Section : **Part C Elementary Mathematics**

Q.1 Two positive numbers are in the ratio of 7 : 4. If the difference between their squares is 297, then the sum of the two numbers is:

Ans ✗ 1. 35

✔ 2. 33

✗ 3. 32

✗ 4. 42

Question ID : **65497833727**
Status : **Answered**
Chosen Option : **2**

Q.2 A fruit seller had some apples. He sold 40% apples and still had 540 apples. The number of apples he had originally was:

Ans ✗ 1. 600

✗ 2. 800

✗ 3. 740

✔ 4. 900

Question ID : **65497833733**
Status : **Answered**
Chosen Option : **4**

Q.3 Excluding stoppages, the speed of a bus is 60 km/h and including stoppages, it is 42 km/h. For how many minutes does the bus stop per hour?

Ans ✗ 1. 12

✔ 2. 18

✗ 3. 9

✗ 4. 10

Question ID : **65497833735**
Status : **Answered**
Chosen Option : **2**

Q.4 In a sale, perfumes are available at a discount of 25% on the selling price. If a perfume costs ₹6,873 in the sale, what is the original selling price of the perfume?

Ans
✗ 1. ₹9,146

✗ 2. ₹9,066

✗ 3. ₹9,064

✔ 4. ₹9,164

Question ID : **65497833732**
Status : **Not Answered**
Chosen Option : **--**

Q.5 What is the compound interest (in ₹, nearest to a ₹) on a sum of ₹8,000 for $2\frac{1}{8}$ years at the rate of 16% p.a., interest compounded yearly?

Ans
✗ 1. 2,840

✗ 2. 2,790

✗ 3. 2,765

✔ 4. 2,980

Question ID : **65497833745**
Status : **Not Answered**
Chosen Option : **--**

Q.6 The monthly salaries of an officer and a clerk are in the ratio 11 : 4. If the monthly salary of the officer increases by ₹7,000 and that of the clerk by ₹3,000, then the ratio becomes 19 : 7. What was the initial salary (in ₹) of the officer?

Ans
✔ 1. 88,000

✗ 2. 1,52,000

✗ 3. 56,000

✗ 4. 32,000

Question ID : **65497833725**
Status : **Answered**
Chosen Option : **1**

Q.7 One year ago, the ratio of the ages of A and B was 4 : 3. The ratio of their ages, after 7 years from now, will be 9 : 7. What is the present age (in years) of B?

Ans
✔ 1. 49

✗ 2. 52

✗ 3. 51

✗ 4. 48

Question ID : **65497833744**
Status : **Answered**
Chosen Option : **4**

Q.8 The HCF of 3073, 1756 and 4829 is x. The product of the digits of x is:

Ans   ✗ 1. 96

✗ 2. 72

✗ 3. 81

✓ 4. 108

Question ID : **65497833742**
Status : **Not Answered**
Chosen Option : --

Q.9 Find the compound interest, if ₹3,000 was invested for 3 years at 20% p.a., interest compounded half yearly (nearest to a rupee).

Ans   ✗ 1. ₹2,010

✗ 2. ₹2,301

✗ 3. ₹2,110

✓ 4. ₹2,315

Question ID : **65497833730**
Status : **Not Answered**
Chosen Option : --

Q.10 Aman spends 74% of his income. If his expenditure increases by 30% and savings increase by 25%, then by what percentage will his income increase?

Ans   ✓ 1. 28.7%

✗ 2. 26.8%

✗ 3. 27.8%

✗ 4. 27.2%

Question ID : **65497833743**
Status : **Answered**
Chosen Option : **1**

Q.11 The area (in m^2) of a triangular field, whose sides are 85 m, 85 m and 154 m, is:

Ans   ✗ 1. 2768

✗ 2. 2872

✓ 3. 2772

✗ 4. 2868

Question ID : **65497833746**
Status : **Not Answered**
Chosen Option : --

Q.12 15 boys can complete a work in 10 days and 12 girls can complete the same work in 15 days. If all 15 boys and 12 girls work together, in how many days, will the work get completed?

Ans
✔ 1. 6
✘ 2. 8
✘ 3. 4
✘ 4. 5

Question ID : **65497833739**
Status : **Answered**
Chosen Option : **1**

Q.13 By selling a guitar for ₹846, Rakhi loses 6%. For how much should Rima sell it to gain 8%?

Ans
✘ 1. ₹912
✘ 2. ₹992
✔ 3. ₹972
✘ 4. ₹922

Question ID : **65497833729**
Status : **Answered**
Chosen Option : **3**

Q.14 If the volume of a cube is $192\sqrt{3}$ cubic cm, then the length of its diagonal is:

Ans
✘ 1. 16 cm
✘ 2. 14 cm
✘ 3. 13 cm
✔ 4. 12 cm

Question ID : **65497833728**
Status : **Answered**
Chosen Option : **4**

Q.15 $\left(\frac{1}{4} \times \frac{3}{4} \div 1\frac{1}{4} \text{ of } \frac{2}{5} \right) \div \left(\frac{3}{4} \div 1\frac{2}{3} \text{ of } \frac{4}{5} \right) - \left(\frac{1}{2} - \frac{1}{2} \times \frac{1}{4} \right)$ का मान कितना होगा?

Ans
✔ 1. $\frac{7}{24}$

✘ 2. $\frac{2}{3}$

✘ 3. $\frac{5}{12}$

✘ 4. $\frac{11}{12}$

Question ID : **65497833740**
Status : **Answered**
Chosen Option : **1**

Q.16 The average of six numbers A, B, C, D, E and F is 58. If the first number A is two-fifth of the sum of B and C, and is also equal to three-fourth of the sum of D, E and F, then what is the value of the sum of B and C?

Ans
- ✔ 1. 180
- ✘ 2. 360
- ✘ 3. 116
- ✘ 4. 240

Question ID : 65497833724
Status : **Not Answered**
Chosen Option : **--**

Q.17 Which is the greatest number of seven digits, which when divided by 10, 15, 20, 24 and 30, leaves the remainders 6, 11, 16, 20 and 26, respectively?

Ans
- ✘ 1. 9999960
- ✔ 2. 9999956
- ✘ 3. 9999980
- ✘ 4. 9999976

Question ID : 65497833723
Status : **Answered**
Chosen Option : **2**

Q.18 A can complete a work in 10 days and B can complete it in 15 days. If they work on it together for 5 days, then the fraction of the work left will be:

Ans
- ✔ 1. 1/6
- ✘ 2. 1/2
- ✘ 3. 1/3
- ✘ 4. 1/8

Question ID : 65497833734
Status : **Answered**
Chosen Option : **1**

Q.19 One-third of the goods are sold at 15% profit, 25% of the goods are sold at 20% profit, and the rest of the goods are sold at 10% loss. If a profit of ₹350 is earned in the entire transaction, then the original value of the goods (in ₹) is:

Ans
- ✘ 1. 5,400
- ✘ 2. 7,200
- ✘ 3. 9,000
- ✔ 4. 6,000

Question ID : 65497833747
Status : **Not Answered**
Chosen Option : **--**

Q.20 $12 - [3 + \{4 \text{ of } 2 \div 8 - (8 - 6 \div 3)\}]$ का मान ज्ञात कीजिए।

Ans
 ✗ 1. 20
 ✗ 2. 12
 ✓ 3. 14
 ✗ 4. 10

Question ID : 65497833737
Status : Answered
Chosen Option : 3

Q.21 A man incurred 8% loss by selling a TV for ₹18,400. At what price should the TV be sold to earn 5% profit?

Ans
 ✗ 1. ₹22,500
 ✗ 2. ₹24,000
 ✗ 3. ₹21,725
 ✓ 4. ₹21,000

Question ID : 65497833738
Status : Answered
Chosen Option : 4

Q.22 The distance between two stations A and B is 700 km. A train covers the journey from A to B at a speed of 80 km/h and returns back to A with a uniform speed of 65 km/h. The average speed of train during the whole journey, is closest to:

Ans
 ✗ 1. 74 km/h
 ✓ 2. 71.72 km/h
 ✗ 3. 72.7 km/h
 ✗ 4. 70.73 km/h

Question ID : 65497833731
Status : Answered
Chosen Option : 2

Q.23 A single discount equivalent to three successive discounts i.e. 7%, 12% and 5%, is:

Ans
 ✗ 1. 23%
 ✗ 2. 27.3%
 ✓ 3. 22.252%
 ✗ 4. 22%

Question ID : 65497833736
Status : Answered
Chosen Option : 1

Q.24 A certain sum amounts to ₹12,740 in 4 years and to ₹15,925 in $7\frac{1}{2}$ years at the same rate percentage per annum at simple interest. The sum (in ₹) and the rate percentage per annum, respectively, are:

Ans

✗ 1. ₹7,800; 10%

✔ 2. ₹9,100; 10%

✗ 3. ₹7,800; 7.5%

✗ 4. ₹9,100; 7.5%

Question ID : **65497833726**

Status : **Not Answered**

Chosen Option : **--**

Q.25 A 253 m long train running at a speed of 60 km/h takes 42 seconds to cross a bridge. The length (in m) of the bridge is:

Ans

✔ 1. 447

✗ 2. 435

✗ 3. 443

✗ 4. 427

Question ID : **65497833741**

Status : **Answered**

Chosen Option : **1**