CIVIL MENTOR

Weekly Mock Test no. – 4
CSAT paper – II

Duration: 1 hour   Total Marks: 100

Passage I

Power and possession have been central pursuits of modern civilisation for a long time. They blocked out or distorted other features of the western renaissance (revival) which promised so much for humanity. What people have been and are still being taught to prize are money, success, control over the lives of others, acquisition of more and more objects. Modern social, political and economic systems, whether capitalist, fascist or communalist, reject in their working the basic principle that the free and creative unfoldment of every man, woman and child is the true measure of the worth of any society. Such infoldment requires understanding and imagination, integrity and compassion, cooperation among people and harmony between the human species and the rest of nature.

Acquisitiveness and the pursuit of power have made the modern man as an aggressor against everything that is non-human, an exploiter and aggressor of those who are poor, meek and unorganised, a pathological type which hates and distrusts the wold and suffers from both acute loneliness and false pride.

The need for a new renaissance is deeply felt for those sensitive and conscientious men and women who not only perceive the dimension of the crisis of our age but also realise that only through conscious and cooperative human efforts may this crisis be met and probably even overcome

Ques1. The author appears to be advocating which of the following approaches to be adopted by societies?

   a) Capitalistic
   b) Communalistic
   c) Authoritarian
   d) Humanistic

Answer - D

Ques2. Which of the following best describe the behaviour of modern man?

   a) Imaginative and sympathetic
   b) Cruel and greedy
   c) Conscientious and cooperative
   d) Seeker of truth and non-violence

Answer - B

Ques3. According to the passage, why has modern man turned out as an enemy of everything that is non-human?

a) He hates and distrusts other human beings.
b) Non-human have refused cooperation to human being
c) He has been nominated by drives of the acquisitiveness and power.
d) He consciously practises spirit of cooperation.

Answer - C

Ques4. Which of the following statement is not true in context of the given passage?

a) Power and possession go hand in hand
b) There is need for a new renaissance.
c) Poor and weak people are oppressed by the modern man
d) The modern man is not individualist.

Answer - D

Ques5. The real attainment of any society can be adjudged by which of the following?

a) The encouragement for acquisition tendencies.
b) Total victimisation of conscientious persons
c) The degree of freedom for pursuing more and more power
d) Strict adherence to authoritarian structure
e) None of these
Answer – E

Ques6. Which of the following is one of the requirements bringing out the best in man?
a) Money
b) Success
c) Power
d) Understanding
e) Acquisitiveness
Answer – D

Ques7. The western renaissance could not make total impact on today's humanity because:
a) It was conceptually weak
b) It was against basic principle
c) Conscientious men opposed it
d) None of these
Answer – D

Ques8. The author hopes that the present crises can be solved by
a) Devoted individual efforts
b) Different political system
c) Purpose and collective human efforts
d) Powerful elite human beings
Answer – C

Select the word same in meaning
Ques9. REST
a) Partial
b) Remaining

c) Relax
d) All
Answer – B

Ques10. MET
a) Introduced
b) Found
c) Dealt with
d) Satisfied with
Answer – D

Select the word opposite in meaning
Ques11. CENTRAL
a) Lateral
b) Inadequate
c) Peripheral
d) Major
Answer – C

Ques12. DEEPLY
a) Widely
b) Superficially
c) Wrongly
d) Openly
Answer – C

Ques13. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
a) 4 years
b) 8 years
c) 10 years
d) None of these

Answer: Option A

Explanation:

Let the ages of children be x, (x + 3), (x + 6), (x + 9) and (x + 12) years.

Then, x + (x + 3) + (x + 6) + (x + 9) + (x + 12) = 50

5x = 20

x = 4.

Age of the youngest child = x = 4 years.

Ques14. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:
a. 14 years
b. 19 years

c. 33 years

d. 38 years

Answer: Option A

Explanation:

Let the son's present age be x years. Then, (38 - x) = x

2x = 38.

x = 19.

Son's age 5 years back (19 - 5) = 14 years.

Ques15. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?

    a) 24

    b) 27

    c) 40

    d) None of these

Answer: Option A

Explanation:

Let the present ages of Sameer and Anand be 5x years and 4x years respectively.

Then,   5x + 3/4x + 3 = 11/9

9(5x + 3) = 11(4x + 3)

45x + 27 = 44x + 33

45x - 44x = 33 - 27

x = 6.

Anand's present age = 4x = 24 years.

Ques16. The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train is:

    a) 70 km/hr

    b) 75 km/hr

    c) 84 km/hr

    d) 87.5 km/hr

Answer: Option D

Explanation:

Let the speed of two trains be 7x and 8x km/hr.

Then, 8x = (400/4)   = 100

x = 100/8 = 12.5

Speed of first train = (7 x 12.5) km/hr = 87.5 km/hr.

Ques17. 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: Option A

Explanation:

Let Abhay's speed be x km/hr.

Then,   (30/x) - (30/2x) = 3

⇨   6x = 30
⇨   x = 5 km/hr

Ques18. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

    a)   8 kmph
    b)   11 kmph
    c)   12 kmph
    d)   14 kmph

Answer: Option C

Explanation:

Let the distance travelled by x km.

Then,   (x/10) - (x/15)   = 2

⇨   3x - 2x = 60
⇨   x = 60 km.

Time taken to travel 60 km at 10 km/hr = 60/10 hrs = 6 hrs.

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

 Required speed = (60/5) kmph. = 12 kmph

Ques19. A man standing at a point P is watching the top of a tower, which makes an angle of elevation of 30º with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes 60º. What is the distance between the base of the tower and the point P?
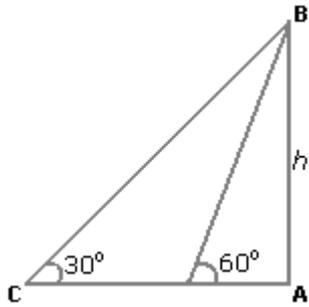

    a)   43 units

b) 8 units
c) 12 units
d) Data inadequate

Answer: Option D

Explanation:

One of AB, AD and CD must have given.

So, the data is inadequate.

Ques20. A and B can do a work in 8 days, B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in :

a)   4 days
b)   6 days
c)   8 days
d)   12 days

Answer: Option C

Explanation:

(A + B + C)'s 1 day's work = 1/6;

(A + B)'s 1 day's work = 1/8;

(B + C)'s 1 day's work = 1/12.

Therefore (A + C)'s 1 day's work
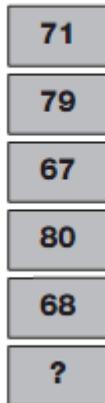
=   (2 x 1/6) - (1/8 + 1/12)

=   (1/3 – 5/24)

=   3/24

=   1/8.

So, A and C together will do the work in 8 days.

Ques21.

Which number replaces the question mark?

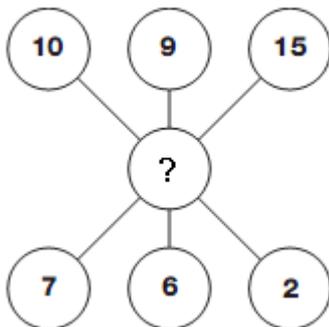| 71 |
| 79 |
| 67 |
| 80 |
| 68 |
| ? |

a) 82
b) 87
c) 91
d) 94

Answer: Option A - 82

Explanation

Start at the top and work down. Add the separate digits of the top number to the number itself to give the next one down, then subtract 12 to give the one after this. Continue with this alternating pattern.

Ques22

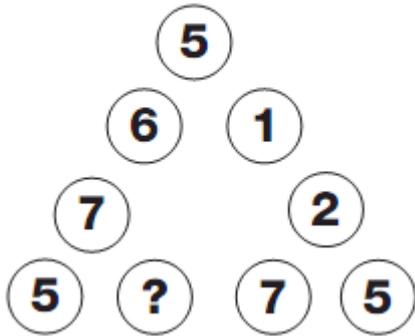Which number replaces the question mark?

a) 3
b) 8
c) 13
d) 2

Answer: Option D - 2

Explanation

Split the diagram into 3 vertical columns. The sum of the numbers in each column equal 17.

Ques23.

Which number replaces the question mark?

- a) 6
- b) 7
- c) 4
- d) 3

Answer: Option B - 7

Explanation

Start anywhere on the diagram, and move clockwise, calculating the sum of every third circle. This always equals 15.

Ques24.

Which number replaces the question mark?

8	11
14	10
19	16
30	21
46	32
?	?

- a) 69,72
- b) 54,47
- c) 73,48
- d) 57,49

Answer: Option C - 73,48

Explanation

Starting at the top, add the left and right hand numbers together and subtract 5 to give the lower left number. Add 2 to the left hand number to give the lower right hand number.

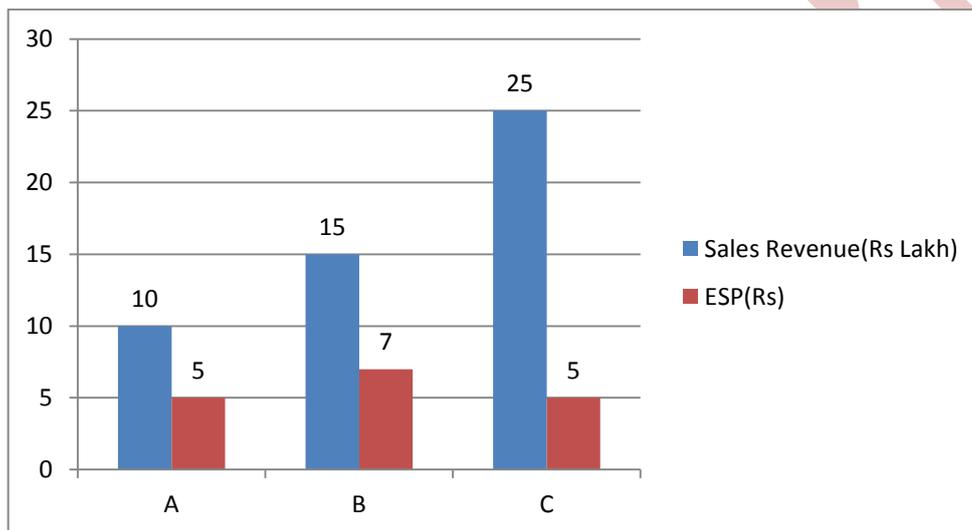Ques25.

Which number replaces the question mark?

| 4 | 7 | 15 | 31 | 35 | 19 | 11 | ? |

a) 5
b) 8
c) 6
d) 11

Answer: Option C - 6

Explanation

Starting on the extreme left and right hand of the row and working towards the centre, add the end digits together and subtract 3 to give the next value along to the left, and add 1 to give the next value along to the right. Repeat this sequence, working towards the centre.

Questions 26 to 30 are based on the following information given below:

Bar chart showing Sales Revenue (Rs Lakh) and ESP (Rs) for companies A, B, and C:
- A: Sales Revenue 10, ESP 5
- B: Sales Revenue 15, ESP 7
- C: Sales Revenue 25, ESP 5

ESP = Profit after tax – Tax paid

Profit after tax = Profit before tax – Tax paid

Profit before tax = Sales Revenue – Total expenditure

Ques26. If company A has 90,000 shares and the tax rate is 40%, then what is the total expenditure (Rs thousand) of company A?

a) 250
b) 500
c) 750
d) 490
e) 520

Answer - A

Ques27. If all the companies have 1 lakh shares each, which company has the highest profitability, given that all the companies pay tax at the same rate?

- a) A
- b) B
- c) C
- d) Both Company A & B

Answer - A

Ques28. If the sales Revenue and EPS of company C increased by 100% and 25% respectively over that of the previous year, then by how much did the total ecpenditure increase, compared to that of the previous year?

a) 75

b) 37.5

c) 60

d) 90

e) Cannot be determined

Answer - E

Ques29. Company B has 75,000 shares, which did not change over the previous year but its ESP grew by 40% as compared of the previous year. If the total expenditure remains constant, what was the approximate increase in the total sales revenue, given that the tax rate this year was only 40% compared to 50% in the previous year?

a) 10%
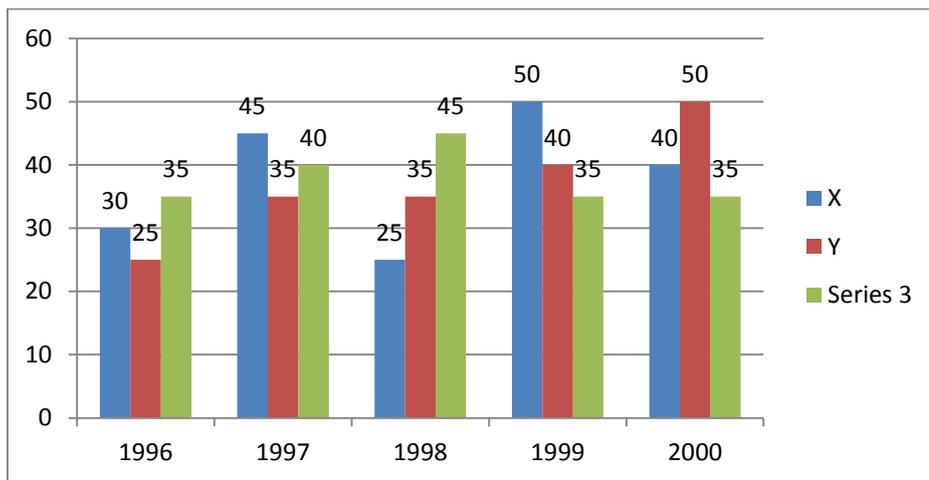
b) 8%

c) 9%

d) 12%

e) 13%

Answer – C

Ques30. If a person holds 1000 shares in each of the companies, what will be his total earning given that, the entire profit is distributed among the shareholders?

a) 14,000

b) 13,000

c) 17,000

d) 15,000

e) 20,000

Answer - C

The bar graph given below shows the data of the production of paper (in lakh tonnes) by three different companies X, Y and Z over the years.

Ques31. For which of the following years, the percentage rise/fall in production from the previous year is the maximum for Company Y?

- a)   1997
- b)   1998
- c)   1999
- d)   2000

Answer: Option A

Explanation:

Percentage change (rise/fall) in the production of Company Y in comparison to the previous year, for different years are:

For 1997 =   [(35 - 25)/25   x 100   ]   % = 40%.

For 1998 =   [(35 - 35)/25   x 100   ]   % = 0%.

For 1999 =   [(40 - 35)/35   x 100   ]   % = 14.29%.

For 2000 =   [(50 - 40)/40   x 100   ]   % = 25%.

Hence, the maximum percentage rise/fall in the production of Company Y is for 1997.

Ques32. What is the ratio of the average production of Company X in the period 1998-2000 to the average production of Company Y in the same period?

- a)   1:1
- b)   15:17
- c)   23:25
- d)   27:29

Answer: Option C

Explanation:

Average production of Company X in the period 1998-2000

=   [1/3 x (25 + 50 + 40)] = (115/3) lakh tons.

Average production of Company Y in the period 1998-2000

=   [1/3 x (35 + 40 + 50)   ] = (125/3)   lakh tons.

Therefore Required ratio = (115/3) / (125/3)

⇨   = 115/125
⇨   = 23/25

Ques33. The average production for five years was maximum for which company?

        a.   X
        b.   Y
        c.   Z
        d.   X and Z both

Answer: Option D

Explanation:

Average production (in lakh tons) in five years for the three companies are:

For Company X = [1/5 x (30 + 45 + 25 + 50 + 40)] = 190/5 = 38.

For Company Y = [1/5 x (25 + 35 + 35 + 40 + 50)] =185/5= 37.

For Company Z = [1/5 x (35 + 40 + 45 + 35 + 35)] = 190/5 = 38.

Therefore Average production of five years is maximum for both the Companies X and Z.

Ques34. In which year was the percentage of production of Company Z to the production of Company Y the maximum?

        a)   1996
        b)   1997
        c)   1998
        d)   1999

Answer: Option A

Explanation:

The percentages of production of Company Z to the production of Company Z for various years are:

For 1996 =   (35/25 x 100) % = 140%.

For 1997 =   (40/35 x 100) % = 114.29%.

For 1998 =   (45/35 x 100) % = 128.57%.

For 1999 =   (35/40 x 100) % = 87.5%.

For 2000 =   (35/50 x 100) % = 70%.

Clearly, this percentage is highest for 1996.

Ques35. What is the percentage increase in the production of Company Y from 1996 to 1999?

    a. 30%
    b. 45%
    c. 50%
    d. 60%

Answer: Option D

Explanation:

Percentage increase in the production of Company Y from 1996 to 1999

=   [(40 - 25)/25x 100] %

=   [15/25 x 100] %

= 60%.

Ques36. Two, trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is:
a. 2 : 3

b. 4 : 3

c. 6 : 7

d. 9 : 16

Answer: Option B

Ques37. A train overtakes two persons who are walking in the same direction in which the train is going, at the rate of 2 kmph and 4 kmph and passes them completely in 9 and 10 seconds respectively. The length of the train is:
a) 45 m

b) 50 m

c) 54 m

d) 72 m

Answer – B

Ques38. A train overtakes two persons walking along a railway track. The first one walks at 4.5 km/hr. The other one walks at 5.4 km/hr. The train needs 8.4 and 8.5 seconds respectively to overtake them. What is the speed of the train if both the persons are walking in the same direction as the train?
a. 66 km/hr

b. 72 km/hr

c. 78 km/hr

d. 81 km/hr

Answer – D

Ques39. Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet?
a. 9 a.m.

b. 10 a.m.

c. 10.30 a.m.

d. 11 a.m.

Answer - B

Ques40. A train travelling at 48 kmph completely crosses another train having half its length and travelling in opposite direction at 42 kmph, in 12 seconds. It also passes a railway platform in 45 seconds. The length of the platform is

a. 400 m

b. 450 m

c. 560 m

d. 600 m

Answer – A

Ques41. Ten new television shows appeared during the month of September. Five of the shows were sitcoms, three were hour-long dramas, and two were news-magazine shows. By January, only seven of these new shows were still on the air. Five of the shows that remained were sitcoms.

a. Only one of the news-magazine shows remained on the air.

b. Only one of the hour-long dramas remained on the air.

c. At least one of the shows that was cancelled was an hour-long drama.

d. Television viewers prefer sitcoms over hour-long dramas.

Answer – C

Ques42. On weekends, Mr. Sanchez spends many hours working in his vegetable and flower gardens. Mrs. Sanchez spends her free time reading and listening to classical music. Both Mr. Sanchez and Mrs. Sanchez like to cook.

a. Mr. Sanchez enjoys planting and growing vegetables.

b. Mr. Sanchez does not like classical music.

c. Mrs. Sanchez cooks the vegetables that Mr. Sanchez grows.

d. Mrs. Sanchez enjoys reading nineteenth century novels.

Answer – A

Ques43. Georgia is older than her cousin Marsha. Marsha's brother Bart is older than Georgia. When Marsha and Bart are visiting with Georgia, all three like to play a game of Monopoly. Marsha wins more often than Georgia does.

a. When he plays Monopoly with Marsha and Georgia, Bart often loses.

b. Of the three, Georgia is the oldest.

c. Georgia hates to lose at Monopoly.

d. Of the three, Marsha is the youngest.

Answer – D

Ques44. Sara lives in a large city on the East Coast. Her younger cousin Marlee lives in the Mid-west in a small town with fewer than 1,000 residents. Marlee has visited Sara several times during the past five years. In the same period of time, Sara has visited Marlee only once.

a. Marlee likes Sara better than Sara likes Marlee.

b. Sara thinks small towns are boring.

c. Sara is older than Marlee.

d. Marlee wants to move to the East Coast.

Answer – C

Ques45. When they heard news of the hurricane, Maya and Julian decided to change their vacation plans. Instead of traveling to the island beach resort, they booked a room at a fancy new spa in the mountains. Their plans were a bit more expensive, but they'd heard wonderful things about the spa and they were relieved to find availability on such short notice.

a. Maya and Julian take beach vacations every year.

b. The spa is overpriced.

c. It is usually necessary to book at least six months in advance at the spa.

d. Maya and Julian decided to change their vacation plans because of the hurricane.

Answer - C

In each of the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.

Ques46. Statements:

    I.   There has been a high increase in the incidents of atrocities against women in the city during the past few months.
    II.   The police authority has been unable to nab the culprits who are committing crime against women.

a. Statement I is the cause and statement II is its effect

b. Statement II is the cause and statement I is its effect

c. Both the statements I and II are independent causes

d. Both the statements I and II are effects of independent causes

e. Both the statements I and II are effects of some common cause

Answer – C

Ques47. Statements:

I. Most of the steel producing companies in the country have made considerable profit during the last financial year.

II. Many Asian countries have been importing huge quantities of steel from India.

a. Statement I is the cause and statement II is its effect

b. Statement II is the cause and statement I is its effect

c. Both the statements I and II are independent causes

d. Both the statements I and II are effects of independent causes

e. Both the statements I and II are effects of some common cause

Answer - B

Ques48. Statements:

I. There is increase in water level of all the water tanks supplying drinking water to the city during the last fortnight.

II. Most of the trains were cancelled last week due to water-logging on the tracks.

a. Statement I is the cause and statement II is its effect

b. Statement II is the cause and statement I is its effect

c. Both the statements I and II are independent causes

d. Both the statements I and II are effects of independent causes

e. Both the statements I and II are effects of some common cause

Answer - E

Ques49. Statements:

I. The government has decided to make all the information related to primary education available to the general public.

II. In the past, the general public did not have access to all these information related to primary education.

a. Statement I is the cause and statement II is its effect

b. Statement II is the cause and statement I is its effect

c. Both the statements I and II are independent causes

d. Both the statements I and II are effects of independent causes

e. Both the statements I and II are effects of some common cause

Answer – B

Ques50. Statements:

I. The farmers have decided against selling their kharif crops to the Government agencies.

II. The Government has reduced the procurement price of kharif crops starting from last month to the next six months.

a) Statement I is the cause and statement II is its effect

b) Statement II is the cause and statement I is its effect

c) Both the statements I and II are independent causes

d) Both the statements I and II are effects of independent causes

e) Both the statements I and II are effects of some common cause

Answer - B