

SSC

SELECTION POST HIGHER SECONDARY LEVEL



MODEL PAPER 1



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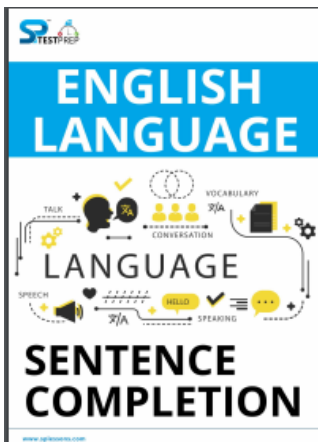
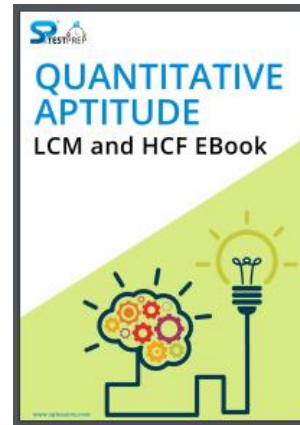
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1. Garbage : House :: Gangue : ?

- A. Factory
- B. Office
- C. Drugs
- D. Ore

Answer: D

Explanation:

Garbage - is the waste of House.

Gangue - impurities in the Ore.

Hence, option D is correct.

2. Demographer : People :: Philatelist : ?

- A. Fossils
- B. Stamps
- C. Photography
- D. Music

Answer: B

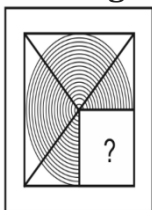
Explanation:

As a demographer collects information about people, a philatelist collects stamps.

Hence, option B is correct

3. In the following question, which answer figure will complete the question figure?

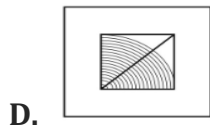
Question figure:



- A.
- B.
- C.



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Answer: C

4. What number will follow the given series of numbers: 3, 6, 11, __?

- A. 13
- B. 16
- C. 18
- D. 22

Answer: B

Explanation:

First term = $[1]^2 + 2 = 3$;

which is the given first term.

Second term of the series = $[2]^2 + 2 = 6$;

Again the second term. And the third term = $[3]^2 + 2 = 11$; which is the third term of the given series.

Hence the rule is correct and we can use it to find the missing term.

The missing term is = $[4]^2 + 2 = 18$. Hence the answer is 18.

5. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

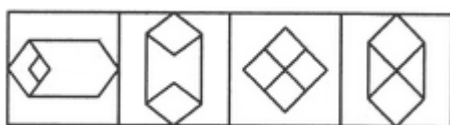
- A. 7
- B. 10
- C. 12
- D. 13

Answer: B

Explanation:

This is a simple alternating addition and subtraction series. In the first pattern, 3 is added; in the second, 2 is subtracted.

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



- A. B. C. D.



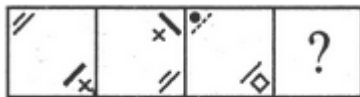
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Answer: B

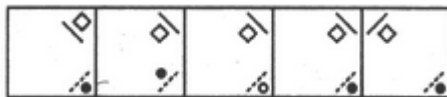
Explanation:



7. Select a suitable figure from the Answer Figures that would replace the question mark (?).



(A) (B) (C) (D)



A B C D E

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Answer: B

Explanation:

The combination of two symbols placed at the lower-right corner, rotates 90°CW and moves to the Upper-right corner. Also, the combination of two symbols placed at the upper-left corner, moves to the lower-right corner.

8. 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.



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"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."

9. 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.

10. Select the one which is different from the other three responses.

- A. Duckling
- B. Cub
- C. Kitten
- D. Puppy

Answer: A

Explanation:

Cub – Lion; Puppy – Dog; Kitten – Cat

11. Increasing the original price of an article by 15 percent and then increasing the new price by 15 percent is equivalent to increasing the original price by:

- A. 32.25%
- B. 31.00%
- C. 30.25%
- D. 30.00%

Answer: A

Explanation:



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If p is the original price, then the 15 percent increase in price results in a price of $1.15p$. The next 15 percent increase in price results in a price of $1.15(1.15p)$, or $1.3225p$. Thus, the price increased by $1.3225p - p = 0.3225p$, or 32.25% of p . The best answer is A.

12. A chained structure of letters are numbered as 1,2,3,4,5 and 6. In the options, four possible arrangements of these numbers are given. Choose the option so that it forms a meaningful word.

P L Y C O M

1 2 3 4 5 6

- A. 1,4,3,2,5,6
- B. 4,5,6,1,2,3
- C. 6,5,4,3,2,1
- D. 1,2,3,4,5,6

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Answer: A

13. Emotional intelligence can be studied through ...

- A. the abilities-focussed approach
- B. the integrative model approach
- C. the mixed model approach
- D. all of the above

Answer: D

14. When predicting intellectual academic performance in medical students, EI showed ...

- A. it is essentially social skills
- B. large incremental validity
- C. no incremental validity
- D. a deterioration in its display

Answer: C

Explanation:

no incremental validity

15. In a certain code 'SEQUENCE' is coded as 'FDOFVRFT'. How is 'CHILDREN' coded in that code?

- A. OFESJMID
- B. OFSEMJI
- C. OFSEJIMD



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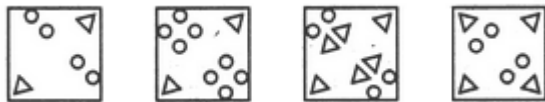
D. OFSEJMID

Answer: B

Explanation:

Reverse the word and +1 to each letter. The reverse of CHILDREN is NERDLIHC. add 1 to each letter. Therefore, the code of CHILDREN becomes OFSEMJD.

16. Choose a figure which would most closely resemble the unfolded form of Figure (Z).



A. B. C. D.

Answer: Option B

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

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

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

18. Which of the following pairs of words have the same relationship as FAN : HEAT?

- A. Water : Drink
- B. Light : Night
- C. Teach : Student
- D. Food : Hunger

Answer: D

19. If the population of a certain country increases at the rate of one person every 15 seconds, by how many persons does the population increase in 20 minutes?

A. 80



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- B. 100
- C. 150
- D. 240

Answer: A

Explanation:

Since the population increases at the rate of 1 person every 15 seconds, it increases by 4 people every 60 seconds, that is, by 4 people every minute. Thus, in 20 minutes the population increases by $20 \times 4 = 80$ people. The best answer is A.

20. 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. 19.5

Answer: D

Explanation:

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:

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

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

$$7t = 42$$

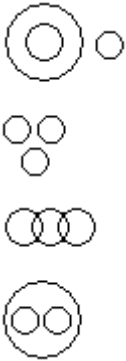
$$T = 6 \text{ (hours)}$$

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

21. Which of the following diagrams indicates the best relation between Travelers, Train and Bus ?



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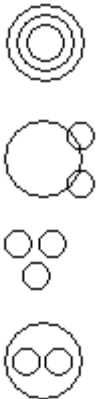


Answer: C

Explanation:

Bus and Train are different from each other but some travelers travel by bus and some travel by train.

22. Which of the following diagrams indicates the best relation between Factory, Product and Machinery ?



Answer: D

Explanation:

Product and Machinery are different from each other but both are found in Factory.

23. The following letters of the word are not in order. If they will be arranged in proper order then which synchronised word can be created from the letters?

ERDROISD

- A. DISTRESS
- B. DISORDER
- C. DIAGONISIS
- D. DISTRUB

Answer: B



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Explanation:

The word is DISORDER.

**24. Write the meaningful word that can be formed from the following series of letters;
SOMOPHSICL**

- A. ACCOMPLISH
- B. COMPLAIN
- C. COSMOPOLISH
- D. NONE OF THESE

Answer: C

Explanation:

Eliminate option A and B on the basis of non availability of letter A and in the given series.

25. Sepal : Flower ::

- A. Foot : Ball
- B. Tyre : Bicycle
- C. Puppy : Dog
- D. Sandals : Shoes

Answer: B

Explanation:

As sepals typically function as protection for the flower in bud, a tyre protects bicycle.

Hence, option B is correct.

Directions (Q.26-30): Read the following passage carefully and answer the questions given below it. Certain parts are given in bold to answer some of the questions based on the passage.

Sometimes to upend entrenched power structures, a revolution is required. Naming and shaming powerful men in the #MeToo campaign is in many ways a revolutionary act. The truth about most was known, spoken in whispers, but not to their face. But now that **omerta has been broken** by some **intrepid** women, there's a **palpable** sense of power and possibility.

Revolutions are by definition anarchic, as they are aimed against those who make and enforce the rules. So it has been with #MeToo. Men are named, sometimes anonymously, and the naming itself requires punitive action to be taken against them. There isn't really any room for discussion on context or degree of culpability. Some have raised questions about due process, and the response has been, somewhat reasonably, that due process has failed. And it is true, arguing for due process when due process has failed feels a bit like batting for status quo. So let it be said, #MeToo despite its limitations is unreservedly a good development. However, the question is, what next? The #MeToo movement is more than just outing powerful men, it is about shifting the balance of power between men and women, transferring the punitive aspects — shame, denial of work opportunities — from the victim to the perpetrator. It is about ending impunity embedded in our social construct by



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shaping new social mores. This is and has to be a collective effort, and it is important for the #MeToo movement to have these discussions.

Let the burden of shame now be shifted to where it is supposed to- the perpetrators and not the women; the victims. It's the woman who has to hide from the world. And by and large, due to this very fact prevailing in Indian society that many women ultimately choose to leave their jobs, or seek employment elsewhere, when they confront inappropriate behaviour from their colleagues.

Another very important aspect which should be taken care of is that of equality, where there's no inhibitions, no sense of caution. Women need healthy **camaraderie** in place of needless caution. Respect, not condescension. They would like colleagues to engage with them, not be patronising. And the fact that they are still having to demand these is telling.

26. Against whom the writer suggests are revolutions usually aimed at ?

- A. the guilty men
- B. perpetrators
- C. against the government agencies
- D. those who make and enforce laws

Answer: D

27. Which of the following statements is not true according to the passage ?

- A. just naming and shaming the perpetrators does not account for culpability
- B. due process has failed leading to crimes
- C. sexual harassment is anything that makes a woman uncomfortable
- D. the campaign has broken the power structures

Answer: A

28. Which one of the following is most similar in meaning to "INTREPID" ?

- A. adventurous
- B. docile
- C. submissive
- D. fearless

Answer: D

29. What is meant by the phrase 'omerta has been broken' ?

- A. crimes against women has stopped
- B. men have started fearing law
- C. silence has been broken and more women are coming up
- D. crime racket has been busted

Answer: C

30. Which of the following is most similar in meaning to "PALPABLE" ?

- A. enraged



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- B. disgusted
- C. nefarious
- D. noticeable

Answer: D

31. Fringe elements, in the name of cow protection has appeared to be(A) / on the prowl and operating with impunity in some of the states(B) /. The unchecked manner in that they are unleashing violence(C) / without the fear of law and order is a matter of serious concern.(D)

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

Answer: B

Explanation:

Replace 'has appeared' with 'appear'

Replace 'that' with 'which'

32. The national Nutrition Mission was supposed to be(A) / game changer in terms of malnutrition in India(B) /. Unfortunately , it act like a governing body which measures malnutrition(C)/ rather than it worked in a holistic way.(D)

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

Answer: C

Explanation:

Replace 'act' with 'acts'

Replace 'it worked' with 'working'

33. Incidents of stubble burning following the harvests of paddy crop in Punjab and Haryana(A)/ cannot be avert from imposing fines,(B)/ or giving notice or giving farmers capital subsidy(C)/. Instead, the issue require long term vision and strategic policy interventions.(D)

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

Answer: B



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Explanation:

Replace 'avert from' with 'averted by'

Replace 'require' by 'requires'

34. There is mutual and public interest and curbing arbitrariness, in this instance the governor or President's space to act in a partisan manner.

- A. on reviewing such the loopholes
- B. for reviewed such loopholes
- C. at reviewing such loophole
- D. in reviewing such loopholes

Answer: D

35. Sharif stated that terrorist organisations were thriving in Pakistan and 'non-state actors' in Mumbai.

- A. were responsible for the carnages
- B. were responsible for the carnage
- C. was responsible for the carnage
- D. had responsible for the carnage

Answer: B

36. Jab we first met at Delhi airport, our flight to Srinagar, most of us were strangers.

- A. a hour before we were of board
- B. an hour before we was for boards
- C. an hour before we had of board
- D. an hour before we were to board

Answer: D

Directions (Q. 37-40): Given below are six sentences (A) (B) (C) (D) (E) and (F). Answer the following questions after rearranging the following sentences into a coherent paragraph.

(A) Then to improve the primary education needs holistic approach. At present schools are not teaching even the basics effectively. This requires government schools to offer specific skills.

(B) Before completing the education practical knowledge should be given. Development of the rural areas will stop the migration of the rural people to the urban cities and this will not put more pressure on the urban city jobs.

(C) Urgent steps to increase productive employment are essential for social cohesion, sustainable growth and to constructively harness the energy of youth. This can be divided into short-medium and long term measures.

(D) The quality of Indian education is always in every growth narrative and every time there's a demand for massive improvement. The syllabus taught is of no use to the industries so the education should be as per the current requirements of the industries.

(E) The skills gap is one of the higher hurdles in the employment race in which consistent effort is required to be able to get ahead. If this succeeds, an economic win and growth dividend could be bigger prize.



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(F) Addressing current skills shortages, and be flexibly adaptable to the nature of the workforce and to the industry requirements can be sorted as initial short measures.

37. Considering statement (F) “ Addressing current skills shortages, and be flexibly adaptable to the nature of the workforce and to the industry requirements can be sorted as initial short measures.” as the Fourth statement of the rearranged paragraph, then which of the following becomes the THIRD statement of the rearrangement ?

- A. E
- B. B
- C. C
- D. A

Answer: C

38. Considering statement (F) “ Addressing current skills shortages, and be flexibly adaptable to the nature of the workforce and to the industry requirements can be sorted as initial short measures.” as the Fourth statement of the rearranged paragraph, then which of the following becomes the FIFTH statement of the rearrangement ?

- A. E
- B. B
- C. D
- D. A

Answer: D

39. Considering statement (F) “ Addressing current skills shortages, and be flexibly adaptable to the nature of the workforce and to the industry requirements can be sorted as initial short measures.” as the Fourth statement of the rearranged paragraph, then which of the following becomes the SECOND statement of the rearrangement ?

- A. A
- B. C
- C. E
- D. B

Answer: D

40. Among the following pairs which one of them is formed with two consecutive statements after the rearrangement?

- A. F-E
- B. C-F
- C. D-C
- D. B-F

Answer: B



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41. The BCCI's elbow room has shrunk, and it is expected that the chastised board will toe the line, though this has time till October 6 to file a reply in the Supreme Court.

- A. though it have time till
- B. though this have time until
- C. though it has time till
- D. though it has time until

Answer: C

42. The Chinese hold lapsed on Monday, and have it not raised an objection, the resolution designating Azhar a terrorist would have been passed automatically.

- A. have it not raise an objection
- B. had this not raised an objection
- C. had it not raised an objection
- D. has it not raised an objection

Answer: C

43. The manager called the clerk and said whether he was in the habit of sleeping at home as well.

- A. calls the clerk and says if
- B. called the clerk and asked whether
- C. called the clerk and said if
- D. call the clerk and ask whether

Answer: B

Explanation:

according to "was" it should be called so option A and D are wrong. Also whether is used so it indicates interrogative sense of sentence so asked is used instead of said

Because said – utter words so as to convey information, an opinion

Asked – say something in order to obtain an answer or some information

44. Befogged

- A. freehanded
- B. bullheaded
- C. clear headed
- D. loaded

Answer: C

Explanation:

Befogged- incapable of clear thought



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45. Baroque

- A. plain
- B. implicate
- C. vacant
- D. altitude

Answer: A

Explanation:

Baroque – relating to the highly decorated style in buildings, art and music

46. Camouflage

- A. jargon
- B. reveal
- C. nasty
- D. ordeal

Answer: B

Explanation:

Camouflage – hide or disguise the presence of

Directions (Q. 47-50): In the given sentences a blank is given indicating that something is missing. From the given four options, (1), (2), (3), (4), a combination of words would fit the blank thereby making it grammatically and contextually correct. Select that option as the answer. If all the given combinations fit perfectly, then select 'All fit' as the answer.

47. And as Mark twain's _____ goes; Facts are stubborn things but statistics are pliable.

- I. paroemia
- II. dictum
- III. adage
- IV. platitude

- A. II,III
- B. I,IV
- C. III
- D. All fit

Answer: D

Explanation:

Paroemia, dictum, adage, platitude – a short statement that expresses a saying, general truth or principle.



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48. In today's scenario it may not be an overstatement to say that there are many sections of people who feel that their religious _____ is being compromised.

- I. aphorism
- II. venereal
- III. piety
- IV. proclamation

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

Answer: B

Explanation:

Piety – reverence and devotion to god, devout act or thought

49. In the backdrop of shock measures like demonetisation and GST, the popular approval from Moody's ratings agency somewhat _____ the government.

- I. petrified
- II. exonerate
- III. vindicated
- IV. ruled

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

Answer: D

Explanation:

Vindicated, exonerated – (of an official body) absolve (someone) from blame for a fault or wrongdoing.

50. Cow vigilantes need to be better informed and less _____ in their outlook.

- I. zealot
- II. insular
- III. stark
- IV. parochial

- A. II,IV
- B. I
- C. III,IV



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D. I,II,IV

Answer: D

Explanation:

Parochial, zealot, insular – narrow in thinking and scope

51. Simplify $586645 * 9999$

- A. 5865863355
- B. 5665863355
- C. 4865863355
- D. 4665863355

Answer: A

Explanation:

Although it is a simple question, but the trick is to save time in solving this.

Rather than multiplying it we can do as follows:

$$586645 * (10000 - 1) = 5866450000 - 586645 = 5865863355$$

52. What decimal of an hour is a second ?

- A. 0025
- B. 0256
- C. 00027
- D. 000126

Answer: Option C

Answer: C

Explanation:

$$\frac{1}{60*60} = \frac{1}{3600} = 00027$$

53. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

- A. 39, 30
- B. 41, 32
- C. 42, 33
- D. 43, 34

Answer: C



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Explanation:

Let their marks be $(x + 9)$ and x .

$$\text{Then, } x + 9 = \frac{56}{100} (x + 9 + x)$$

$$25(x + 9) = 14(2x + 9)$$

$$3x = 99$$

$$x = 33$$

So, their marks are 42 and 33.

54. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

- A. Rs. 500
- B. Rs. 1500
- C. Rs. 2000
- D. None of these

Answer: C

Explanation:

Let the shares of A, B, C and D be Rs. $5x$, Rs. $2x$, Rs. $4x$ and Rs. $3x$ respectively.

$$\text{Then, } 4x - 3x = 1000$$

$$x = 1000.$$

$$\text{B's share} = \text{Rs. } 2x = \text{Rs. } (2 \times 1000) = \text{Rs. } 2000.$$

55. The least perfect square, which is divisible by each of 21, 36 and 66 is:

- A. 213444
- B. 214344
- C. 214434
- D. 231444

Answer: A

Explanation:

$$\text{L.C.M. of } 21, 36, 66 = 2772.$$

$$\text{Now, } 2772 = 2 \times 2 \times 3 \times 3 \times 7 \times 11$$

To make it a perfect square, it must be multiplied by 7×11 .

$$\text{So, required number} = 2^2 \times 3^2 \times 7^2 \times 11^2 = 213444$$

56. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is:

- A. 6.06%



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- B. 6.07%
- C. 6.08%
- D. 6.09%

Answer: D

Explanation:

Amount of Rs. 100 for 1 year

when compounded half-yearly = $Rs. 100 \times \left(1 + \frac{3}{100}\right)^2 = Rs. 106.09$

Effective rate = $(106.09 - 100)\% = 6.09\%$

57. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

- A. 15
- B. 16
- C. 18
- D. 25

Answer: B

Explanation:

Let C.P. of each article be Re. 1 C.P. of x articles = Rs. x.

S.P. of x articles = Rs. 20.

Profit = Rs. (20 - x).

$$\left(\frac{20-x}{x} \times 100\right) = 25$$

$$2000 - 100x = 25x$$

$$125x = 2000$$

$$x = 16.$$

58. If Rs. 10 be allowed as true discount on a bill of Rs. 110 due at the end of a certain time, then the discount allowed on the same sum due at the end of double the time is:

- A. Rs. 20
- B. Rs. 21.81
- C. Rs. 22
- D. Rs. 18.33

Answer: D

Explanation:

S.I. on Rs. (110 - 10) for a certain time = Rs. 10.



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S.I. on Rs. 100 for double the time = Rs. 20.

T.D. on Rs. 120 = Rs. (120 - 100) = Rs. 20.

T.D. on Rs. 110 = Rs. $(\frac{20}{100} * 110)$ = Rs. 18.33

59. The length of a rectangle wall is $\frac{3}{2}$ times of its height. If the area of the wall is 600m^2 . What is the sum of the length and height of the wall?

- A. 40
- B. 60
- C. 50
- D. 70

Answer: C

Explanation:

length = $2x$

height = $3x$

Area of the wall = $3x * 2x = 6x^2 = 600$

$x = 10$; Sum of the length and height of the wall = 50

60. If the area of a circle is 616cm^2 whose diameter is equal to radius of a semicircle. Find the perimeter of the semicircle?

- A. 184 cm
- B. 154 cm
- C. 144 cm
- D. 164 cm

Answer: C

Explanation:

Area of a circle = 616cm^2

$\pi r^2 = 616$; $r = 14$

D = Radius of Semi Circle = 28

Perimeter of the semicircle = $\pi r + 2r = 144\text{cm}$

61. A rectangular ground 16m long and 10m breadth. It has a gravel path 2.5m wide all around it on the outside. What is the area of the path?

- A. 159 m^2
- B. 155 m^2
- C. 187 m^2
- D. 183 m^2

Answer: B



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Explanation:

$$\text{Area of ground} = 16 * 10 = 160$$

$$\text{Total area (ground + path)} = (16 + 5)*(10 + 5) = 315$$

$$\text{Area of path} = 315 - 160 = 155 \text{ m}^2$$

62. If the side of the square is increased by 30%, then how much % does its area get increased?

- A. 59%
- B. 69%
- C. 79%
- D. 49%

Answer: B

Explanation:

$$\text{Area of the plot} = 1.3 * 1.3 = 1.69 = 69\%$$

63. The perimeter of a square is equal to twice the perimeter of a rectangle of length 10 cm and breadth 4 cm. What is the circumference of a semi-circle whose diameter is equal to the side of the square?

- A. 38 cm
- B. 23 cm
- C. 46 cm
- D. 36 cm

Answer: D

Explanation:

$$\text{Perimeter of square} = 2(l + b)$$

$$= 2 * 2(10 + 4) = 2 * 28 = 56 \text{ cm}$$

$$\text{Side of square} = 56/4 = 14 \text{ cm}$$

$$\text{Radius of semi circle} = 14/2 = 7 \text{ cm}$$

$$\text{Circumference of the semi-circle} = 2\pi/2 * 7 + 14 = 36 \text{ cm}$$

64. If $(x - 6)$ is the HCF of $x^2 - 2x - 24$ and $x^2 - kx - 6$, then what is the value of k ?

- A. $x - 1$
- B. $x + 1$
- C. $x^2 - 1$
- D. None of these

Answer: A

Explanation:



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$$\text{Let } f(x) = X^4 - 3x + 2 = (x - 1)(X^3 + X^2 + x - 2)$$

$$g(x) = X^3 - 3X^2 + 3x - 1 = (x - 1)^3$$

$$\text{and } h(x) = x^4 - 1 = (x - 1)(x + 1)(x^2 + 1)$$

$$\therefore \text{HCF of } [f(x), g(x), h(x)] = (x - 1)$$

Hence, option A is correct.

65. If $(x - 6)$ is the HCF of $x^2 - 2x - 24$ and $x^2 - kx - 6$, then what is the value of k ?

- A. 3
- B. 5
- C. 6
- D. 8

Answer: B

Explanation:

Given that, $(x - 6)$ is the HCF of $x^2 - 2x - 24$ and $x^2 - kx - 6$, i.e., $(x - 6)$ is a factor of both expression,

$$\text{Let } f(x) = x^2 - 2x - 24 \text{ and } g(x) = x^2 - kx - 6$$

$$\text{Now, } f(x) = g(x) \text{ at } (x = 6)$$

$$\Rightarrow (6)^2 - 2(6) - 24 = (6)^2 - k(6) - 6 \Rightarrow 36 - 12 - 24 = 36 - 6k - 6$$

$$\Rightarrow 0 = 30 - 6k \Rightarrow 6k = 30 \Rightarrow k = 5.$$

Hence, option B is correct.

66. The length of a park is four times of its breadth. A playground whose area is 1024 m^2 covers $1/4$ th part of the park. The length of the park is?

- A. 118 m
- B. 142 m
- C. 124 m
- D. 128 m

Answer: D

Explanation:

$$l = 4b$$

$$\text{Area of the park} = 4 * 1024 \text{ m}^2$$

$$l * b = 4 * 1024$$

$$l * l/4 = 4 * 4 * 1024$$

$$l^2 = 1024 * 16; l = 32 * 4 = 128 \text{ m}$$



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67. The width of a rectangular piece of land is $\frac{1}{4}$ th of its length. If the perimeter of the piece of land is 320m its length is

- A. 140 m
- B. 128 m
- C. 120 m
- D. 156 m

Answer: B

Explanation:

length = l ; breadth = $l/4$

$$2(l + b) = 320$$

$$2(l + l/4) = 320$$

$$l = 320 * 4/10 = 128m$$

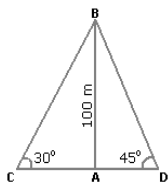
68. Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:

- A. 173 m
- B. 200 m
- C. 273 m
- D. 300 m

Answer: C

Explanation:

Let AB be the lighthouse and C and D be the positions of the ships.



Then, $AB = 100$ m, $\angle ACB = 30^\circ$ and $\angle ADB = 45^\circ$.

$$\frac{AB}{AC} = \tan 30^\circ = \frac{1}{3} \Rightarrow AC = AB \times 3 = 100 \times 3 = 1003 \text{ m.}$$

$$\frac{AB}{AD} = \tan 45^\circ = 1 \Rightarrow AD = AB = 100 \text{ m.}$$

$$\begin{aligned} \therefore CD &= (AC + AD) = (1003 + 100) \text{ m} \\ &= 100(3 + 1) \end{aligned}$$



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$$\begin{aligned} &= (100 \times 2.73) \text{ m} \\ &= 273 \text{ m.} \end{aligned}$$

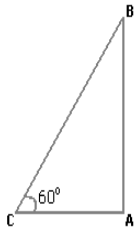
69. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is:

- A. 2.3 m
- B. 4.6 m
- C. 7.8 m
- D. 9.2 m

Answer: D

Explanation:

Let AB be the wall and BC be the ladder



Then, $\angle ACB = 60^\circ$ and $AC = 4.6 \text{ m}$.

$$\frac{AC}{BC} = \cos 60^\circ = \frac{1}{2}$$

$$\frac{BC}{AC} = 2 \times AC$$

$$= (2 \times 4.6) \text{ m}$$

$$= 9.2 \text{ m}$$

70. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

- A. 3
- B. 4
- C. 5
- D. 6

Answer: C

Explanation:

C.P. of 6 toffees = Re. 1

S.P. of 6 toffees = 120% of Re. 1 = Rs.6



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For Rs. $\frac{6}{5}$, toffees sold = 6.

For Re. 1, toffees sold = $(6 * \frac{5}{6}) = 5$.

71. What amount would Rs.2560 fetch if it is lent at 8% SI for 15 years?

- A. Rs.3072
- B. Rs.4632
- C. Rs.5072
- D. Rs.5632

Answer: D

Explanation:

$$SI = \frac{2560 \times 8 \times 15}{100}$$
$$3072$$

$$\text{Amount} = 2560 + 3072 = 5632$$

72. A sum of money becomes Rs.1815 at 7% SI after 3 years. Same sum of money becomes Rs. 2235 at same interest after 7 years.

- A. Rs.1200
- B. Rs.1500
- C. Rs.1800
- D. Rs.2000

Answer: B

Explanation:

$$2235 - 1815 = \frac{p}{100}(7 \times 7 - 7 \times 3)$$
$$p = 1500$$

73. A man invests Rs. 124000 for 9 years at 5% SI. Income tax at the rate of 19% is deducted from interest earned at the end of every year. Find the amount at the end of the 9th year?

- A. Rs. 169198
- B. RS. 169918
- C. Rs. 196918
- D. Rs. 199698

Answer: A

Explanation:

$$\text{for one year} = \frac{124000 \times 5}{100} = 6200$$



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income tax = $6200 \times 81/100 = 5022$
for 9 years = 45198
Amount = $124000 + 45198 = 169198$

74. For Cosine Rule of any triangle ABC, b^2 is equal to

- A. $a^2 - c^2 - 4bc \cos A$
- B. $a^2 + c^2 - 2ac \cos B$
- C. $a^2 - c^2 + 2ab \cos A$
- D. $a^3 + c^3 - 3ab \cos A$

Answer: B

Explanation:

$$a^2 + c^2 - 2ac \cos B$$

75. For Cosine Rule of any triangle ABC, c^2 is equal to

- A. $a^2 - b^2 + 2ab \sin A$
- B. $a^2 + b^2 + 2ab \cos A$
- C. $a^2 + b^2 - 2ab \cos C$
- D. $c^2 + a^2 + 2ac \cos C$



Answer: C

Explanation:

$$a^2 + b^2 - 2ab \cos C$$



76. Which among the following is not a correct pair?

- A. Ellora Caves – Rastrakuta Rulers
- B. Mahabalipuram – Pallava Rulers
- C. Khajuraho – Chandellas
- D. Elephanta Caves – Maurya Era

Answer: D

77. Which among the following Kavya of Sanskrit, deal with court intrigues & access to power of Chandragupta Maurya?

- A. Mrichhakatika



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- B. Ritusamhara
- C. Kumarasambhava
- D. Mudrarakshahsa

Answer: D

78. On which of the following systems of Hindu Philosophy , Shankaracharya wrote commentary in 9th century AD?

- A. Sankhya
- B. Vaisheshika
- C. Yoga
- D. Uttarmimansa

Answer: D

79. Which among the following is not correct?

- A. The capital of pandyas was Madurai
- B. The capital of Cheras was Vanchi
- C. Capital of the Videha Kingdom – Mithila
- D. Capital of Gahadwal Dynasty – Kannauj

Answer: C

80. Upnishads are books on :

- A. Politics
- B. Philosophy
- C. Medicine
- D. Social life

Answer: B

81. Where is “Pushkar Fair” held ?

- A. Jaipur
- B. Udaipur



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- C. Jodhpur
- D. Ajmer

Answer: D

82. 'Kuchipudi' dance originated in

- A. Rajasthan
- B. Andhra Pradesh
- C. Karnataka
- D. Punjab

Answer: B

83. Who amongst the following is renowned in the field of painting ?

- A. Prof. T.N. Krishnan
- B. Ram Kinkar
- C. Raja Ravi Varma
- D. Parveen Sultana

Answer: C

84. In which of the following styles of dance the story/ theme is always taken from Mahabharata and Ramayana ?

- A. Bharatanatyam
- B. Mohiniattam
- C. Odissi
- D. Kuchipudi

Answer: A

85. Where is Salar Jung Museum situated ?

- A. Jaipur
- B. Hyderabad
- C. Mumbai
- D. Lucknow

Answer: B

86. Which of the following geographical term related with the "piece of sub-continental land that is surrounded by water"?

- A. Peninsula
- B. Gulf



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- C. Strait
- D. Island

Answer: D

87. Which of the following geographical term related with a naturally formed, narrow, typically navigable waterway that connects two larger bodies of water?

- A. Peninsula
- B. Gulf
- C. Strait
- D. Island

Answer: C

88. Which of the following is suitable definition of 'Archipelago'?

- A. A circular coral reef that encloses a shallow lagoon.
- B. A chain or set of islands grouped together.
- C. The plant and animal life on the earth.
- D. None of the above

Answer: B

89. Which of the following is the world's largest peninsula?

- A. India
- B. South Africa
- C. Arabia
- D. Both A & B

Answer: C

90. Which of the following pass has been created by the Indus River?

- A. Rohtas Pass



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- B. Nathula Pass
- C. Baralachala Pass
- D. Banihal Pass

Answer: D

91. The next ICC Men's cricket world cup would be held in....

- A. Australia
- B. England
- C. Sri Lanka
- D. South Africa

Answer: A

92. Where was the first edition of ICC Men's T20 Cricket World Cup held?

- A. India
- B. England
- C. South Africa
- D. None of the above

Answer: C

93. Which of the following country has not won a single title of ICC Men's T20 Cricket World Cup?

- A. Australia
- B. Pakistan
- C. England
- D. Sri Lanka

Answer: A

94. Which version of the ICC Men's T20 Cricket World Cup would be played in the year 2020?

- A. 10th
- B. 9th
- C. 8th
- D. 7th

Answer: D

95. Which country has won the very first edition of the ICC Men's T20 Cricket World Cup?

- A. Sri Lanka
- B. West Indies
- C. Pakistan
- D. India

Answer: D

96. Which one of the following article deals with the appointment of the Prime Minister and other ministers?



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- A. Article 76
- B. Article 74
- C. Article 75
- D. Article 72

Answer: C

97. Who among the following shall communicate to the president all the decisions of the council of ministers under article 78?

- A. Home minister
- B. Prime minister
- C. Attorney general
- D. Finance minister

Answer: B

98. Who among the following appoints the Chief Justice and other Judges of the Supreme Court?

- A. Prime minister
- B. Vice-president
- C. Home minister
- D. President

Answer: D

99. Which of the following are the powers of the Supreme Court?

- A. Original and Appellate Jurisdiction
- B. Appointment of ad-hoc judges
- C. Judicial review
- D. All the above

Answer: D

100. Which article of the constitution of India provides the composition and jurisdiction of the Supreme Court of India?



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- A. Article 137-141
- B. Article 144
- C. Article 126
- D. Article 124

Answer: D





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