemate

II. harp

III. impunity

IV. germaneness

V. relevance

VI. dwell

- A. III, V, VI
- B. IV, II, I
- C. V, I, II
- D. I, III, VI



Answer: C

Explanation:

Relevance – the quality or state of being closely connected or appropriate.

Stalemate – a situation of a deadlock, no productive conclusion

Harp – talk or write persistently and tediously on (a particular topic).

48. In the post cold war era, with the rise of India and China, general _____ growth in East Asia shifted global strategic attention to Asia. this phenomenon was _____ in such notions as 'Asian Century' or 'the Rise of Asia' thesis advanced by many scholars. However within these grand _____, there was another shift caused by the expanding and diversifying interests of rising India and China, and that was the importance of Indian ocean and the western Pacific ocean dominance.



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I. rendering

II. encapsulated

III. robust

IV. sinewy

V. narratives

VI. succinctly

- A. IV, III, I
- B. III, II, V
- C. VI, I, IV
- D. III, V, I

Answer: B

Explanation:

Robust – strong and healthy; vigorous.

Encapsulated – express the essential features of (something) succinctly.

Narrative – a spoken or written account of connected events

49. There are those who _____ that growth lost steam for reasons other than demonetisation, such as introduction of GST in July 2017 and the twin balance sheet problem depressing investment in the economy, as banks refused to lend, groaning under their burden of bad debt, and large companies _____ under unserviceable loans, the counterparts to the banks' bad loans, started few large projects. Yes, allocation of blame for deceleration to individual factors is not easy, Survey made its claim after some statistical exertions. What is not hard to identify is the common thread running through all three _____ — poor economic management.

I. maladies

II. quibble

III. hark

IV. relinquished

V. squashed

VI. prerequisites

- A. II, V, I



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- B. III, IV, VI
- C. II, I, IV
- D. V, III, I

Answer: A

Explanation:

Quibble – a slight objection or criticism.

Squashed – crush or squeeze (something) with force so that it becomes flat, soft, or out of shape.

Maladies – a serious problem.

50. The sudden but not unexpected _____ of people on the streets of Ayodhya is unfortunate. The BJP government, both at the Centre and in Uttar Pradesh, should prevent those attempting to stir the communal _____ instead of supporting them to gain electoral mileage. This development does not _____ well for a secular democracy that is governed by the rule of law.

- I. cauldron
- II. disrupt
- III. mobilisation
- IV. panacea
- V. portend
- VI. mockery



- A. IV, V, I
- B. III, I, V
- C. VI, II, IV
- D. III, I, V

Answer: B

Explanation:

Mobilisation – the action of making something movable or capable of movement.

Cauldron – a situation characterized by instability and strong emotions.

Portend – be a sign or warning that (something, especially something momentous or calamitous) is likely to happen.



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51. Which one of the following is not a prime number?

- A. 31
- B. 61
- C. 71
- D. 91

Answer: D

Explanation:

91 is divisible by 7. So, it is not a prime number.

52. What least number must be added to 1056, so that the sum is completely divisible by 23 ?

- A. 2
- B. 3
- C. 18
- D. 21

Answer: A

Explanation:

23) 1056 (45

92

136

115

21

Required number = (23 - 21)

= 2.

53. 4.036 divided by 0.04 gives :

1.009

10.09





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100.9

None of these

Answer: C

Explanation:

$$\frac{4.036}{0.04} = \frac{403.6}{4} = 100.9$$

54. $34.95 + 240.016 + 23.98 = ?$

- A. 298.0946
- B. 298.111
- C. 298.946
- D. 299.09

Answer: C

Explanation:

$$\begin{array}{r} 34.95 \\ 240.016 \\ + 23.98 \\ \hline 298.946 \\ \hline \end{array}$$



55. Which of the following is equal to 3.14×10^6 ?

- A. 314
- B. 3140
- C. 3140000
- D. None of these

Answer: C

Explanation:

$$3.14 \times 10^6 = 3.14 \times 1000000 = 3140000.$$

56. If the sides of a triangle are 26 cm, 24 cm and 10 cm, what is its area?



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- A. 120 cm^2
- B. 130 cm^2
- C. 312 cm^2
- D. 315 cm^2

Answer: A

Explanation:

The triangle with sides 26 cm, 24 cm and 10 cm is right angled, where the hypotenuse is 26 cm.

$$\text{Area of the triangle} = \frac{1}{2} * 24 * 10 = 120 \text{ cm}^2$$

57. The perimeter of a triangle is 28 cm and the in radius of the triangle is 2.5 cm. What is the area of the triangle?

- A. 25 cm^2
- B. 42 cm^2
- C. 49 cm^2
- D. None of these

Answer: D

Explanation:

$$\text{Area of a triangle} = r * s$$

Where r is the in radius and s is the semi perimeter of the triangle.

$$\text{Area of triangle} = 2.5 * 28/2 = 35 \text{ cm}^2$$



58. In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed is:

- A. 5 kmph
- B. 6 kmph
- C. 6.25 kmph
- D. 7.5 kmph

Answer: A

Explanation:

Let Abhay's speed be x km/hr.

$$\text{Then, } \frac{30}{x} - \frac{30}{2x} = 3$$

$$6x = 30$$



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$x = 5$ km/hr.

59. A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is:

- A. 35.55 km/hr
- B. 36 km/hr
- C. 71.11 km/hr
- D. 71 km/hr

Answer: C

Explanation:

$$\text{Total time taken} = \left(\frac{160}{64} + \frac{160}{80}\right)\text{hrs} = \frac{9}{2}\text{ hrs}$$

$$\text{Average speed} = \left(320 * \frac{2}{9}\right) \text{ km/hr} = 71.11 \text{ km/hr}$$

60. A and B can together finish a work 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the work?

- A. 40
- B. 50
- C. 54
- D. 60

Answer: D

Explanation:

$$(A + B)\text{'s } 20 \text{ day's work} = \left(\frac{1}{30} * 20\right) = \frac{2}{3}$$

$$\text{Remaining work} = \left(1 - \frac{2}{3}\right) = \frac{1}{3}$$

Now, $\frac{1}{3}$ work is done by A in 20 days.

Therefore, the whole work will be done by A in $(20 \times 3) = 60$ days.

61. 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

- A. 3
- B. 5



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- C. 7
- D. Cannot be determined

Answer: C

Explanation:

$$1 \text{ woman's 1 day's work} = \frac{1}{70}$$

$$1 \text{ child's 1 day's work} = \frac{1}{140}$$

$$(5 \text{ women} + 10 \text{ children})'s \text{ day's work} = \left(\frac{5}{70} + \frac{10}{140}\right) = \left(\frac{1}{14} + \frac{1}{14}\right) = \frac{1}{7}$$

5 women and 10 children will complete the work in 7 days.

62. A toy is sold for Rs.336, if the % of profit is equal to cost price, then find CP ?

- A. 137
- B. 140
- C. 135
- D. 120

Answer: B

Explanation:

$$(100+x)\% \text{ of } X = 336$$

$$100x + x^2 = 33600$$

$$x^2 + 100x - 33600 = 0$$

$$(x+240x)(x-140x) = 0$$

$$X = 140$$



63. A bought 'X' quantity of pencils for Rs.500 and he sold 2/5 part for 5% loss and at which percent he must sell his rest of the quantity so that he would gain overall 10% profit ?

- A. 10%
- B. 20%
- C. 17%
- D. 15%

Answer: B

Explanation:



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$$500 \times \frac{2}{5} = 200$$

$$5\%L = \frac{200 \times 95}{100} = 190$$

$$500 + 10 + \left(\frac{500 \times 10}{100}\right) = 510 + 50 = 560$$

$$60/500 * 100 = 20\%$$

64. A man gains 15% by selling an article for a certain price. If he sells it at double the price, then the % of profit will be

- A. 130%
- B. 115%
- C. 30%
- D. 40%

Answer: A

Explanation:

$$CP = 100, 15\% \text{ GAIN} = 115$$

$$SP = 230$$

$$P = 230 - 100 = 130$$

$$\% = 130\%$$

65. $(8.01)^2 + ? = (8.97)^2$ What will approximately come in place of question mark?

- A. 13
- B. 14
- C. 19
- D. 16

Answer: D

Explanation:

square root and cube root

Here there is no need to calculate exact values

8.01 is nearer to 8 and 8.97 is nearer to 9

So take the values 8 and 9

Only option D i.e., 16 is nearest to or matches 17.





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66. 4, 4, 6, 12, 30, ?

- A. 97
- B. 92
- C. 95
- D. 90

Answer: D

Explanation:

$$4 * 1 = 4$$

$$4 * 1.5 = 6$$

$$6 * 2 = 12$$

$$12 * 2.5 = 30$$

$$30 * 3 = 90$$

67. 10 5 5 10 40 ?

- A. 350
- B. 320
- C. 360
- D. 370

Answer: B

Explanation:

$$10 * 0.5 = 5$$

$$5 * 1 = 5$$

$$5 * 2 = 10$$

$$10 * 4 = 40$$

$$40 * 8 = 320$$

68. If $\tan\theta + \cot\theta = 16$, then find the ratio of $\tan^2\theta + \cot^2\theta$ to $\tan^2\theta + \cot^2\theta + 20 \tan\theta \cot\theta$

- A. 64 : 65
- B. 129 : 137
- C. 27 : 29
- D. 127 : 137





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Answer: D

Explanation:

Given, $\tan\theta + \cot\theta = 16$

Squaring both sides, we get

$$\tan^2\theta + 2\tan\theta \cdot \cot\theta + \cot^2\theta = 256$$

$$\text{or, } \tan^2\theta + \cot^2\theta = 256 - 2$$

$$\therefore \tan^2\theta + \cot^2\theta = 254$$

Now, $\tan^2\theta + \cot^2\theta + 20\tan\theta \cdot \cot\theta$

$$= (\tan^2\theta + \cot^2\theta) + 20\tan\theta \cdot \frac{1}{\tan\theta}$$

$$= 254 + 20 = 274$$

$$\therefore \text{Reqd. ratio} = \frac{254}{274} = \frac{127}{137} = 127 : 137$$

Hence, option D is correct.

69. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:

- A. 588 apples
- B. 600 apples
- C. 672 apples
- D. 700 apples

Answer: D

Explanation:

Suppose originally he had x apples.

Then, $(100 - 40)\%$ of $x = 420$.

$$\frac{60}{100} * X = 420$$

$$X = \left(\frac{420 * 100}{60}\right) = 700$$

70. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

- A. 1



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- B. 14
- C. 20
- D. 21

Answer: C

Explanation:

Clearly, the numbers which have 1 or 9 in the unit's digit, have squares that end in the digit 1. Such numbers from 1 to 70 are 1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69.

Number of such number = 14

Required percentage = $(\frac{14}{70} * 100) \% = 20\%$.

71. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is of the number of students of 8 years of age which is 48. What is the total number of students in the school?

- A. 72
- B. 80
- C. 120
- D. 100

Answer: D

Explanation:

Let the number of students be x. Then,

Number of students above 8 years of age = $(100 - 20)\%$ of x = 80% of x.

80% of x = 48 + $\frac{2}{3}$ of 48

$$\frac{80}{100}x = 80$$

$$x = 100.$$

72. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:

- A. 2700
- B. 2900
- C. 3000
- D. 3100





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Answer: A

Explanation:

Number of valid votes = 80% of 7500 = 6000.

Valid votes polled by other candidate = 45% of 6000

$$\left(\frac{45}{100} * 6000\right) = 2700$$

73. Gauri went to the stationers and bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?

- A. Rs. 15
- B. Rs. 15.70
- C. Rs. 19.70
- D. Rs. 20

Answer: C

Explanation:

Let the amount taxable purchases be Rs. X

$$\text{Then, } 6\% \text{ of } x = \frac{30}{100}$$

$$x = \left(\frac{300}{100} * \frac{100}{6}\right) = 5$$

Cost of tax free items = Rs. [25 - (5 + 0.30)] = Rs. 19.70

74. Mr. Ramesh has three daughters namely Rohini, Anita and Keerthi. Rohini is the eldest daughter of Mr. Ramesh while Keerthi is the youngest one. The present ages of all three of them are square numbers. The sum of their ages after 5 years is 44.

Quantity I: The age of Rohini and Anita after two years

Quantity II: The age of Rohini and Keerthi after four years

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I ≥ Quantity II
- D. Quantity I ≤ Quantity II

Answer: A





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Explanation:

Square numbers – a, b, c

$$(a + 5) + (b + 5) + (c + 5) = 44$$

$$a + b + c = 44 - 15 = 29$$

Possible values of a, b, c = 4, 9, 16 [Out of 1, 4, 9, 16, 25] The age of Rohini and Anita after two years = 29; The age of Rohini and Keerthi after four years = 28

75. Person A sold his car to Person B at a profit of 20% and B sold it to C at a profit of 10%. Person C sold it to a mechanic at a loss of 9.09%. Mechanic spent 10% of his purchasing price and then sold it at a profit of 8.33% to Person "A" once again

Quantity I: Selling Price of A

Quantity II: Selling Price of C

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I ≥ Quantity II
- D. Quantity I = Quantity II or relation cannot be established TM

Answer: D

Explanation:

$$CP = 100$$

$$SP = 120$$

B:

$$CP = 120$$

$$SP = 132$$

C:

$$CP = 132$$

$$SP = 120$$

Mechanic:

$$CP = 120 + 12 = 132$$

$$SP = 143$$

76. Which Indian shooter has won the silver medal in men's 10m air pistol event in the 14th Asian Shooting Championship 2019 in Doha?

- A. Abhishek Verma
- B. Sarabjot Singh
- C. Saurabh Chaudhary
- D. Paarth Makhija

Answer: C



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77. Which of the following shooters has won the gold medal in men's 10m air pistol event in the 14th Asian Shooting Championship 2019 in Doha?

- A. Kim Song Guk
- B. Saurabh Chaudhary
- C. Foroughi Javed
- D. Joseph Gulfam

Answer: A

78. Which cricketer has become the fastest cricketer to score 7,000 Test runs?

- A. Joe Root
- B. Eoin Morgia
- C. Steve Smith
- D. BenStokes

Answer: C

79. Anandan Gunasekaran, who was in news recently is associated with which sport?

- A. Shotput Tennis
- B. Para-athletics
- C. Badminton
- D. Javelin Throw

Answer: B

80. Who won the women's double trap titles at the 63rd National Shotgun Shooting Championship in New Delhi on 25th November, 2019?

- A. Heena Sidhu
- B. Mahima Vishwakarma
- C. Varsha Varman
- D. Manisha Keer

Answer: C

81. Lal Krishna Advani was the _____ Deputy Prime Minister of India.

- A. Fourth
- B. fifth
- C. Sixth
- D. seventh



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Answer: D

82. Sukumar Sen was....

- A. the first Chief Justice of the Supreme Court of India
- B. the first Chief Election Commissioner of India
- C. the first Speaker of the Lok Sabha
- D. the first Governor of an Indian State

Answer: B

83. The first Battle of Panipat took place in.....

- A. 1498
- B. 1516
- C. 1526
- D. 1532

Answer: C

84. Which of the following represents the original number of officially recognized languages enshrined in the Indian Constitution?

- A. 14
- B. 16
- C. 18
- D. 22

Answer: D

85. The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river.

- A. Ganga
- B. Cauvery
- C. Godavari
- D. Narmada

Answer: C

86. The percentage of irrigated land in India is about.

- A. 45
- B. 65



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- C. 35
- D. 25

Answer: C

87. The southernmost point of peninsular India, that is, Kanyakumari, is

- A. north of Tropic of Cancer
- B. south of the Equator
- C. south of the Capricorn
- D. north of the Equator

Answer: D

88. The pass located at the southern end of the Nilgiri Hills in south India is called

- A. the Palghat gap
- B. the Bhorghat pass
- C. the Thalghat pass
- D. the Bolan pass

Answer: A

89. Our financial system has provided for the transfer of resources from the centre to the states; the important means of resource transfer are

- A. tax sharing
- B. grant-in-aids
- C. loans
- D. All the above

Answer: D

90. Debenture holders of a company are its

- A. shareholders
- B. creditors
- C. debtors
- D. directors

Answer: B

91. Excise duty is a tax levied on the

- A. import of goods
- B. export of goods



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- C. production of goods
- D. sale of goods

Answer: C

92. Which of the following is the first Indian private company to sign an accord with Government of Myanmar for oil exploration in two offshore blocks in that country?

- A. Reliance Energy
- B. Essar Oil
- C. GAIL
- D. ONGC

Answer: B

93. Non Tax revenues can be increased by improving the working of the

- A. State Road Transport Corporations
- B. electricity boards
- C. commercial irrigation projects
- D. All of the above

Answer: C

94. In poorly ventilated buildings which one of the following inert gases can be accumulated?

- A. Helium
- B. Neon
- C. Argon
- D. Radon

Answer: D

95. Which one of the following bacteria present in the soil produces a peculiar smell if it rains on perched soil?

- A. Streptomyces
- B. Staphylococcus
- C. Diplomyces
- D. Micrococcus

Answer: A

96. Which one of the following elements the drum of a Photostat machine is made up of:



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- A. Aluminium
- B. Selenium
- C. Barium
- D. Caesium

Answer: B

97. Which one of the following waves are used by the common TV remote control?

- A. Radio waves
- B. Lasers
- C. Infrared waves
- D. Ultrasonic waves

Answer: C

98. Who won the women's title at the 77th Senior National Squash Championship?

- A. Sunayna Kuruvilla
- B. Joshna Chinappa
- C. P.V Sindhu
- D. Dipika Pallikal Karthik



Answer: B

99. Who won the TATA Steel PGTI Players Championship?

- A. S. S. P. Chawrasia
- B. Aman Raj
- C. Chiragh Kumar
- D. Udayan Mane

Answer: D







100. Who won the FIH Men's Player of the Year award?

- A. Rupinder Pal Singh
- B. Sreejesh Parattu Raveendran
- C. Akashdeep Singh
- D. Manpreet Singh

Answer: D



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