

Question Paper (based on Predicted Pattern 2017)

- Q1. If 4/5 of Rs. 100 is x% larger than (4/5)% of Rs. 100, then x/100 is
 - 1. 99
 - 2. 9900
 - 3. 90
 - 4. 75
- Q2. How much percentage above the cost price should a shopkeeper mark his good so that after allowing a discount of 10%, he should gain 35%?

- 1. 25%
- 2. 140%
- 3. 50%
- 4. 16%
- Q3. A bag contains coins of Rs. 1, 50 paise and 25 paise in the ratio 3 : 4 : 5. If the total value of these coins is Rs. 125, then the number of 25 paise coins in that bag was

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- 1. 80
- 2. 60
- 3. 100
- 4. 120













- The value of sec⁴A $(1 \sin^4 A) 2 \tan^2 A$ is Q4.
 - 1. (
 - 2. 1
 - 2 3.
 - 4. $1/_{2}$
- Q5. The length of a room is 5 m more than its breadth. If the area of the floor of the room is 66 m², then the perimeter of the floor will be
 - 1. 28 m
 - 2. 17 m
 - 3. 14 m
 - 4. 34 m
- Q6. Supravat deposited a sum of money with a bank on 1st January, 2016 at 5% simple interest per annum. He received an amount Rs. 3, 750 on 20th July, 2016. The money he deposited with the bank was
 - 1. Rs. 3,080
 - 2. Rs. 2,550
 - 3. Rs. 3,650
 - Rs. 3,200 4.
- The length of two parallel chords of a circle of radius 20 cm are 24 cm and 32 cm Q7. in the same side of the center. The distance between them is

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- 1. 4 cm
- 2. 3 cm













- 3. 3.5 cm
- 4. 5 cm
- Q8. In two days A, B and C together can finish 1/3 of a work and in another 2 days A and C together can finish 2/9 part of the work. Then B alone can complete the whole work in
 - 1. 15 days
 - 2. 18 days
 - 3. 20 days
 - 4. 32 days
- Q9. The angle of elevation of the Sun when the length of the shadow of a lamp post is equal to its height, is
 - 1. 60°
 - 2. 30°
 - 3. 45°
 - 4. 90°

Q10. Simplify

 $\frac{1 - (\sqrt[3]{0.015625} + \sqrt[4]{0.0016} + \sqrt{0.09})}{\sqrt[3]{62.5 \times \sqrt[5]{32}}}$ 1. 0.25
2. 2.5

- 3. 0.05
- 4. 0.025







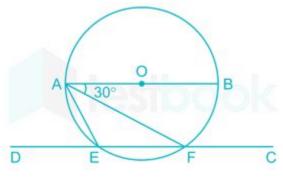




- Q11. The centers of three circles of equal radii, touching each other externally form a/an
 - 1. Right angle triangle
 - 2. Isosceles triangle
 - 3. Equilateral triangle
 - 4. Scalene triangle

Q12. If $(a + \frac{1}{a})^2 = 3$, then find the value of $a^{27} + a^{21} + a^{15} + a^9 + 1$

- 1. -1
- 2. 1
- 3. 27
- 4. O
- Q13. AB is diameter of circle with centre at O. DC is a secant that passes through the circle at points E and F as shown, such that DC || AB. If ∠BAF = 30°, then ∠ AED is equal to:



- 1. 120°
- 2. 60°
- 3. 90°















- Q14. The average monthly income of a family of 4 earning members was Rs. 7500. One of the earning member died, thereby, the average became Rs. 7200. The monthly income (in rupees) of the deceased was
 - 1. 8,000
 - 2. 8,500
 - 3. 7,900
 - 4. 8,400
- Q15. A man spends his three months' income in four months' time. If the monthly income is Rs. 2,000, then what is the amount of the money he saves annually
 - 1. Rs. 3,000
 - 2. Rs. 4,000
 - 3. Rs. 6,000
 - 4. Rs. 9,000
- Q16. A man walks a certain distance in certain time, if he had gone 10 km an hour faster, he would have taken 20 hours less than the scheduled time. If he had gone 15 km an hour slower, he would have been 45 hours longer on the road. The distance (in km) is
 - 1. 9500
 - 2. 9600
 - 3. 9750
 - 4. 9870











- Q17. In a regular polygon if one of its internal angle is greater than the external angle by 150°, then the number of sides of the polygon is
 - 1. 24
 - 2. 22
 - 3. 25
 - 4. 26
- Q18. A low land, 64 m long and 32.4m broad is raised to 6.5 dm. For this, earth is removed from a cuboidal hole, 27 m long and 25.6 m broad, dug outside of the land. The depth of the hole will be.
 - 1. 2.5 m
 - 2. 1.95 m
 - 3. 2.05 m
 - 4. 2.2 m
- Q19. 4 bells ring at intervals of 30 min, 1 h, 112h112h and 1 h 45 min respectively. All the bells ring simultaneously at 12:00 noon. They will again ring simultaneously at
 - 1. 12:00 mid night
 - 2. 6:25 PM
 - 3. 6:00 am
 - 4. 9:00 am

Q20. If x and y are positive such that x : y = 4 : 5 and $x^2 - y^2 = -36$, then the value of x - y

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- İS
- 1. -2













- 3. -8
- 4. -3
- Q21. A vendor purchased 40 dozen bananas for Rs. 300. Out of these 30 bananas were rotten and could not be sold. At what rate per dozen should he sell the remaining bananas to make a profit of 25%
 - 1. Rs. 8
 - 2. Rs. 6
 - 3. Rs. 10
 - 4. Rs. 12
- Q22. By melting two solid metallic spheres of radii 1 cm and 6 cm, a hollow sphere of thickness 1 cm is made. The external radius of the hollow sphere will be

- 1. 6 cm
- 2. 7 cm
- 3. 9 cm
- 4. 8 cm
- Q23. The side BC of a triangle ABC is extended to D. If $\angle ACD = 119^{\circ}$ and $\angle B = \frac{3}{4} \angle A$, then the measure of $\angle B$ is
 - 1. 51°
 - 2. 64°
 - 3. 48°
 - 4. 30°













- Q24. A water reservoir has two inlets and one outlet. Through the inlet it can be filled in 3 hours and 3 hours 45 mins respectively. It can be emptied completely in 1 hour by the outlet. If the two inlets are opened at 2 pm and 3 pm respectively and the outlet at 4 pm, then it will be emptied at
 - 1. 6:30 pm
 - 2. 6 pm
 - 3. 6:20 pm
 - 4. 6:55 pm
- Q25. Gopal bought 1600 eggs at Rs. 3.75 per dozen. He sold 900 of them at 2 for Rs. 1 and the remaining at 5 for Rs. 2. His gain percent is:
 - 1. 40%
 - 2. 45%
 - 3. 42%
 - 4. None of these

Q26. A train covers a distance of 20 km in 15 minutes, If its speed is increased by 10 km / hr, the time taken by it to cover the same distance will be:

- 1. 13 minutes 20 seconds
- 2. 12 minutes
- 3. 11 minutes 10 seconds
- 4. 10 minutes

Q27. If $x^2 + y^2 + z^2 = 2(x + z - 1)$, then the value of $x^3 + y^3 + z^3 = ?$

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1. 1











- 3. 0
- 4. 2
- Q28. If A, B and C denote respectively the number of vertices, edges and faces of a cuboid, then A + B + C is
 - 1. 20
 - 2. 22
 - 3. 14
 - 4. 26
- Q29. Mrs. Sinha spends 18% of her monthly income for the children's education, 32% in household expenses, 12% in travelling and 25% in gambling and manages to save only Rs. 9, 405 at the end of the month. What is Mrs. Sinha's monthly income?
 - 1. Rs. 66,726
 - 2. Rs. 52,346
 - 3. Rs. 72,346
 - 4. Cannot be determined
- Q30. The measure of each interior angle of a regular polygon with 8 sides is
 - 1. 100°
 - 2. 45°
 - 3. 120°
 - 4. 135°











- Q31. Mr. Vikrant deposits an amount of Rs 56, 500 to obtain a simple interest at the rate of 12% per annum for 3 years. What total amount will Mr. Vikrant get at the end of three years?
 - 1. Rs 76, 840
 - 2. Rs 72, 434
 - 3. Rs 83, 450
 - 4. Rs 56, 450

Q32. Find the value of $(25 \times (10 + 5) - 15) \div 62$

- 1. 20
- 2. 10
- 3. 60
- 4. O
- Q33. The ratio of the ages of Rahul and Ravi is 3 : 4. After 6 years, the new ratio of their ages will be 4 : 5. What is the age of Ravi at present?
 - 1. 15 years
 - 2. 18 years
 - 3. 20 years
 - 4. 24 years
- Q34. The average of 8 numbers is M and the average of four of these is N. if the average of remaining four is P, then-

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- 1. 2M = N + P
- 2. M = N + 2P







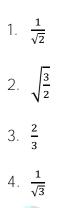






- 3. M = 2N + P
- 4. M = 2M + 2N

Q35. In $\sin(90^\circ - \theta) + \cos \theta = \sqrt{2}\cos(90^\circ - \theta)$, then the value of $\csc \theta$ is



Q36. When a painting is sold at a gain of 20% it yield Rs. 600 more than when it is sold at a loss of 20%. the cost price of the price is

1. Rs. 2000

- 2. Rs. 1500
- 3. Rs. 1400
- 4. Rs. 1200
- Q37. The length of tangent drawn from an external point P to a circle of radius 7 cm is 24 cm. The distance of P from the centre of the circle is

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- 1. 17 cm
- 2. 19 cm
- 3. 23 cm
- 4. 25 cm













- Q38. Three bells ring simultaneously at 11 a.m. They ring at regular intervals of 20 minutes, 30 minutes and 40 minutes respectively. The time when all the three ring together next is
 - 1. 2 p.m
 - 2. 1 p.m.
 - 3. 1.15 p.m.
 - 4. 1.30 p.m.
- Q39. The sum of four numbers is 48. When 5 and 1 are added to the first two, 3 and 7 are subtracted from the 3rd and 4th, the numbers will be equal. The numbers are
 - 1. 6, 10, 14, 18
 - 2. 5, 11, 13, 19
 - 3. 9, 7, 15, 17
 - 4. 4, 12, 12, 20
- Q4O. If the angles of a triangle are in the ratio 3 : 4 : 5, then the measure of the least angle of the triangle is
 - 1. 60°
 - 2. 15°
 - 3. 30°
 - 4. 45°

Q41. If x = 2, y = 4 and z = -3, then $x^3 - y^3 - z^3 - 3xyz$ is equal to

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- 1. 43
- 2. 33













34 4.

Q42. If 5 tan A = 3, then the value of

$5\sin A - 2\cos A$									
$\sin A + 2\cos A$									
1.	7/9								
2.	5/13								
3.	9/13								
4.	5/7								
A 10	etangular plat is 122								

Q43. A rectangular plot is 122m long and 88m wide. It has a path 2m wide all around it on the outside. Find the cost of constructing it at Rs 2 per square meter.

1.	2117 R	S				

- 2. 1712 Rs
- 3. 712 Rs
- 856 Rs 4.
- Q44. In a family, the average age of a father and a mother is 35 years. The average age of the father, mother and their only son is 27 years. What is the age of the son?

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- 1. 12 years
- 2. 11 years
- 3. 10.5 years
- 10 years 4.

Q45. $\{(0.68)^3 + (0.82)^3\}/(0.3^2 - 0.2^2)$ is











- 1. 173.16
- 2. 0.17316
- 3. 1.7316
- 4. 17.316
- Q46. A is a point on the positive x-axis with abscissa 10, B is a point on y-axis with ordinate -17 and C is a point on x-axis with abscissa 8. Find the area of the triangle ABC.
 - 1. 146 sq. units
 - 2. 143 sq. units
 - 3. 156 sq. units
 - 4. 153 sq. units
- Q47. The LCM of two given numbers is 6 times the HCF of the numbers. If the smaller of the two numbers is 6, then the other numbers is
 - 1. 15
 - 2. 8
 - 3. 9
 - 4. 12
- Q48. If a²b, bc, x and c² are in continued proportion, then find x, if none of these is equal to zero.
 - 1. ac
 - 2. a²b²
 - 3. а² с











Q49. The medians CD and BE of an equilateral triangle ABC intersect each other at O.

The ratio of Δ ODE : Δ ABC is equal to

- 1. 1:12
- 2. 12 : 1
- 3. 4:3
- 4. 3:4
- Q50. Rahul bought a lottery ticket and won an offer. According to the offer he will be given successive discount up to 4 days on any item. First day he will get a discount of 10% and each day the discount doubles (i.e. on second day he will get a discount of 20%, 40% on third day and so on up to 4 days). If the rate of an item is Rs. 1 Lakh, find its rate after successive discount up to 4 days.
 - 1. 20000
 - 2. 8640
 - 3. 30240
 - 4. 6480

Q51. If $x + \frac{1}{x} = 3$, then the value of $x^5 + \frac{1}{x^5}$ is

- 1. 132
- 2. 110
- 3. 122
- 4. 123











- Q52. If the sum of all interior angles of a regular polygon is 14 right angles, then its number of sides is
 - 1. 7
 - 2. 9
 - 3. 6
 - 4. 8
- Q53. Work done by (x + 4) men in (x + 5) days is equal to the work done by (x 5) men in (x + 20) days. Then the value of x is
 - 1. 25
 - 2. 9
 - 3. 6
 - 4. 8

Q54. The rate of simple interest per annum of bank being decreased from 5% to $3\frac{1}{2}$ %, the annual income of a person from interest was less by Rs. 105. The sum deposited at the bank was

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- 1. Rs. 7,000
- 2. Rs. 6,000
- 3. Rs. 7,200
- 4. Rs. 6,800

Q55. If $x\cos\theta - \sin\theta = 1$ then $x^2 + (1 + x^2)\sin\theta$ equals:

- 1. O
- 2. $3\sec 2\theta (1 + \sin \theta) + 4$











- 3. $4\sec 2\theta (1 + \sin \theta)$
- 4. $4\sec^2\theta (1 + \sin\theta) 3$

Q56. The value of expressions $\sqrt{6 - \sqrt{6 - \sqrt{6 - \cdots - \cdots}}}$

- 1. 2
- 2. 30
- 3. 5
- 4. 3
- Q57. The list price of an electric fan is Rs. 300. If two successive discounts of 15% and 10% are allowed, its selling price would be
 - 1. Rs. 227.50
 - 2. Rs. 225
 - 3. Rs. 230
 - 4. Rs. 229.50
- Q58. Height of a prism-shaped part of a machine is 8 cm and its base is an isosceles triangle, whose each of the equal sides is 5 cm and remaining side is 6 cm. The volume of the part is
 - 1. 90 cm3
 - 2. 86 cm3
 - 3. 120 cm3
 - 4. 96 cm3

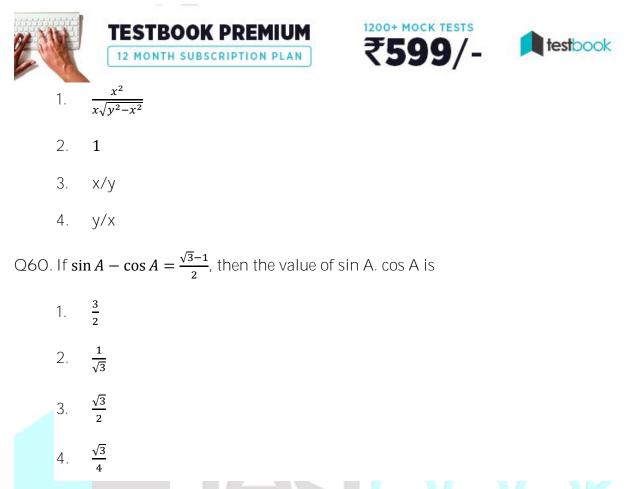
Q59. If $\sin \theta = \sqrt{\frac{x^2 - y^2}{x^2 + y^2}}$, then the value of $\sqrt{(\sec^2 \theta + \tan^2 \theta)}$ is (where $o^\circ < \theta < 90^\circ$):

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- Q61. Two trains start at the same time from Aligarh and Delhi and proceed towards each other at the rate of 14 kmph and 21 kmph respectively. When they meet, it is found that one train has travelled 70 km more than the other. The distance between two stations is
 - 1. 350 km
 - 2. 140 km
 - 3. 210 km
 - 4. 300 km
- Q62. There is a rebate of 15% on amount up to Rs. 300 and a discount of 20% on the remaining amount exceeding Rs. 300 if electric bills are paid in time. A man got a rebate of Rs. 64 by paying the bill in time. His electric bill was (Assuming the total bill was above Rs. 300)







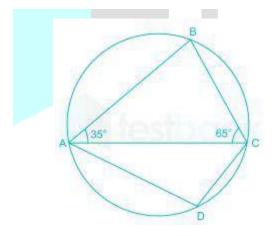


- 1. Rs. 365
- 2. Rs. 385
- 3. Rs. 395
- 4. Rs. 375

Q63. If ax + by = 8, bx - ay = 9 and $x^2 + y^2 = 5$, then the value of $a^2 + b^2$ is -

- 1. 25
- 2. 29
- 3. 21
- 4. 23

Q64. In the given figure, $\angle BAC = 35^{\circ}$ and $\angle BCA = 65^{\circ}$, then find the value of $\angle ADC$.



- 1. 80°
- 2. 100°
- 3. 60°
- 4. 120°









- Q65. A is twice as efficient as B. Together they can do a work in 21 days. In how many days will B finish the work?
 - 1. 54 days
 - 2. 57 days
 - 3. 60 days
 - 4. 63 days

Q66. If $\cos(10^{\circ} 7' 32'') = a$, then the value of $\sin(79^{\circ} 52' 28'') + \tan(10^{\circ} 7' 32'')$ is –

1.
$$\frac{a^2 + \sqrt{a^2 - 1}}{a}$$
2.
$$\frac{a^2 + \sqrt{1 - a^2}}{a}$$
3.
$$\frac{a^2 - \sqrt{a^2 - 1}}{a}$$
4. 1

Q67. The diagonals of a rhombus are 16 cm and 12 cm respectively. The perimeter of the rhombus is:

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- 1. 40 cm
- 2. 42 cm
- 3. 38 cm
- 4. 34 cm

Q68. If $(\sqrt{5})^5 \times 25^2 = 5^x \times 5\sqrt{5}$, then x is equal to

- 1. 2
- 2. 3









4. 5

Q69. Find the remainder when $f(x) = 8x^3 - 6x^2 - 4x + 3 + k$ is divided by g(x) = x/3 - 1/4, where 'k' is a constant.

- 1. k + 3
- 2. k + 1
- 3. k
- 4. k 1
- Q70. A sum is invested at 10% annual rate of simple interest for 4 years. Rs. 355 is the increase in interest if the rate of interest is increased by 5% of the initial rate. What is the sum?
 - 1. Rs. 17000
 - 2. Rs. 17450
 - 3. Rs. 17750
 - 4. Rs. 17550

Q71. If $(1 \times 2 \times 3 \times 4 \times 5 \times ... \times n) = n!$, then (17! - 16! - 15!) is equal to -

- 1. 17 × 15 × 15!
- 2. 17 × 15 × 16!
- 3. 17 × 16 × 16!
- 4. 16 × 15 × 14!
- Q72. The tops of two poles of height 24 m and 36 m are connected by a wire. If the wire makes an angle of 60° with the horizontal, then the length of the wire is











- 1. 6 m
- 2. 8√3 m
- 3. 8 m
- 4. 6√3 m
- Q73. Find total surface area (in sq. cm) of a hollow globe with radius 18 cm and thickness 10 mm.
 - 1. **972** π
 - 2. **1552** π
 - 3. **2320** π
 - 4. **2452** π
- Q74. An exterior angle of a regular polygon is 60°, then find the number of sides of the polygon.

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

Q75. A car moving at a speed of 45 km/hr overtakes a bus 150 meters ahead going in the same direction in 30 seconds. The speed of the bus is

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- 1. 27 km/hr
- 2. 24 km/hr
- 3. 25 km/hr
- 4. 28 km/hr













- Q76. If goods be purchased for Rs. 900 and one third sold at a loss of 10%. At what gain percent should the remainder be sold so as to gain 20% on the whole transaction?
 - 1. 30%
 - 2. 32%
 - 3. 35%
 - 4. 28%
- Q77. Two identical rectangular sheets of paper 27.5 cm × 49.5 cm are rolled, one along its length, and the other along its breadth and two cylinders are formed. The ratio of volume of cylinders is
 - 1. 7:5
 - 2. 9:5
 - 3. 8:5
 - 4. 6:5

Q78. PQ is a tangent at point R on a circle, in which O is the centre and its radius is 8 cm. If OQ = 17 cm and OP = 10 cm, then the length of PQ is –

- 1. 18 cm
- 2. 19 cm
- 3. 23 cm
- 4. 21 cm

Q79. If $a\sin\theta + b\cos\theta = c$ then the value of $a\cos\theta - b\sin\theta$ is:

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- $1. \quad \pm \sqrt{-a^2 + b^2 + c^2}$
- $2. \quad \pm \sqrt{a^2 + b^2 c^2}$









- 3. $\pm \sqrt{a^2 b^2 c^2}$
- $4. \quad \pm \sqrt{a^2 b^2 + c^2}$

Q80. A fraction bears the same ratio to 1/15 as 5/6 does to 2/3. The fraction is

- 1. 1/24
- 2. 1/18
- 3. 1/12
- 4. 1/21
- Q81. A petrol pump owner mixes 105 liters of petrol of price Rs. 65/liter with 5 liters of kerosene of price Rs. 15/liter. At what price does he sell the adulterated petrol to gain 10% per liter?
 - Rs. 68
 Rs. 67
 Rs. 69
 - 4. Rs. 70

Q82. Find the wrong number in the series:

- 3, 7, 15, 39, 63, 127, 255, 511
- 1. 15
- 2. 39
- 3. 63
- 4. 127

Q83. If $\frac{sec\theta + tan\theta}{sec\theta - tan\theta} = \frac{5}{3}$ then $\sin\theta$ is equal to













- 2. 1/3
- 3. 2/3
- 4. ³⁄₄

Q84. If G be the centroid and AD be the median of Δ ABC and AG = 4 cm, then DG is

- 1. 2 cm
- 2. 3 cm
- 3. 4 cm
- 4. 5 cm

Q85. Find the missing number:

58, 5	57, 54, 49, ?	-		
1.	42			
2.	43			
3.	44			
4.	46			

Q86. If the sum of twice of x and twice of y is equal to thrice of x. What is the value of y?

- 1. Equal to x
- 2. Twice of x
- 3. Half of x
- 4. One third of X













- Q87. To raise the height of a low land, 54 m long and 9.5 m broad, by 7.2 m; a ditch, 45.6 m long and 18 m broad, was dug outside the plot. The depth of the ditch will be
 - 1. 4.5 m
 - 2. 4 m
 - 3. 3.75 m
 - 4. 3.5 m
- Q88. The length of a shadow of a vertical tower is $13\sqrt{13}$ times its height. The angle of elevation of the sun is
 - 1. 30°
 - 2. 45°
 - 3. 60°
 - 4. 90°

Q89. The base radii of two cylinders are in the ratio 3: 2 and their heights are in the ratio 2: 5. The ratio of their volumes is:

- 1. 27 : 20
- 2. 20:27
- 3. 9:10
- 4. 10:9
- Q90. A man borrows some money at 3% simple interest per annum and lends it to somebody at 5% interest to be compounded annually. By this he makes a profit of Rs. 541 at the end of 3 years. The money he borrowed was
 - 1. Rs. 8,000
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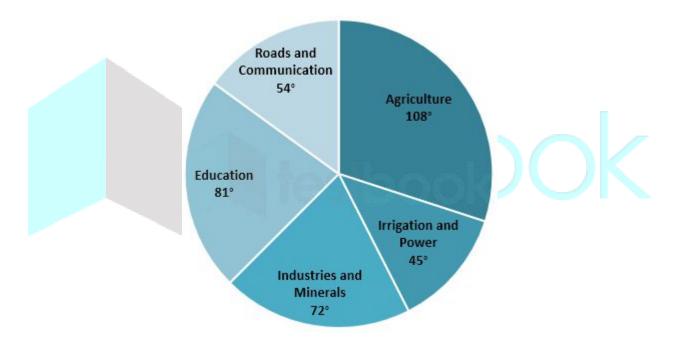


- 2. Rs. 6,762
- 3. Rs. 6,000
- 4. Rs. 8,070

Comprehension Start (91 to 94)

Directions: Examine the chart and answer the question.

Fifty Five Year Plan of Rs. 40000 (in crore)



Q91. The percentage of budget spent on education is:

- 1. 22.5%
- 2. 25%
- 3. 27.5%









- Q92. The percentage by which the amount spent on education is greater than that on roads and communication is:
 - 1. 50%
 - 2. 25%
 - 3. 20%
 - 4. 100%
- Q93. The amount (in Rs. crore) proposed on irrigation and power is less than on industries and minerals by
 - 1. 3000
 - 2. 3500
 - 3. 2000
 - 4. 2500

Q94. The amount proposed on agriculture is more than that on industries and minerals

- by
- 1. 25%
- 2. 50%
- 3. 12%
- 4. 12.5%

Comprehension end

Q95. If 75% of the employees in an office are men, 5 employees are transgender and 545 employees are women, then the number of men are









- 1. 1176
- 2. 1008
- 3. 1650
- 4. 1208

Q96. The number of seconds taken by a 750 m. long train with speed 80 km per hour to cross a man walking at 5 km. per hour in the same direction is

- 1. 20
- 2. 25
- 3. 30
- 4. 36

Q97. The average of all the prime numbers between 10 and 30 is

- 1. 9.625
- 2. 19.75
- 3. 18.67
- 4. 10.625
- Q98. If x + y = 5, where x and y are non-negative integers, then the least possible value of $(x y)^2$ is
 - 1. -1
 - 2. 1
 - 3. 25
 - 4. 9











Q99. A cylinder has a diameter of 28 cm and the area of its curved surface is 1320 sq.cm. the volume of the cylinder is

- 1. 8028 cm³
- 2. 8268 cm³
- 3. 9024 cm³
- 4. 9240 cm³

Q100. If $\cos x + \cos^2 x = 1$, the numerical value of $(\sin^{12}x + 3\sin^{10}x + 3\sin^8x + \sin^6x - 1)$

- is:
- 1. -1
- 2. 2
- 3. O
- 4. 1

