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CHSL EXAM

Combined Higher Secondary Level
(10+2) Examination

SSC CHSL (Tier - 1) Online Exam Paper - 2018 "held on 11 JULY 2019"

Evening-Shift (Quantitative Aptitude)

Q1. If $a + b + c = 5$ and $ab + bc + ca = 4$, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

Options:

1. 65
2. 62
3. 68
4. 72

Correct Answer: 65

Q2. If $a = \sqrt{8} - \sqrt{7}$ and $a = 1/b$, then $a^2 + b^2 - 3ab/a^2 + ab + b^2$ is equal to:

Options:

1. 27/31
2. 27/32

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3. 21/27
4. 32/27

Correct Answer: 27/31

Q3. Given that x, y, z are position real numbers, if $(x + y)^2 - z^2 = 8$, $(y + z)^2 - x^2 = 10$ & $(x + z)^2 - y^2 = 7$, then (x + y + z) is equal to:

Options:

1. 8
2. 7
3. 3
4. 5

Correct Answer: 5

Q4. The simplified value of 20 - [2.8 x 5 ÷ 0.7 - 3 ÷ 0.9 x 1.5 + 2] is equal to:

Options:

1. 3
2. 3.5
3. 3.8
4. 2.5

Correct Answer: 3

Q5. The cost price of an article is Rs. 425. A shopkeeper gives a discount of 20% and still gains 16%. What is the marked price of the article?

Options:

1. 616.25
2. 616.75
3. 620.25
4. 620.75

Correct Answer: 616.25

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Q6. The average of 24 numbers is 65. The average of first 11 numbers is 67 and the average of last 10 numbers is 70. If the 12^{th} number is 13 less than the 13^{th} number, and the 14^{th} number is one more than the 13^{th} number, then the average of 12^{th} and 14^{th} number is:

Options:

1. 42
2. 39
3. 36
4. 37

Correct Answer: 39

Q7. A, B & C alone can do a piece of work in 9, 12 & 18 days respectively. They all started the work together, but A left after 3 days. In how many days, was the remaining work completed?

Options:

1. 11/4
2. 9/5
3. 5/9
4. 4/11

Correct Answer: 9/5

Q8. If $\tan\Theta = 3/5, (0° < \Theta < 90°)$ then $\sin\Theta\cos\Theta$ is equal to:

Options:

1. $14/\sqrt{34}$
2. 15/34
3. $14/\sqrt{35}$
4. 34/15

Correct Answer: 15/34

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Q9. In ▲ABC, ∠ABC = 90° and BD is perpendicular to AC. If AD = 4 cm and CD = 5 cm, then BD is equal to:

Options:

1. 2/√5 cm
2. 4/√5 cm
3. 3/√5 cm
4. 3/√6 cm

Correct Answer: 2/√5

Q10. What is the ratio of the mean proportional between 14.4 and 3.6 and the third proportional of 5 and 4?

Options:

1. 6 : 5
2. 9 : 4
3. 3 : 5
4. 4 : 9

Correct Answer: 9 : 4

Q11. The given Bar Graph presents the percentages of population in the age groups, X, Y & Z in five different villages, A, B, C, D & E with total population of 5000, 6000, 8000, 4500 & 6000 respectively.

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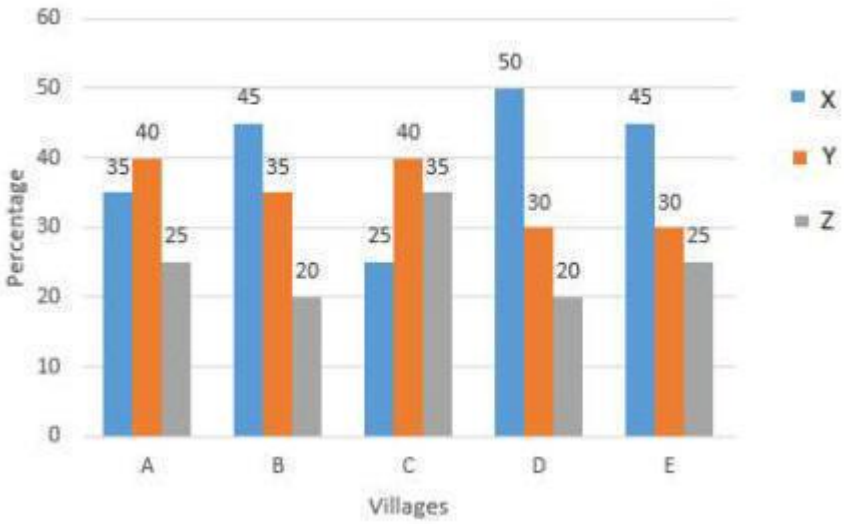

The difference between the number of persons of ages below 20 years in villages D and E, taken together, is what percentage of the number of persons of the same age group in Village D?

Options:

1. 185/3
2. 200/3
3. 182/3
4. 190/3

Correct Answer: 200/3

Q12. The difference between compound interest and simple interest on Rs. x at 6.5% per annum for 2 years is Rs. 33.80. What is the value of x?

Options:

1. 7800
2. 7600
3. 8000
4. 8200

Correct Answer: 8000

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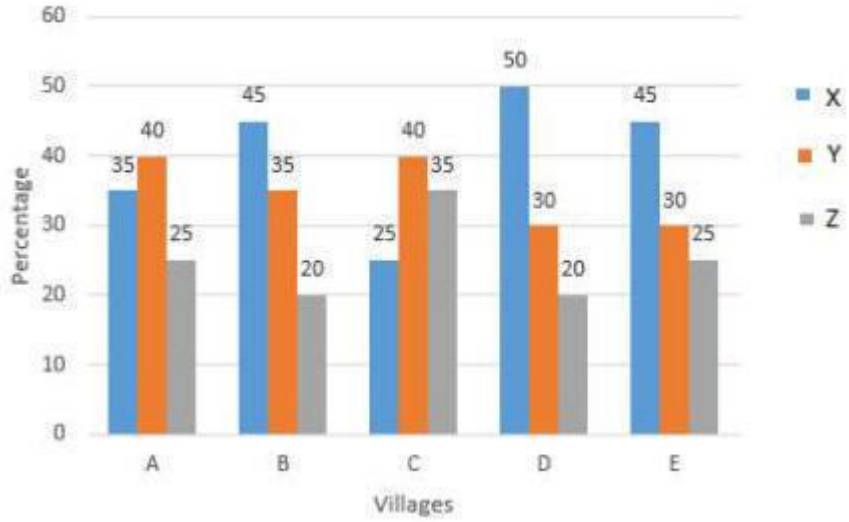
Q13. The given Bar Graph presents the percentages of population in the age groups, X, Y & Z in five different villages, A, B, C, D & E with total population of 5000, 6000, 8000, 4500 & 6000 respectively.



The number of person having ages below 20 years in villages, B and C taken together is what percentage of the total population of the said villages?

Options:

1. 190/7
2. 186/5
3. 184/5
4. 200/7

Correct Answer: 200/7

Q14. The price of petrol is increased by 24%. A person wants to increase his expenditure by 14% only. By what percentage should he decrease his consumption in order to maintain the same level of expenditure?

Options:

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1. 8.1
2. 8.3
3. 7.4
4. 7.6

Correct Answer: 8.1

Q15. The eight digit number 5x32465y is divisible by 88. What is the value of (2x + 3y)?

Options:

1. 24
2. 26
3. 28
4. 29

Correct Answer: 24

Q16. The selling price of 24 articles is to the cost price of 26 articles. What is the gain percentage in such a situation?

Options:

1. 25/3%
2. 26/5%
3. 105/13%
4. 100/3%

Correct Answer: 25/3%

Q17. $(\sin^2 36° + \tan^2 60° + \sec^2 30° + \sin^2 54°)$ is equal to:

Options:

1. 16/3
2. 14/3
3. 5
4. 17/3

Correct Answer: 16/3

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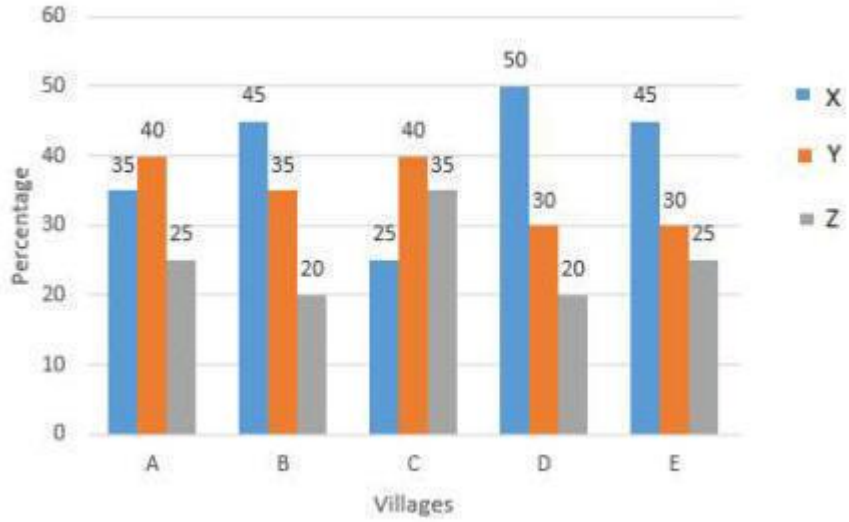
Q18. The given Bar Graph presents the percentages of population in the age groups, X, Y & Z in five different villages, A, B, C, D & E with total population of 5000, 6000, 8000, 4500 & 6000 respectively.



What is the ratio of the total number of persons of ages above 50 years in the villages, B and C, taken together to the total number of persons having ages between 20 and 50 years in the said villages?

Options:

1. 34 : 27
2. 49 : 57
3. 47 : 53
4. 51/ 59

Correct Answer: 47 : 53

Q19. In a circle, chords AD and BC meet at a point E outside the circle. If ∠BAE = 76° and ∠ADC = 102°, then ∠AEC is equal to:

Options:

1. 24°
2. 26°

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3. 29°
4. 28°

Correct Answer: 26°

Q20. Four cubes, each of edge 5 cm are joined end to end. What is the total surface area of the resulting cuboid?

Options:

1. 450 cm^2
2. 600 cm^2
3. 500 cm^2
4. 475 cm^2

Correct Answer: 450 cm^2

Q21. If $2\sin^2\Theta + 3\sin - 2 = 0$, $(0° < \Theta < 90°)$ then then the value of Θ is:

Options:

1. 45°
2. 30°
3. 60°
4. 90°

Correct Answer: 30°

Q22. The given Bar Graph presents the percentages of population in the age groups, X, Y & Z in five different villages, A, B, C, D & E with total population of 5000, 6000, 8000, 4500 & 6000 respectively.

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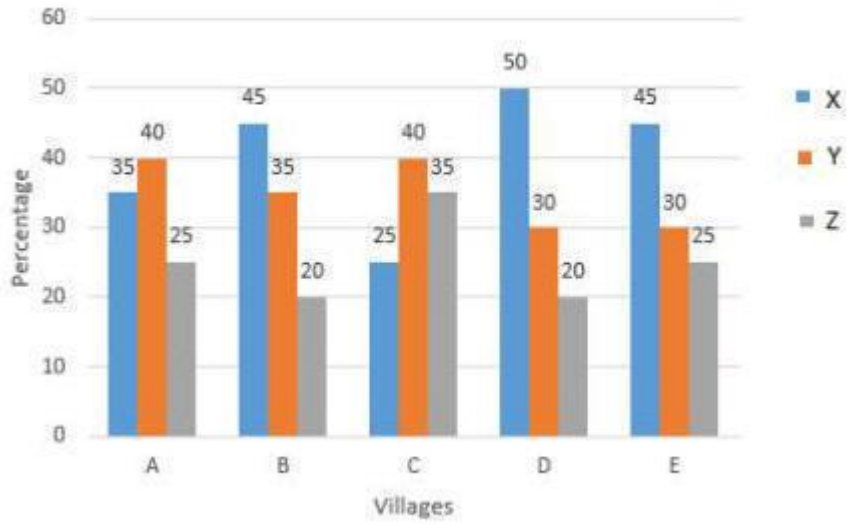

What is the total number of persons in the age group of 20 to 50 years in the villages A and B, taken together?

Options:

1. 4100
2. 4200
3. 4300
4. 4400

Correct Answer: 4100

Q23. A person covers 40% of a distance with a speed of 60 km/hr and the remaining with a speed of 40 km/hr. What is average speed for the whole journey in km/hr?

Options:

1. 600/11
2. 500/13
3. 500/11
4. 600/13

Correct Answer: 600/13

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Q24. A quadrilateral ABCD is inscribed in a circle with centre O. If ∠BOC = 92° and ∠ADC = 112°, then ∠ABO is equal to:

Options:

1. 24°
2. 26°
3. 22°
4. 28°

Correct Answer: 24°

Q25. If in ▲ABC, D is a point on BC, such that BD : BC = 2 : 5, what is the ration area (▲ABD) : area(▲ADC)?

Options:

1. 4 : 9
2. 2 : 3
3. 3 : 2
4. 9 : 4

Correct Answer: 2 : 3

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