

PhysicsByAaryan

CSIR NET . GATE . JEST . BARC - Physics

Data Analysis - CSIR NET Physics PYQs

General Aptitude . All PYQs (2015-2025) with answer key

25 questions . Answer key included

www.physicsbyaaryan.com . www.csirnetphysics.com

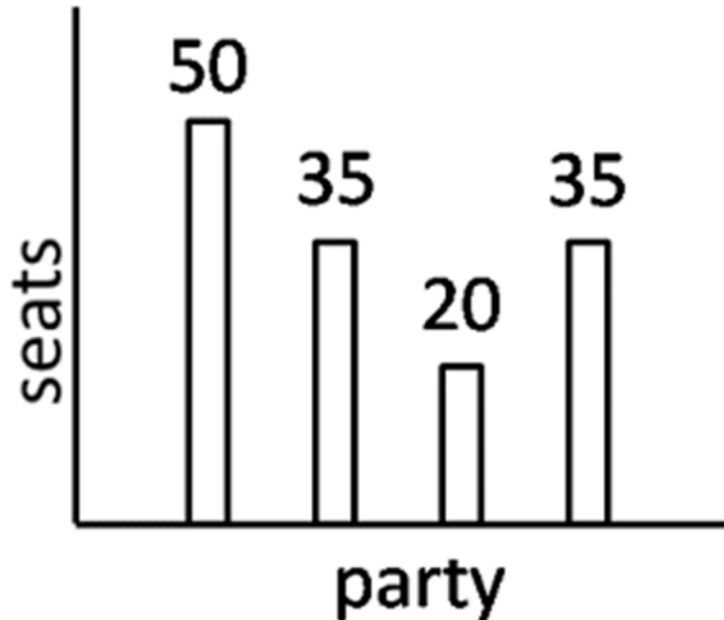
Contact: 9501976811

Q1. [Dec 2016] . 2.0 marks

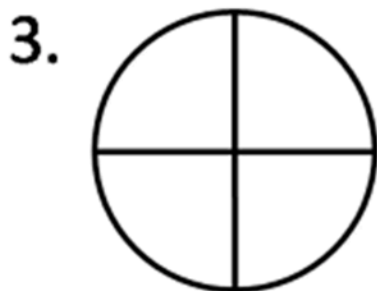
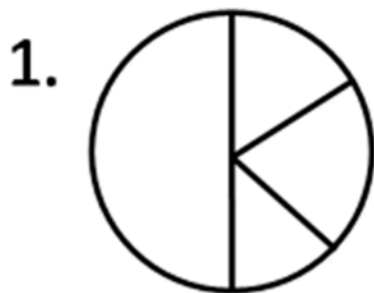
General Aptitude > Data Analysis

CSIR NET	2016 Dec	2M
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The bar chart shows number of seats won by four political parties in a state legislative assembly.

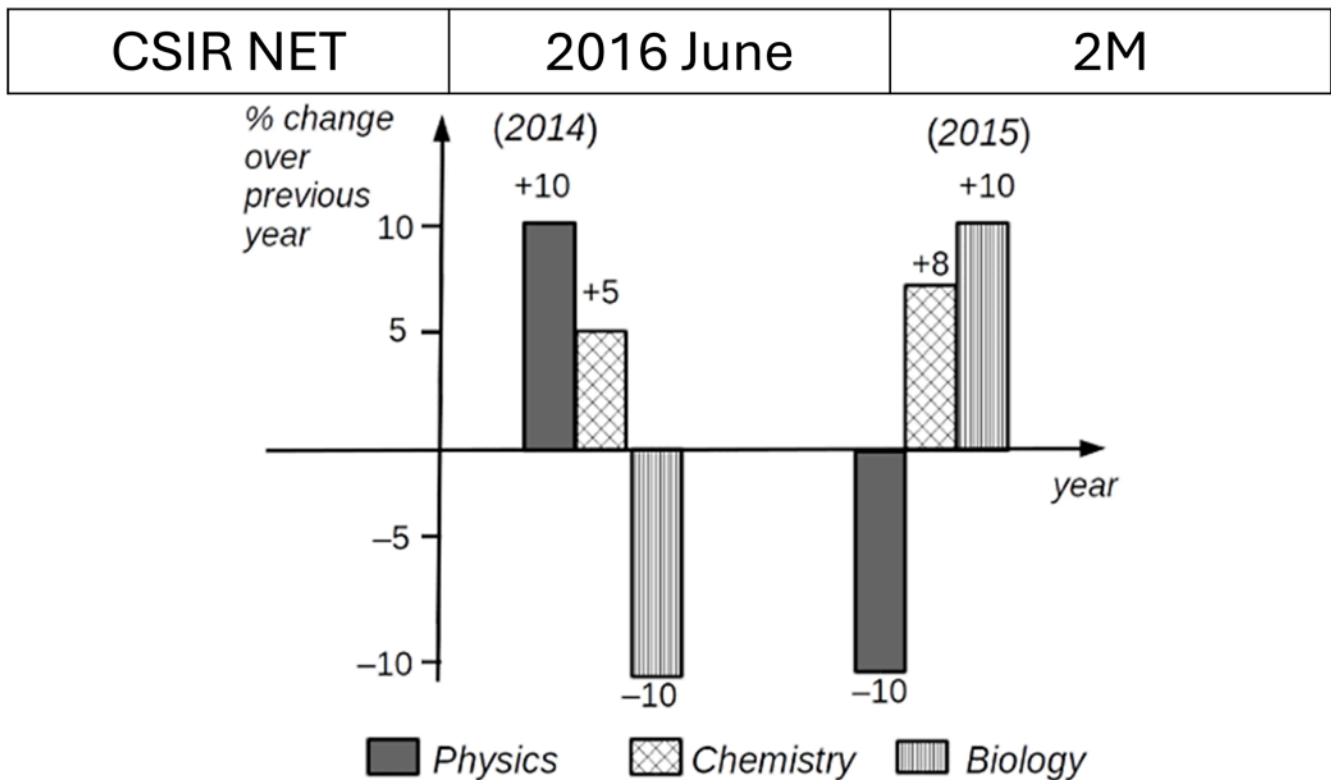


Which of the following pie-charts correctly depicts this information?



Q2. [June 2016] . 2.0 marks

General Aptitude > Data Analysis

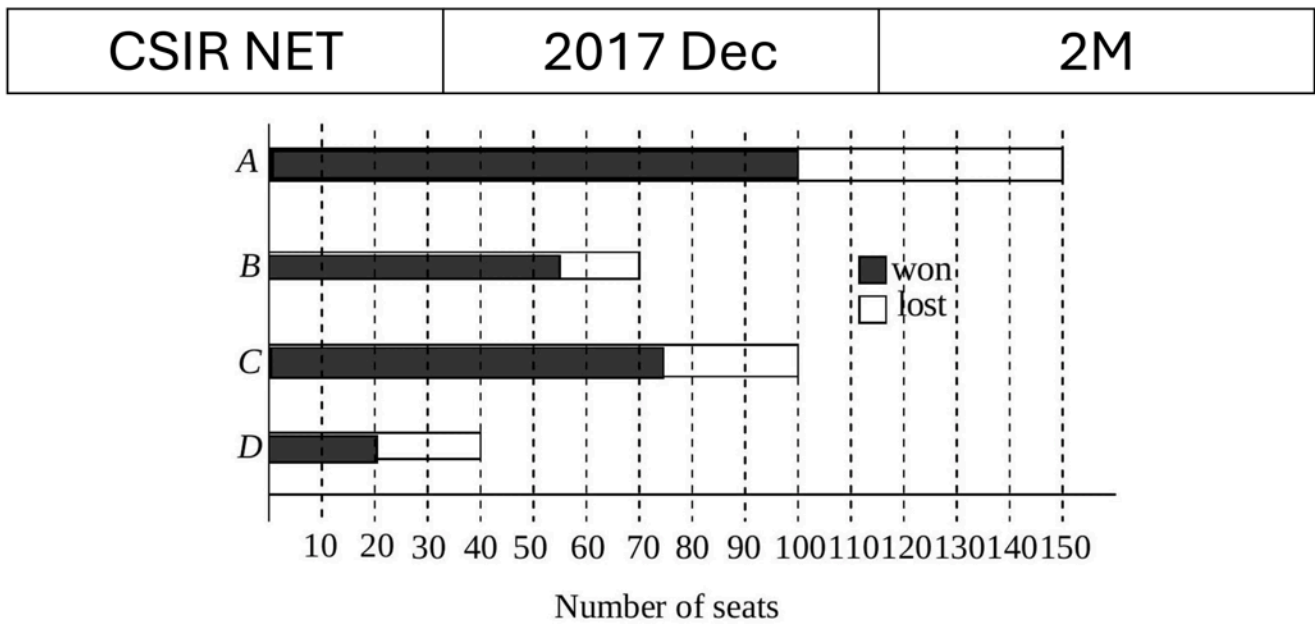


Which of the following inferences can be drawn from the above graph?

1. The total number of students qualifying in Physics in 2015 and 2014 is the same
2. The number of students qualifying in Biology in 2015 is less than that in 2013
3. The number of Chemistry students qualifying in 2015 must be more than the number of students who qualified in Biology in 2014
4. The number of students qualifying in Physics in 2015 is equal to the number of students in Biology that qualified in 2014

Q3. [Dec 2017] . 2.0 marks

General Aptitude > Data Analysis



The bar chart above shows number of seats won by four political parties A , B , C and D . Which party won the largest proportion of seats it contested?

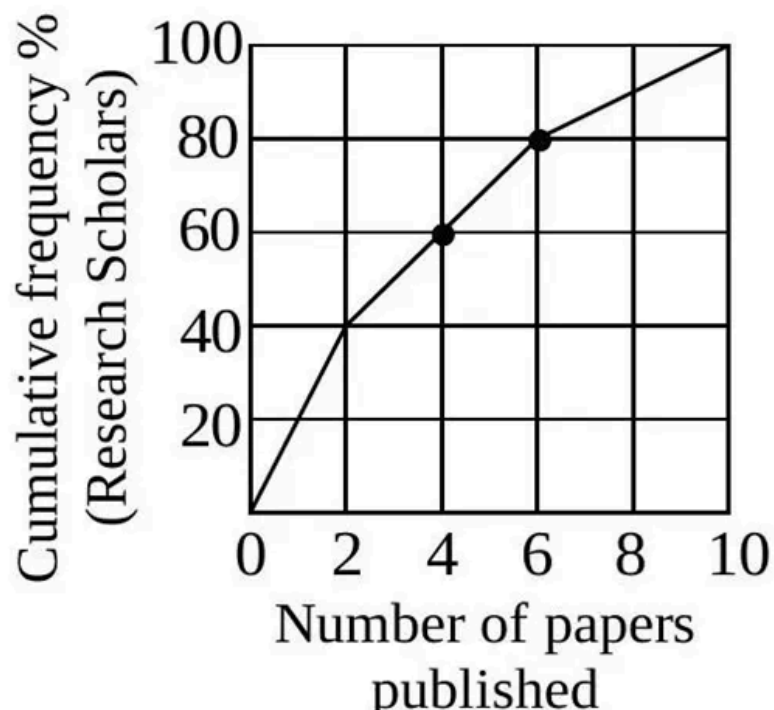
1. A
2. B
3. C
4. D

Q4. [June 2017] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2017 June	2M
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The graph shows cumulative frequency % of research scholars and the number of papers published by them. Which of the following statements is true?



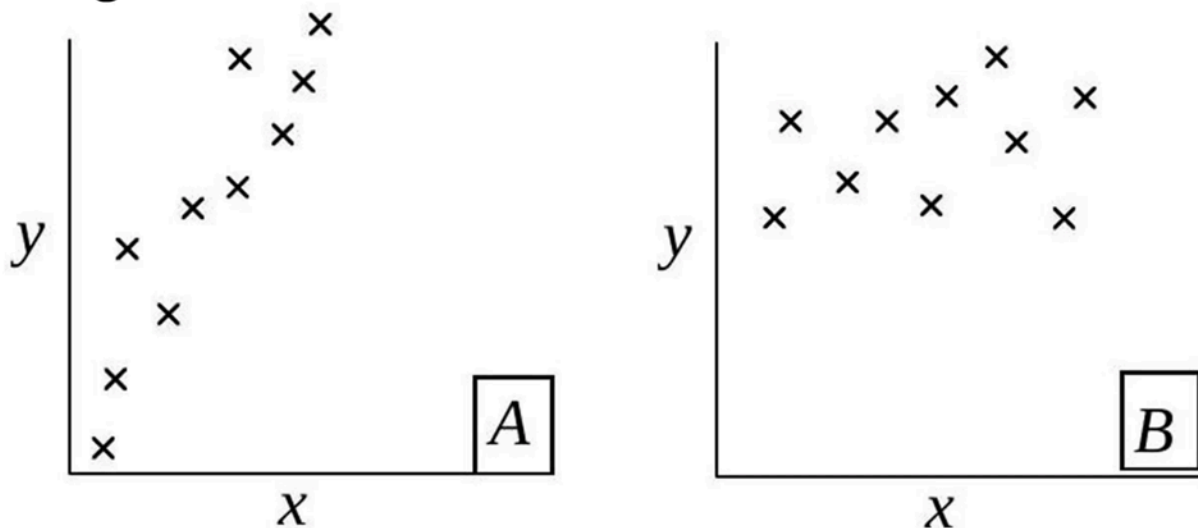
1. Majority of the scholars published more than 4 papers.
2. 60% of the scholars published at least 2 papers.
3. 80% of the scholars published at least 6 papers.
4. 30% of scholar's have not published any paper.

Q5. [Dec 2018] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2018 Dec	2M
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Scatter plots for pairs of observations on the variables x and y in samples A and B are shown in the figure.



Which of the following is suggested by the plots?

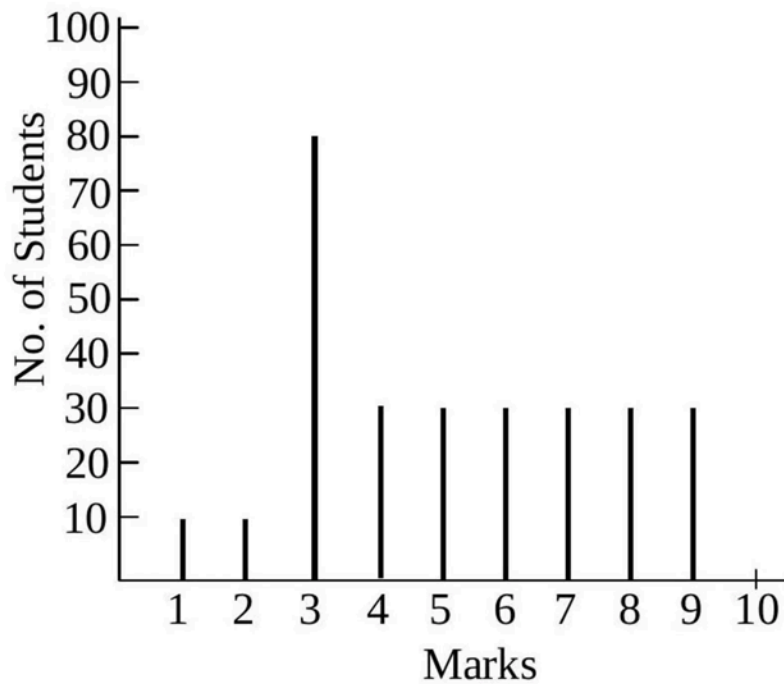
1. Correlation between x and y is stronger in A than in B
2. Correlation between x and y is absent in B
3. Correlation between x and y is weaker in A than in B
4. y and x have a cause - effect relationship in A but not in B

Q6. [June 2018] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2018 June	2M
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The distribution of marks of students in a class is given by the following chart:



If 3.30 marks is the passing score in a 10-mark question paper, which of the following is false?

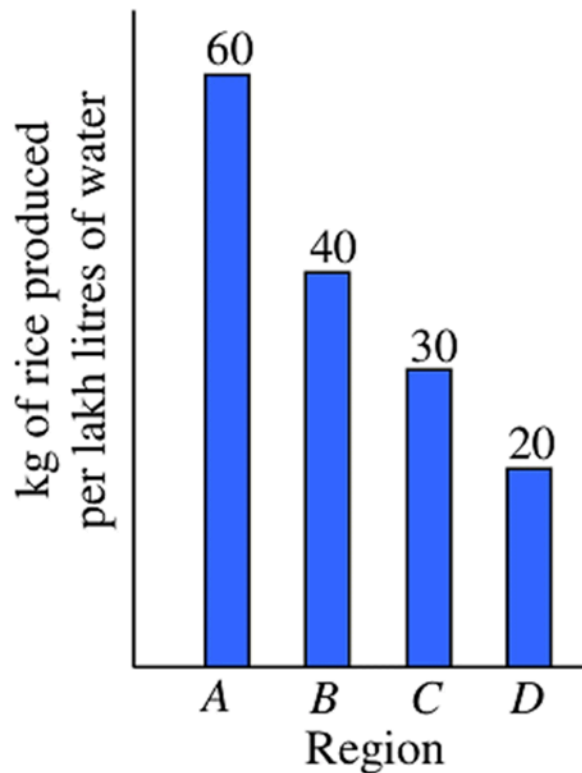
1. Majority of the students have scored above the pass mark
2. mode of the distribution is 3
3. Average marks of passing students is above 55%
4. Average marks of students who have failed is below 20%

Q7. [Dec 2019] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2019 Dec	2M
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Based on the bar chart shown here, which of the following inferences is correct?



1. Region *A* uses maximum water per kg of rice.
2. Average water consumption of the four regions is 37.5 lakh litres.
3. Region *D* uses thrice the amount of water used by region *A* per kg of rice.
4. Region *B* uses 20 lakh litres of less water than region *A*.

Q8. [June 2019] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2019 June	2M
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The distribution of grades secured by students in a class is given in the table below.

Grade	Fraction of the Population
A	0.1
B	0.4
C	0.3
D	0.2

What is the least possible population of the class?

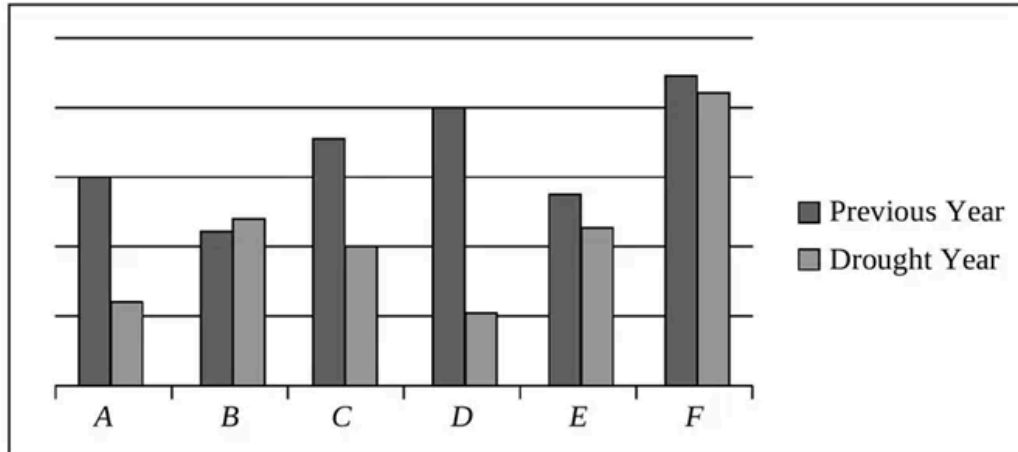
1. 2
2. 4
3. 8
4. 10

Q9. [June 2020] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2020 June	2M
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Rice production in six states A, B, C, D, E and F in two consecutive years are shown in the diagram in linear scale.



Among the states that saw a fall in production in the drought year, the maximum and minimum relative fall was, respectively, in states,

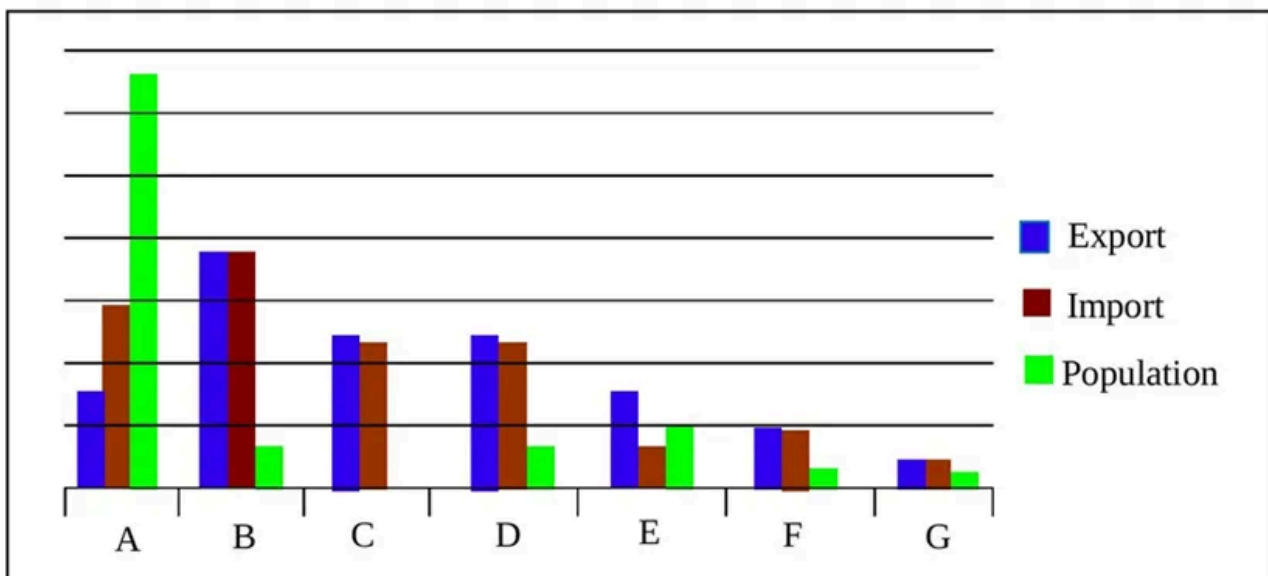
1. D and F
2. C and B
3. C and E
4. D and A

Q10. [June 2021] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2021 June	2M
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Trade figures populations in appropriate units in a certain year are given for 7 countries.



If countries are ranked according to the difference in their per capita exports over import, the best and worst ranking countries are respectively

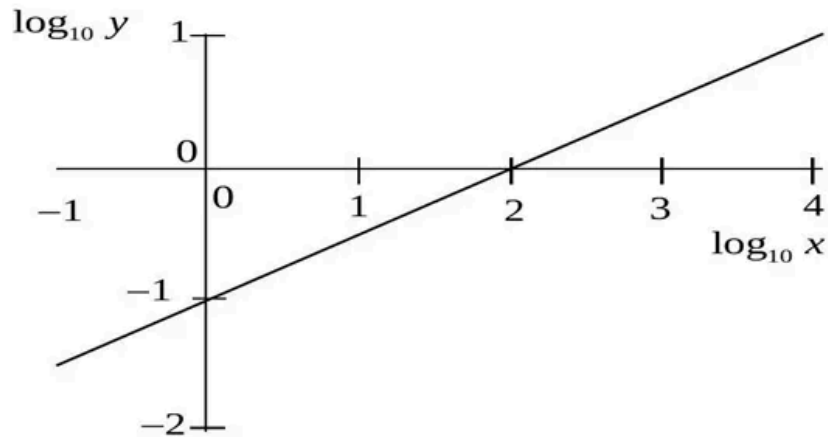
1. C and A
2. A and E
3. C and B
4. A and F

Q11. [Dec 2023] . 2.0 marks

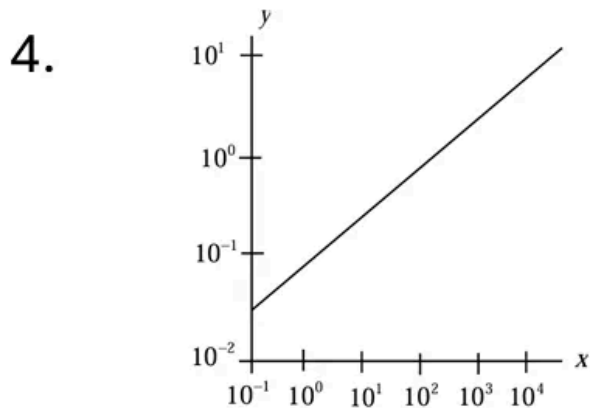
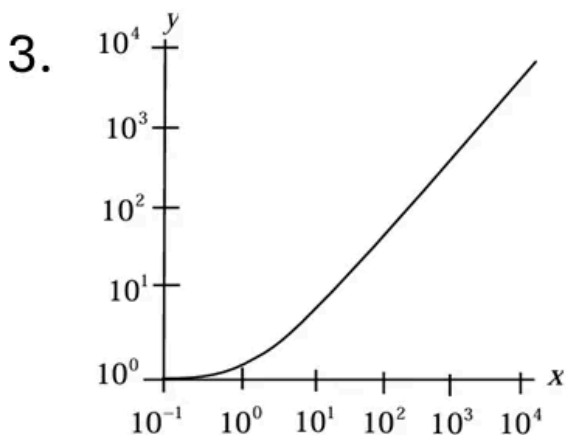
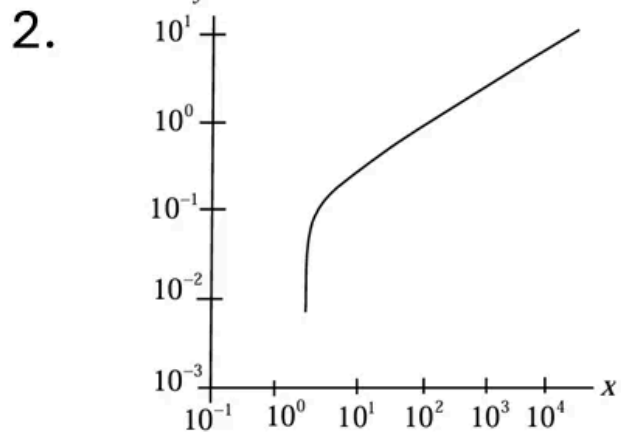
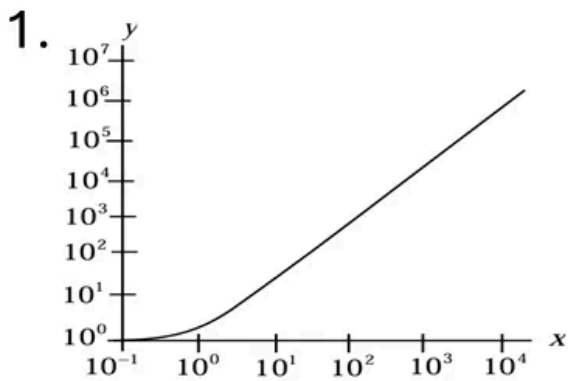
General Aptitude > Data Analysis

CSIR NET	2023 Dec	2 M
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In the figure $\log_{10} y$ is plotted against $\log_{10} x$



When y is plotted against x , then the plot in the provided range is



Q12. [Dec 2023] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2023 Dec	2 M
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A person's viral load measured in some unit was 15,25,50,200,300,150 and 30 on days 1 to 7, respectively. The maximum relative change took place between

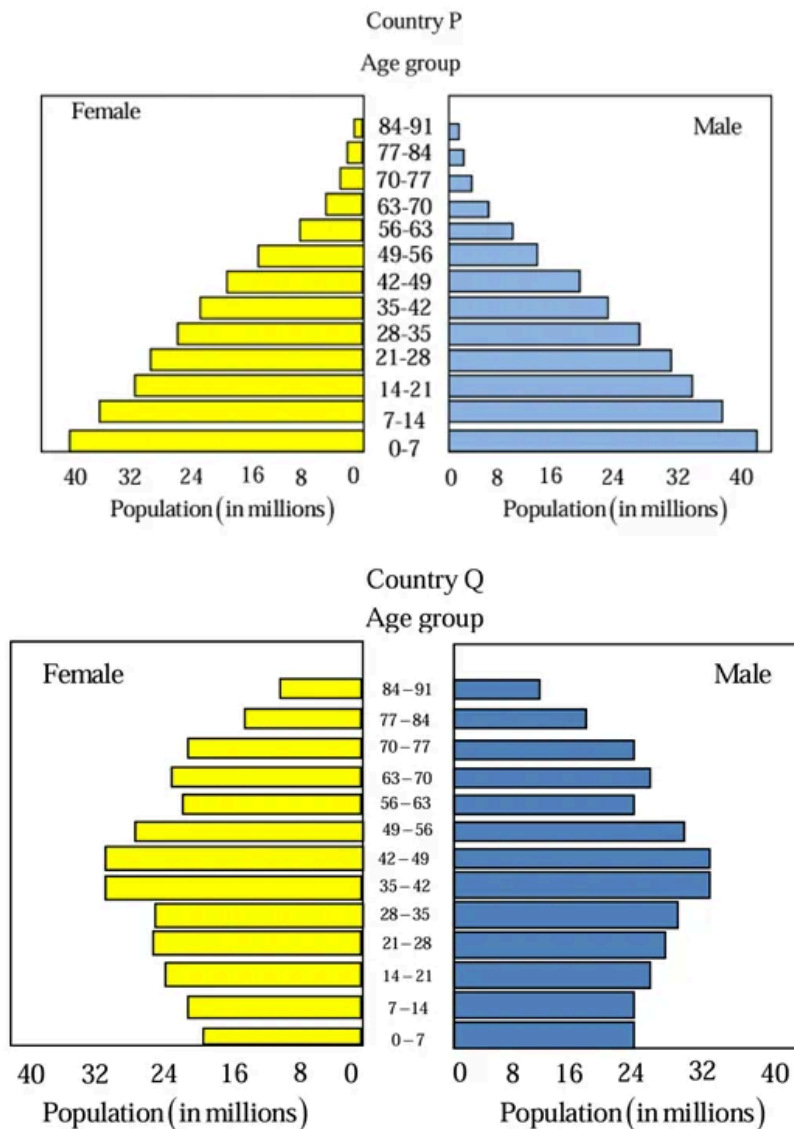
1. day 3 to day 4
2. day 4 to day 5
3. day 5 to day 6
4. day 6 to day 7

Q13. [Dec 2023] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2023 Dec	2 M
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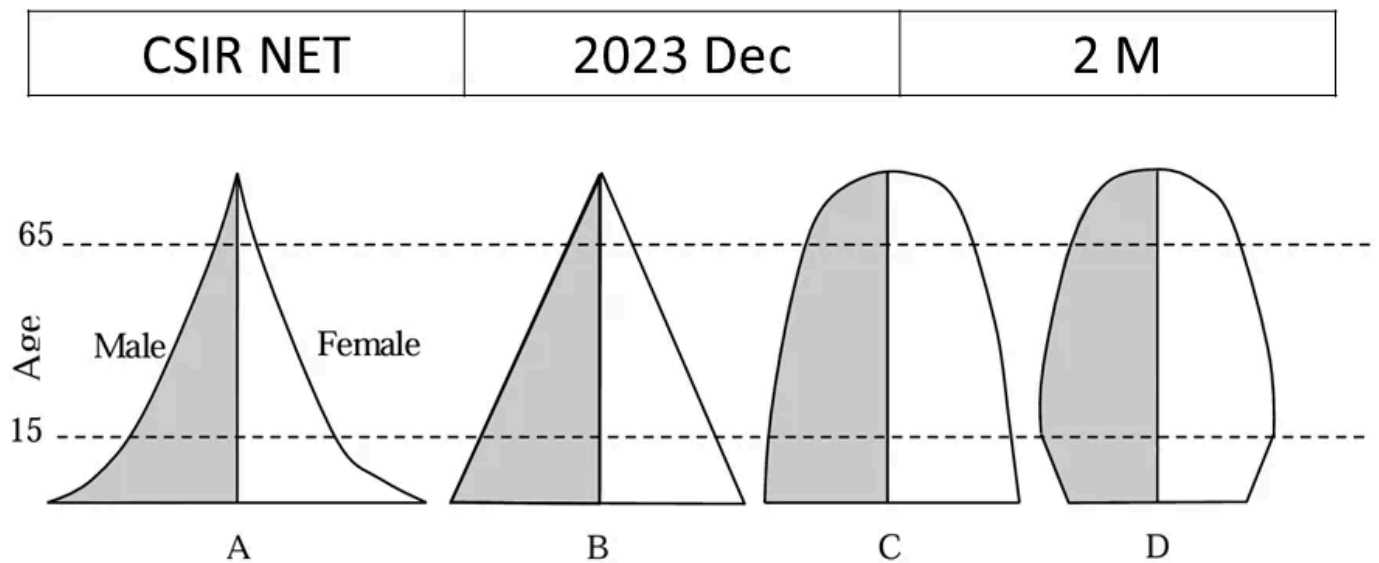
The figure shows age-wise bar graph of male and female population of two countries. Which one of the following is likely to be true?



1. Country Q has higher life expectancy
2. Country P has higher per-capita income
3. The population of country P is decreasing more rapidly than Q
4. Country P has better health facilities

Q14. [Dec 2023] . 2.0 marks

General Aptitude > Data Analysis



The above figures show population pyramids to four countries A, B, C and D . The country showing the most stable population is

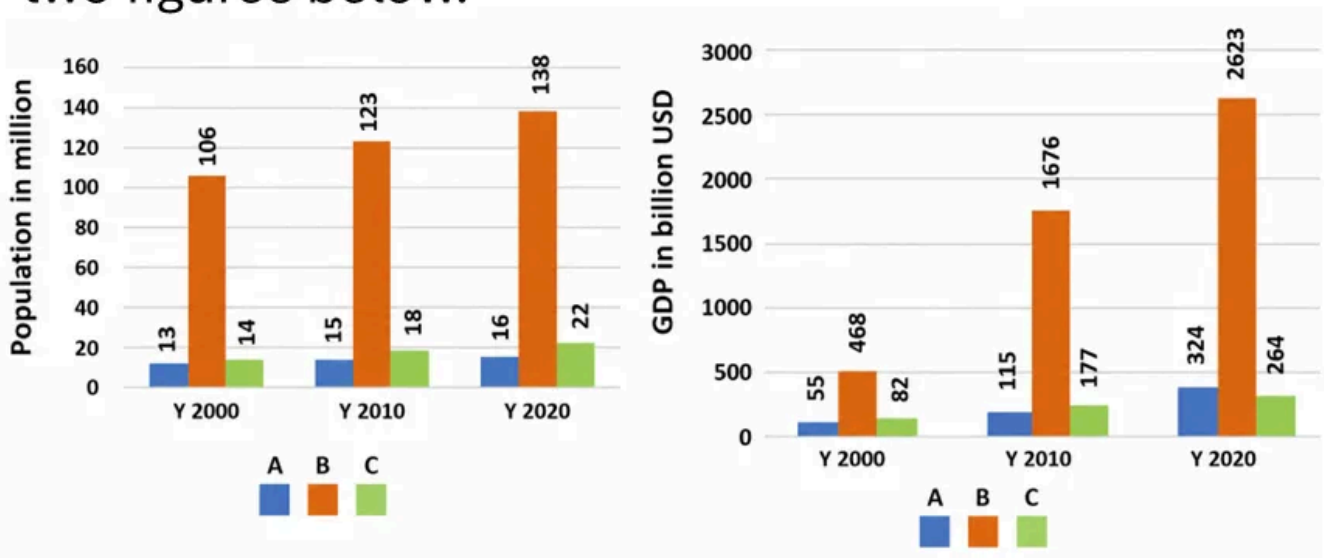
1. C
2. A
3. B
4. D

Q15. [June 2023] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2023 June	2M
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The populations and gross domestic products (GDP) in billion USD of three countries A,B and C in the years 2000, 2010 and 2020 are shown in the two figures below.



The decreasing order of per capita GDP of these countries in the year 2020 is

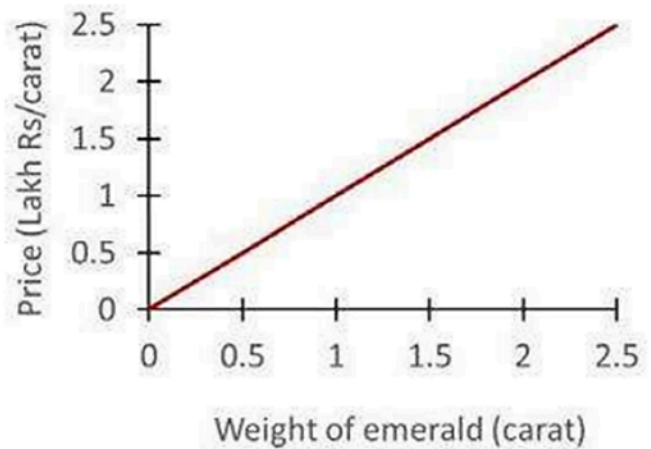
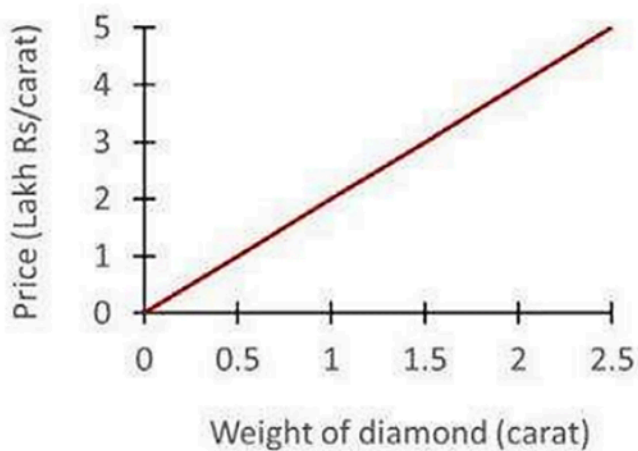
1. A, B, C
2. A, C, B
3. B, C, A
4. C, A, B

Q16. [Dec 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 Dec	2M
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The diagrams show the rates of diamond and emerald in a range of sizes. A person wants to buy a diamond and an emerald of identical size for a total of Rs. 6,75,000/-. What is that size?



1. 1 carat
2. 1.5 carat
3. 2 carat
4. 2.5 carat

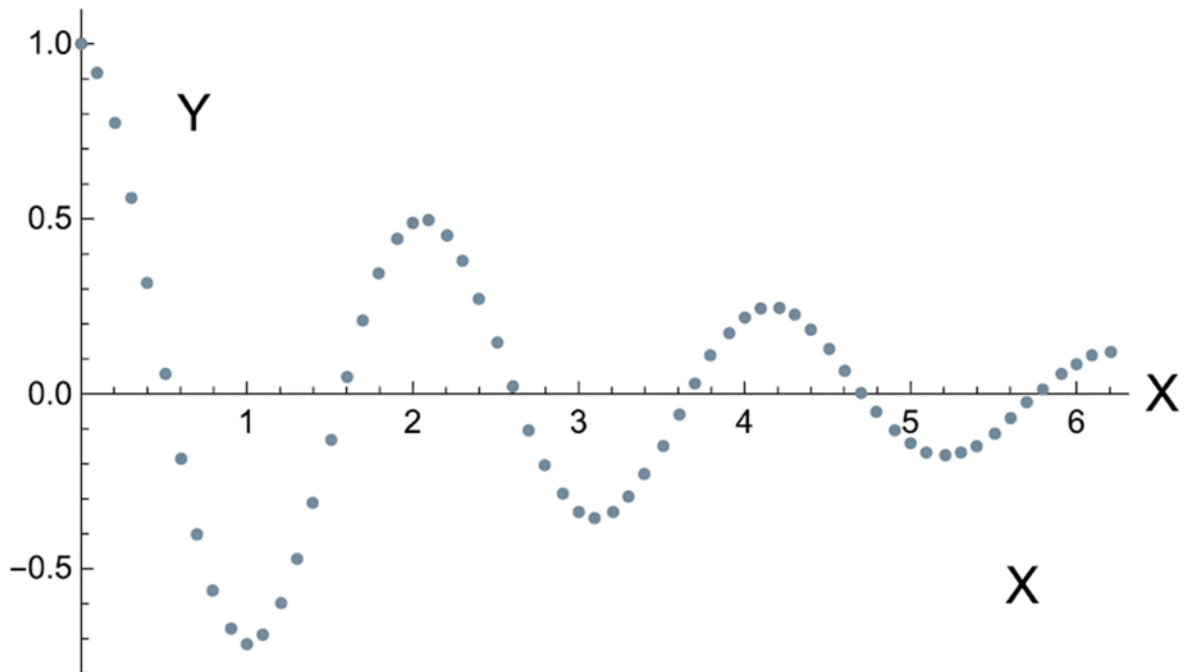
Q17. [Dec 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 Dec	2M
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An experiment has collected data in some units which is presented in the below X-Y graph.

What would be the best function to fit the data? (for some positive constant k)



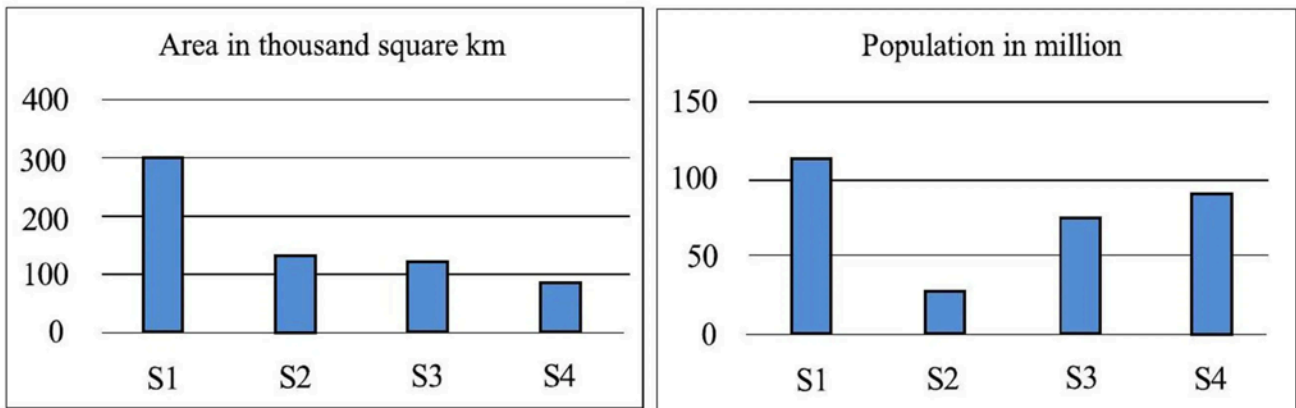
1. $Y = \cos[kX]$
2. $Y = \sin[kX^2]$
3. $Y = \tan[kX^3]$
4. $Y = e^{-\frac{x}{k}} \cos[kX]$

Q18. [June 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 June	2M
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Areas and populations of four states S1, S2, S3 and S4 are shown.



Their arrangement in decreasing order of population density would be

1. S4, S3, S1, S2
2. S1, S2, S3, S4
3. S4, S1, S3, S2
4. S2, S1, S3, S4

Q19. [June 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 June	2M
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The population of a town is increasing at a uniform rate. If its population was 90,000 and 96000 in 2022 and 2023 respectively, what would be its population in 2024 ?

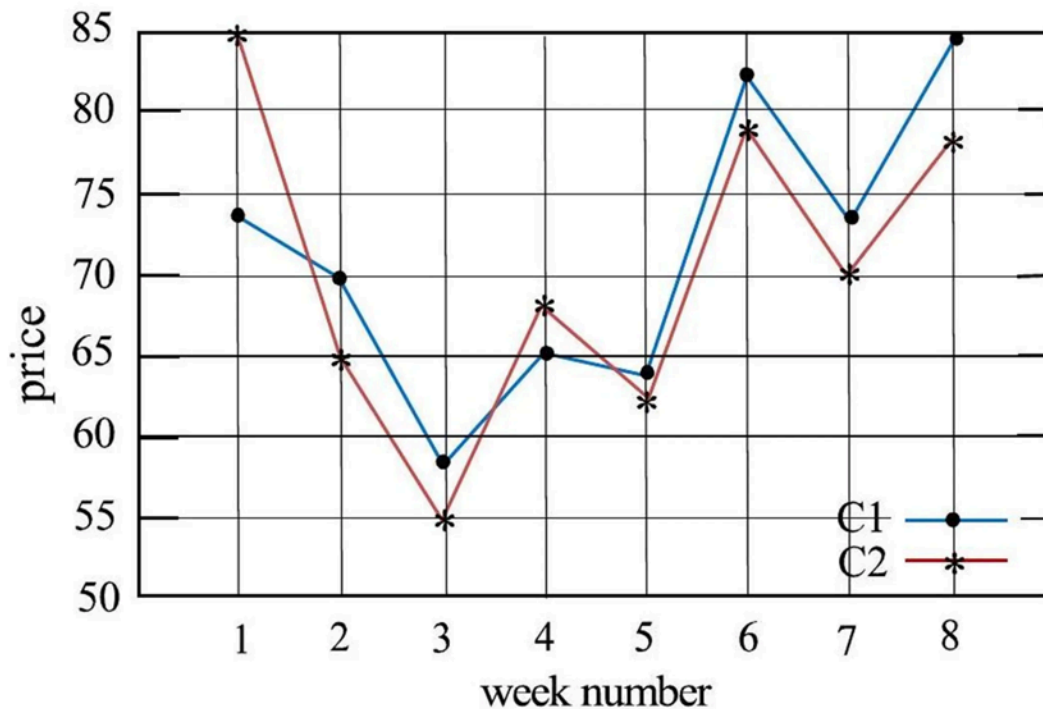
1. 102,000
2. 102,400
3. 102,720
4. 102,960

Q20. [June 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 June	2M
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The two graphs show the change in price of two commodities C1 and C2 over 8 weeks.



Which of the statements is correct?

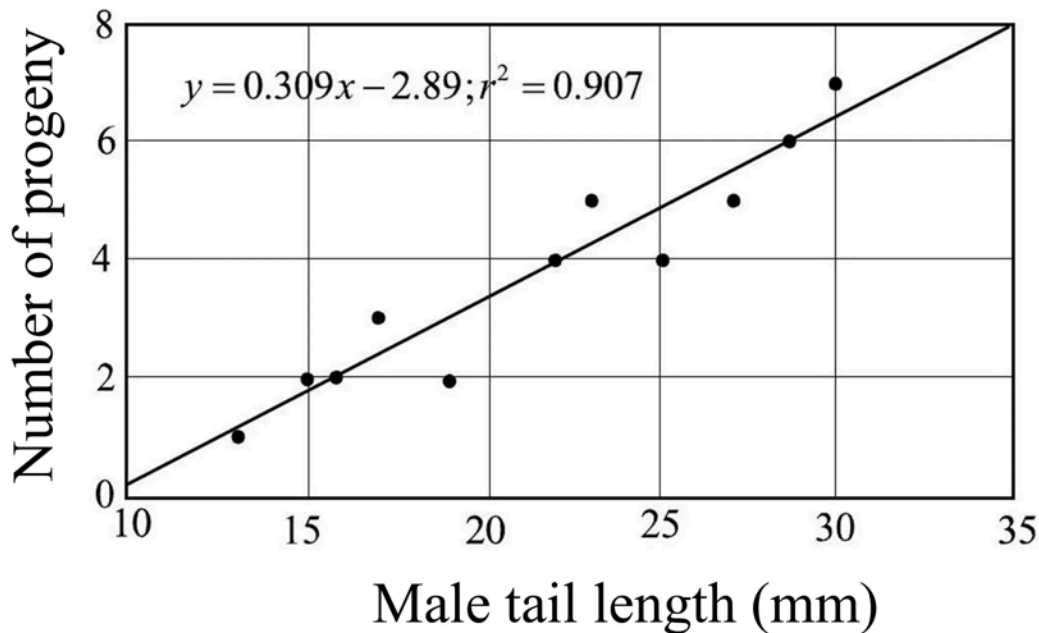
1. C1 has higher fluctuation than C2
2. Average price of C 1 is lower than that of C 2
3. The largest change in a week is shown by C2
4. C1 shows a tendency of reduction

Q21. [June 2024] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2024 June	2M
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The graph shows observations and a regression line of the number of progeny on the tail length of male birds.



Which of the following can be inferred from the graph?

1. Producing less progeny decreases the tail length of the males.
2. Males cannot have a tail length lesser than 10 mm .
3. Males with longer tails tend to father more progeny.
4. For a male with a 25 mm tail, the expected number of progeny is 4 .

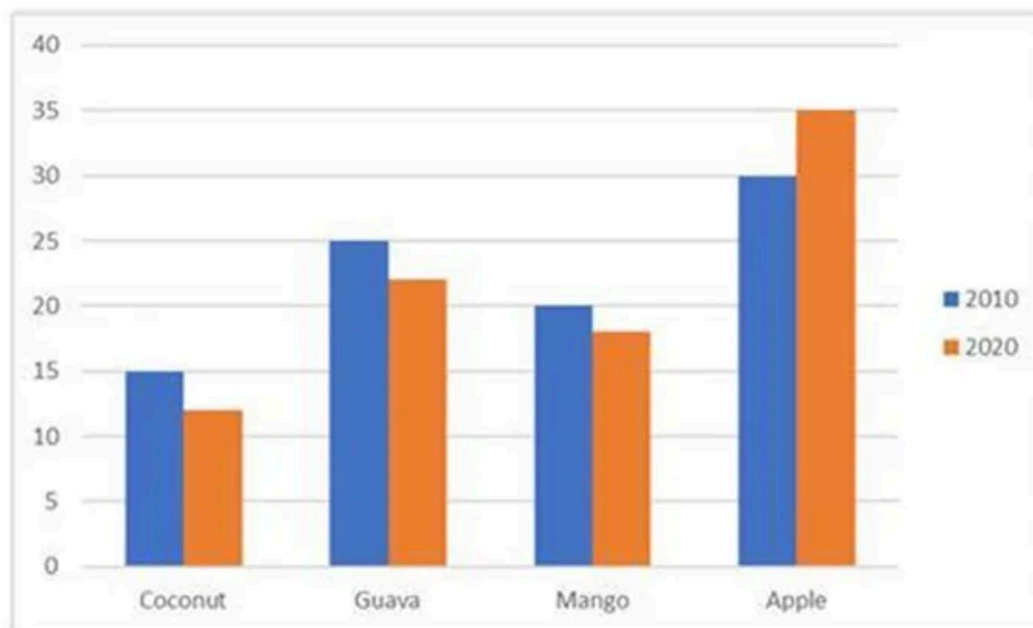
Q22. [Dec 2025] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2025 Dec	2M
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The numbers (in millions) of coconut, guava, mango and apple trees in a region in 2010 and 2020 are shown in the following figure.

The maximum relative change in numbers was for



1. coconut trees
2. guava trees
3. mango trees
4. apple trees

Q23. [Dec 2025] . 2.0 marks

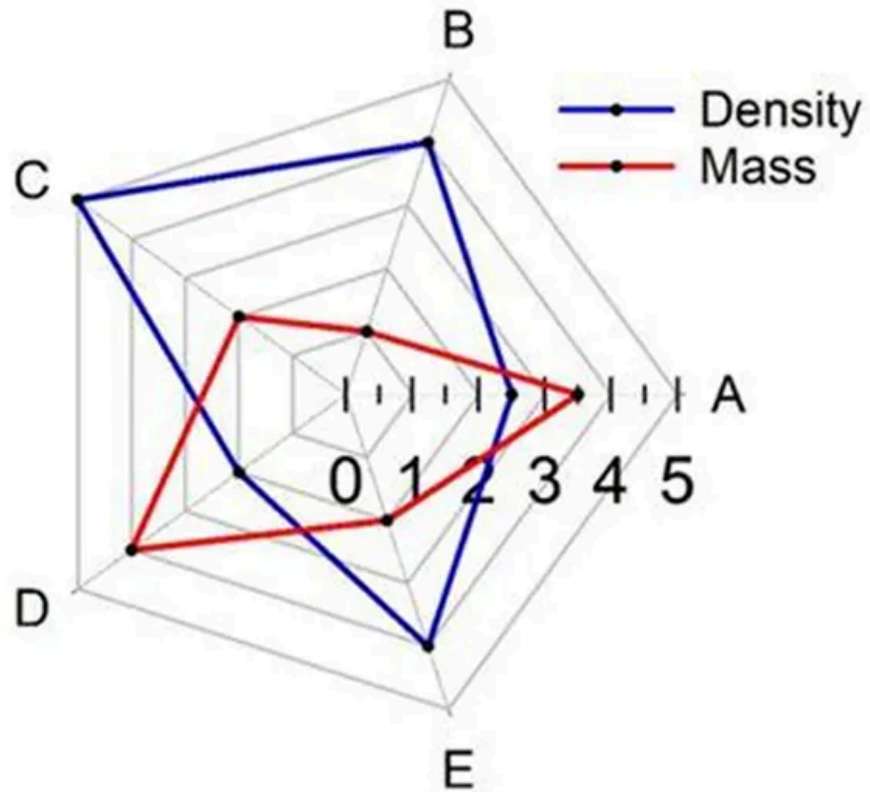
General Aptitude > Data Analysis

CSIR NET	2025 Dec	2M
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The following figure shows densities and masses of five objects (A to E).

The object with the largest volume is ____ .

1. A
2. B
3. D
4. E

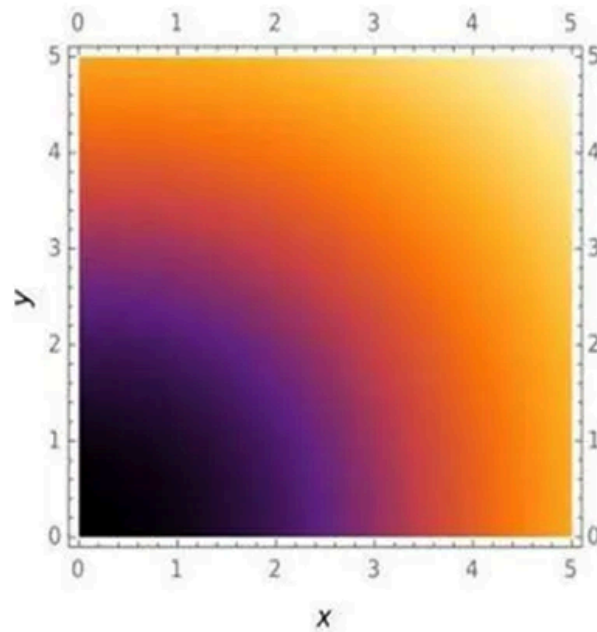


Q24. [Dec 2025] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2025 Dec	2M
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The following plot shows temperature as a function of x and y . Along which path is the temperature change minimum?



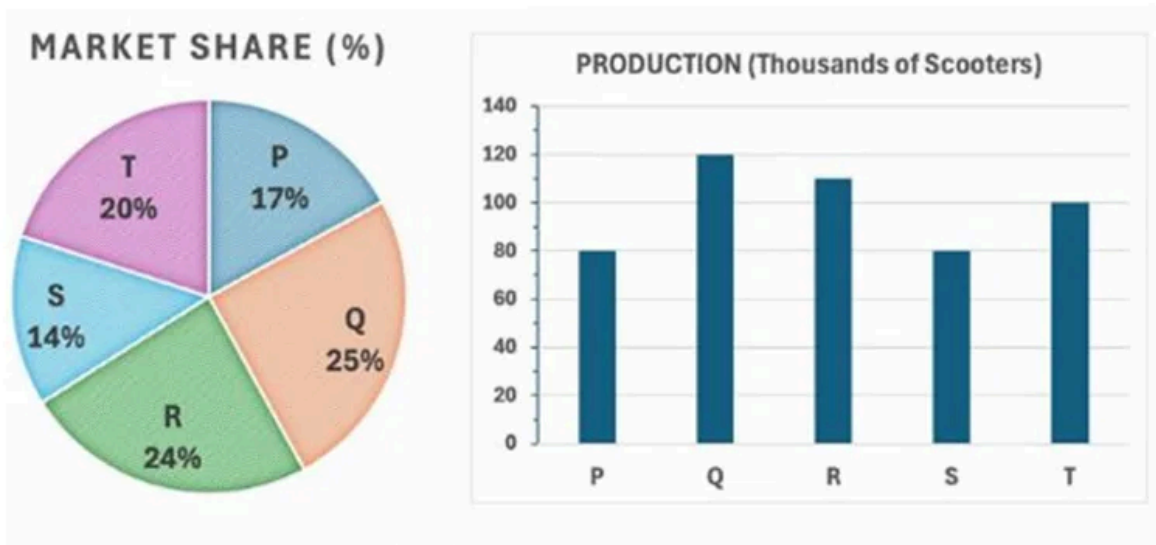
1. $x = \text{constant}$ or $y = \text{constant}$
2. $\frac{y}{x^2} = \text{constant}$
3. $y^2 + x^2 = \text{constant}$
4. $yx = \text{constant}$

Q25. [June 2025] . 2.0 marks

General Aptitude > Data Analysis

CSIR NET	2025 June	2M
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The market share (%) and annual production of scooters from five automobile companies P, Q, R, S, and T are shown in graphs. If the profit of a company is directly proportional to the ratio of market share to production, then which of the following statements is/are CORRECT?



Statement X: Companies T and P have same profit

Statement Y: Company R has the maximum profit

Statement Z: Company S has the minimum profit

1. X and Y
2. X and Z
3. Y and Z
4. Only Z

Answer Key

25 questions . Subject and topic for quick revision

Q. No	Subject	Topic	Answer
Q1	General Aptitude	Data Analysis	2
Q2	General Aptitude	Data Analysis	2
Q3	General Aptitude	Data Analysis	2
Q4	General Aptitude	Data Analysis	2
Q5	General Aptitude	Data Analysis	1
Q6	General Aptitude	Data Analysis	4
Q7	General Aptitude	Data Analysis	3
Q8	General Aptitude	Data Analysis	4
Q9	General Aptitude	Data Analysis	1
Q10	General Aptitude	Data Analysis	1
Q11	General Aptitude	Data Analysis	4
Q12	General Aptitude	Data Analysis	1
Q13	General Aptitude	Data Analysis	1
Q14	General Aptitude	Data Analysis	1
Q15	General Aptitude	Data Analysis	1
Q16	General Aptitude	Data Analysis	2
Q17	General Aptitude	Data Analysis	4
Q18	General Aptitude	Data Analysis	1
Q19	General Aptitude	Data Analysis	2
Q20	General Aptitude	Data Analysis	3
Q21	General Aptitude	Data Analysis	3
Q22	General Aptitude	Data Analysis	1
Q23	General Aptitude	Data Analysis	3
Q24	General Aptitude	Data Analysis	3
Q25	General Aptitude	Data Analysis	3

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