

Quiz Date: 2nd June 2020

Directions (1-5): In the following series find the term which is placed incorrectly.

Q1. 0, 4, 19, 48, 100, 180, 294

- (a) 19
- (b) 100
- (c) 294
- (d) 48
- (e) 180

Q2. 1, 2, 7, 34, 202, 1420

- (a) 7
- (b) 34
- (c) 202
- (d) 2
- (e) 1

Q3. 823, 724, 647, 592, 559, 549

- (a) 549
- (b) 647
- (c) 559
- (d) 592
- (e) 724

Q4. 1, 4, 11, 34, 102, 304, 911

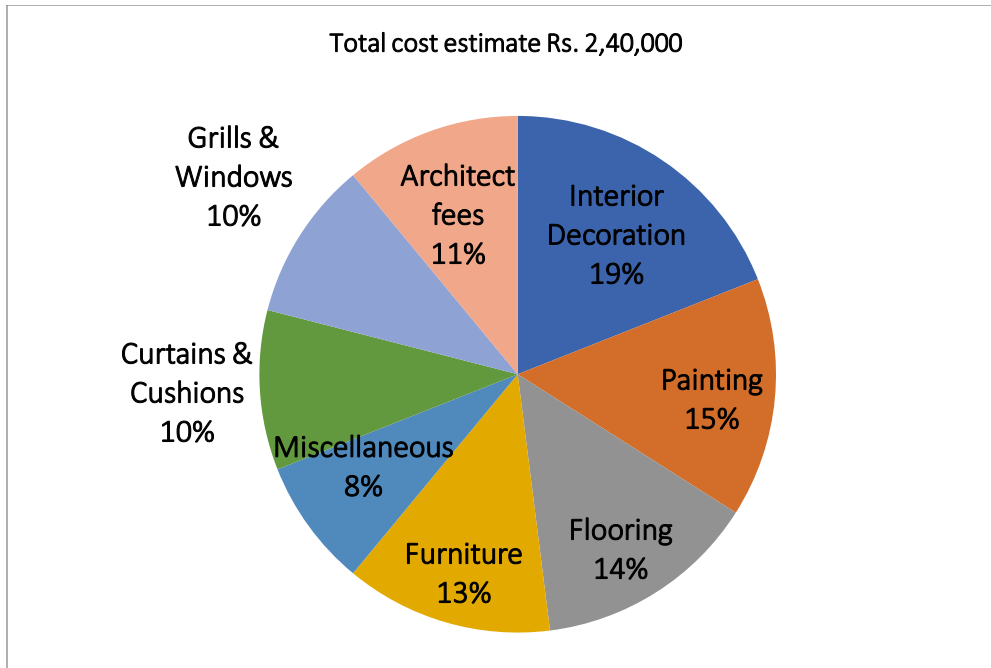
- (a) 11
- (b) 911
- (c) 102
- (d) 34
- (e) 304

Q5. 5, 8, 20, 42, 124, 246, 736

- (a) 20
- (b) 124
- (c) 8
- (d) 42
- (e) 736

Directions (6-10): **Study the following Pie Chart carefully and answer the questions given below.**

Cost estimated by a family in renovation of its house.



Q6. During the process of renovation, the family actually incurs miscellaneous expenditure of Rs. 20,400. The actual miscellaneous expenditure incurred by the family is what percent of the total estimated cost?

- (a) 9.5 %
- (b) 9 %
- (c) 8.5 %
- (d) 10.5 %
- (e) 6.5 %



Q7. Other than getting the discount of 12% on the estimated cost of furniture and the actual miscellaneous expenditure of Rs. 20,400 instead of the estimated, the family's estimated cost is correct. What is the total actual expenditure of the family in renovation of its house (In Rs.)?

- (a) 2,37,456
- (b) 2,31,852
- (c) 2,39,000
- (d) 2,33,000

(e) 3,22,500

Q8. What is the difference in the amount estimated by the family on Interior Decoration and Architect Fees (In Rs.)?

- (a) 20,000
- (b) 19,000
- (c) 14,400
- (d) 18,000
- (e) 19,200

Q9. What is the cost estimated by the family on Painting and Flooring together (In Rs.)?

- (a) 73,000
- (b) 69,600
- (c) 72,000
- (d) 69,000
- (e) 71,000

Q10. The family gets a discount on Furniture and pays 12% less than the estimated cost on Furniture. What is the amount spent on furniture (In Rs.)?

- (a) 26,400
- (b) 29,052
- (c) 27,052
- (d) 27,456
- (e) 25,652

Directions (11-15): Given below is the table showing income, expenditure and profit percentage of company A from 2011-2016.

	Income	Expenditure	Profit%
2011	103.824	—	12%
2012	—	83.8	25%
2013	95.76	84	—
2014	113.28	—	20%
2015	133.1	110	—
2016	121.6	—	—

NOTE: (i) Income and expenditure are in million rupees and

(ii) Percentage increase in profit percent in year 2016 in comparison to previous year is $33\frac{1}{3}\%$.

Q11. Find the expenditure of the company in 2016.

- (a) 94 million
- (b) 95 million
- (c) 99 million
- (d) 81 million
- (e) 78 million

Q12. Expenditure in 2014 is what percent more or less than the expenditure in 2011? (round off to 2 decimal places)

- (a) 1.22% more
- (b) 1.69% less
- (c) 1.83% more
- (d) 1.45% less
- (e) None of these

Q13. What is average expenditure of the company from year 2012 to 2016?

- (a) 93.44 million
- (b) 92.88 million
- (c) 93.98 million
- (d) 94.88 million
- (e) 82.88 million



Q14. Find the approximate profit percent of company till 2014 by taking total expenditure and total income till the end of 2014 together.

- (a) 20 %
- (b) 12 %
- (c) 16 %
- (d) 14 %
- (e) 18 %

Q15. If expenditure was increased by 20% in year 2011 in comparison to previous year, and profit percentage in the previous year was 25% less than the profit percentage in 2011 then find the income in 2010.

- (a) 83.202 million
- (b) 85.6211 million
- (c) 81.243 million

- (d) 84.2025 million
(e) None of these

Solutions

S1. Ans.(a)

Sol.

$$1^3 - 1^2 = 0$$

$$2^3 - 2^2 = 4$$

$$3^3 - 3^2 = 18$$

$$4^3 - 4^2 = 48$$

$$5^3 - 5^2 = 100$$

And so on..

S2. Ans.(c)

Sol.

Series is

$$1 \times 3 - 1 = 2$$

$$2 \times 4 - 1 = 7$$

$$7 \times 5 - 1 = 34$$

$$34 \times 6 - 1 = 203$$

S3. Ans.(a)

Sol.

Series is

$$823 - 99 = 724$$

$$724 - 77 = 647$$

$$647 - 55 = 592$$

$$592 - 33 = 559$$

$$559 - 11 = 548$$

S4. Ans.(c)

Sol.

$$1 \times 3 + 1 = 4$$

$$4 \times 3 - 1 = 11$$

$$11 \times 3 + 1 = 34$$

$$34 \times 3 - 1 = 101...$$

S5. Ans.(a)

Sol.

Series is $\times 2 - 2, \times 3 - 2, \times 2 - 2, \times 3 - 2...$



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S6. Ans.(c)

Sol.

$$\text{Required percentage} = \frac{20400}{240000} \times 100 = 8.5 \%$$

S7. Ans. (a)

Sol.

Estimated miscellaneous cost = 8% of 240000 = Rs 19200

Total expenditure of family = 240000 - 19200 + 20400 - 12% of 13% of 240000 = Rs 2,37,456

S8. Ans. (e)

Sol.

Required difference = (19-11) % of 240000 = Rs 19200



S9. Ans.(b)

Sol.

Requires cost = (15+14) % of 240000 = Rs 69600

S10. Ans.(d)

Sol.

Amount spent on furniture = (100-12) % of 13% of 240000 = Rs 27456

S11. Ans.(b)

Sol.

$$\text{Profit in 2015} = \frac{23.1 \times 100}{110} = 21\%$$

$$\text{In 2016, P \%} = \frac{21 \times 400}{3 \times 100} = 28\%$$

$$\text{So, expenditure} = \frac{121.6 \times 100}{128} = 95 \text{ million}$$

S12. Ans.(c)

Sol.

$$\text{Expenditure in 2014} = \frac{113.28 \times 100}{120} = 94.4 \text{ million}$$

$$\text{Expenditure in 2011} = \frac{103.824 \times 100}{112} = 92.7 \text{ million}$$

$$\text{Required answer} = \frac{94.4 - 92.7}{92.7} \times 100 = 1.83\% \text{ more}$$

S13. Ans.(a)

Sol.

Required average

$$= \frac{83.8 + 84 + 94.4 + 110 + 95}{5} = 93.44 \text{ million}$$

S14. Ans.(e)

Sol.

Total income

$$= 103.824 + 95.76 + 113.28 + 83.8 \times \frac{125}{100} = 417.614 \text{ million}$$

Total expenditure

$$= 92.7 + 83.8 + 84 + 94.4 = 354.9 \text{ million}$$

$$\text{Profit \%} = \frac{417.614 - 354.90}{354.90} \times 100 = 17.67\%$$

S15. Ans.(d)

Sol.

Expenditure in 2011 = 92.7 million

$$\text{So, Expenditure in 2010} = \frac{92.7 \times 100}{120} = 77.25 \text{ million}$$

$$\text{Profit \% in 2010} = \frac{12 \times 75}{100} = 9\%$$

$$\text{Income} = \frac{77.25 \times 109}{100} = 84.2025 \text{ million}$$

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