

SSC CHSL (Tier - 1) Online Exam Paper - 2017 "held on 21 March 2018"

Morning-Shift (Quantitative Aptitude)

QID : 1 -

Find the remainder in the expression $\frac{557 \times 653 \times 672}{9}$

समीकरण $\frac{557 \times 653 \times 672}{9}$ का शेष ज्ञात कीजिये।

Options:

- 1) 0
- 2) 3
- 3) 5
- 4) 6

Correct Answer: 6

QID : 2 -

Calculate the value of x , if $\sqrt{1 - (x/529)} = (16/23)$.

x का मान ज्ञात कीजिये, यदि $\sqrt{1 - (x/529)} = (16/23)$ है।

Options:

- 1) 283
- 2) 276
- 3) 273
- 4) 374

Correct Answer: 273

QID : 3 - How many solutions does a pair of linear equations will have, if the equations are $4x+5y-6=0$ and $16x+20y+20=0$?

Options:

- 1) 0
- 2) 1
- 3) 2
- 4) Infinite

Correct Answer: 0

QID : 4 -

Determine the value of m for which $4x + \frac{\sqrt{x}}{6} + \frac{m^2}{4}$ is a perfect square.

m का मान ज्ञात कीजिये, जबकि $4x + \frac{\sqrt{x}}{6} + \frac{m^2}{4}$ एक आदर्श वर्ग है।

Options:

1)

$\frac{1}{24}$

2)

$\frac{1}{12}$

3) 12

4) 24

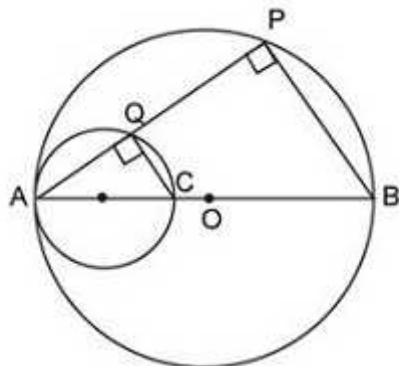
Correct Answer:

$$\frac{1}{12}$$

QID : 5 -

Consider the circle as shown in the figure and choose the CORRECT option for this case.

इस आकृति में दिखाए अनुसार वृत्त के बारे में विचार करें, जो इस मामले के लिए सही विकल्प हो, उसे ज्ञात कीजिये।



Options:

1)

$$QC \parallel PB$$

2) QC is never parallel to PB

3)

$$QC = \frac{1}{2} PB$$

4)

$$QC \parallel PB, QC = \frac{1}{2} PB$$

Correct Answer:

$$QC \parallel PB$$

QID : 6 - The angle subtended by the chord of length 10 cm is 120° at the centre. Calculate the distance of the chord (in cm) from the centre.

Options:

1)

$$\frac{5}{\sqrt{3}}$$

2)

$$\frac{6}{\sqrt{3}}$$

3)

$$\frac{4}{\sqrt{3}}$$

4)

$$\frac{5}{2\sqrt{3}}$$

Correct Answer:

$$\frac{5}{\sqrt{3}}$$

QID : 7 - If $P : Q = 9 : 7$, then what is the value of $(P - Q) : (P + Q)$?

Options:

- 1) 1 : 2
- 2) 1 : 8
- 3) 1 : 4
- 4) 2 : 13

Correct Answer: 1 : 8

QID : 8 - How much quantity (in kg) of wheat costing Rs 84 per kg must be mixed with 81 kg of wheat costing Rs 60 per kg so that on selling the mixture at Rs 75.9 per kg, there is a gain of 15%?

Options:

- 1) 27
- 2) 20.5
- 3) 22.75
- 4) 24

Correct Answer: 27

QID : 9 - The average height of A, B and C is 148 cm. If the average height of A and B is 136 cm and that of B and C is 125 cm, then what is the height (in cm) of B?

Options:

- 1) 56
- 2) 78
- 3) 112

4) 130

Correct Answer: 78

QID : 10 - Some part of Rs 17500 was lent at the rate of 24% per annum simple interest and the remaining part at the rate of 10% per annum simple interest. The total interest received after 5 years is Rs 13300. What is the ratio of money lent at the rate of 24% and 10%?

Options:

- 1) 12 : 13
- 2) 3 : 4
- 3) 3 : 2
- 4) 13 : 22

Correct Answer: 13 : 22

QID : 11 - If 60% of total articles are sold at a loss of 50% and remaining articles are sold at a profit of 50%, then what will be the overall loss percentage?

Options:

- 1) 20
- 2) 15
- 3) 25
- 4) 10

Correct Answer: 10

QID : 12 - If three successive discounts of 20%, 30% and 40% are given, then what will be the net discount (in percentage)?

Options:

- 1) 80
- 2) 87.6
- 3) 90
- 4) 66.4

Correct Answer: 66.4

QID : 13 -

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Which of the following statement(s) is/are **TRUE**?

I. $\sqrt{676} + \sqrt{6.76} + \sqrt{0.0676} = 27.76$

II. $\sqrt{339 + \sqrt{36} + \sqrt{49} + \sqrt{81}} = 19$

निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?

I. $\sqrt{676} + \sqrt{6.76} + \sqrt{0.0676} = 27.76$

II. $\sqrt{339 + \sqrt{36} + \sqrt{49} + \sqrt{81}} = 19$

Options:

- 1) Only I
- 2) Only II
- 3) Neither I nor II
- 4) Both I and II

Correct Answer: Only II

QID : 14 - R is 80% more efficient than S. If S alone can make a book in 90 days, then R alone can make the book in how many days?

Options:

- 1) 65
- 2) 60
- 3) 50
- 4) 70

Correct Answer: 50

QID : 15 - Diameter of a car wheel is 21 cm. A car driver moving at the speed of 66 km/hr takes 36 seconds to reach a destination. How many revolutions will the wheel make during the journey?

Options:

- 1) 1800
- 2) 1500
- 3) 1200
- 4) 1000

Correct Answer: 1000

QID : 16 - What is the value of 88% of 1125 + 20% of 425?

Options:

- 1) 1025

- 2) 1125.2
- 3) 1075
- 4) 1055

Correct Answer: 1075

QID : 17 -

The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions.

एक कंपनी के मानव संसाधन विभाग ने एक रिपोर्ट तैयार की। इस रिपोर्ट का पाइ चार्ट उस कंपनी के सभी विभागों में स्थित कर्मचारियों की संख्या को दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



The most number of employees belong to which department?

Options:

- 1) E
- 2) F
- 3) G
- 4) A

Correct Answer: E

QID : 18 -

The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions.

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What is the total number of employees of the company?

Options:

- 1) 400
- 2) 600
- 3) 480
- 4) 540

Correct Answer: 540

QID : 19 -

The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions.

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The measure of the central angle of the sector representing department B is _____ degrees.

Options:

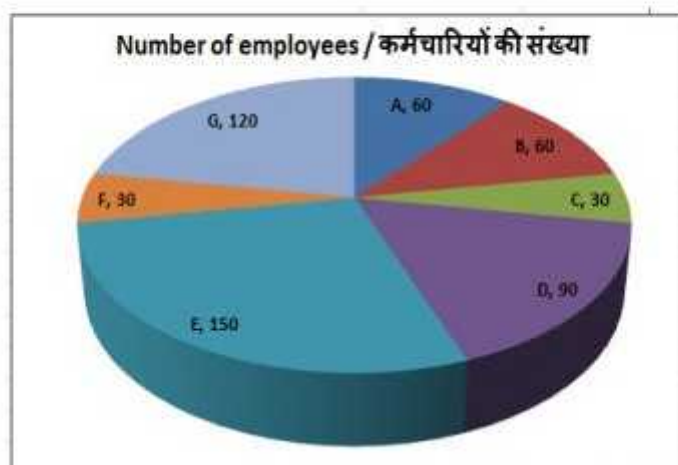
- 1) 30
- 2) 40
- 3) 50
- 4) 60

Correct Answer: 40

QID : 20 -

The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions.

एक कंपनी के मानव संसाधन विभाग ने एक रिपोर्ट तैयार की। इस रिपोर्ट का पाइ चार्ट उस कंपनी के सभी विभागों में स्थित कर्मचारियों की संख्या को दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



If the average monthly salary of the employees of this company is Rs 20,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

Options:

- 1) 112
- 2) 120
- 3) 124
- 4) 108

Correct Answer: 108

QID : 21 - The area of an equilateral triangle is $49\sqrt{3}$ cm². Find its side (in cm).

Options:

- 1) 7
- 2) 14
- 3) 28
- 4) 42

Correct Answer: 14

QID : 22 - What is the measure of an exterior angle of a regular polygon of 6 sides?

Options:

- 1) 45°
- 2) 60°
- 3) 40°
- 4) 36°

Correct Answer: 60°

QID : 23 - The total surface area of a hemisphere is 1039.5 cm². Find its diameter (in cm).

Options:

- 1) 21
- 2) 10.5
- 3) 42
- 4) 31.5

Correct Answer: 21

QID : 24 - DEF is right angled at E. If $m\angle F = 30^\circ$, then find the value of $(\cos D - 1/2)$.

Options:

- 1) $-1/2$
- 2) $(\sqrt{6}-1)/3$
- 3) $(\sqrt{2}-2)/2$
- 4) $3-2$

Correct Answer: $(\sqrt{2}-2)/2$

QID : 25 - In $\triangle PQR$ measure of angle Q is 90°. If $\tan P = 24/7$, and $PQ = 14$ cm, then what is the length (in cm) of side QR?

Options:

- 1) 50
- 2) 20
- 3) 26
- 4) 48

Correct Answer: 48



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