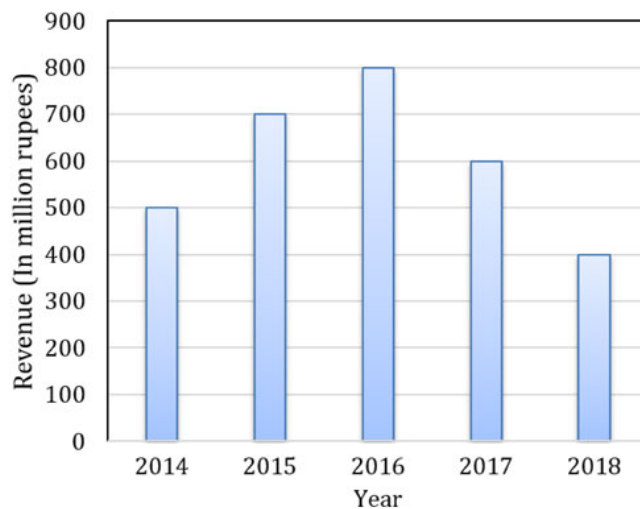


A division of PHIE Learning Center

## GATE Aptitude Practice Questions Profit and Loss

**Q.No. 01** The total revenue of a company during 2014-2018 is shown in the bar graph. If the total expenditure of the company in each year is 500 million rupees, then the aggregate profit or loss (in percentage) on the total expenditure of the company during 2014-2018 is \_\_\_\_.



- (A) 16.67 % profit
- (B) 16.67 % loss
- (C) 20 % profit
- (D) 20 % loss

**Q.No. 02** There are five levels {P, Q, R, S, T} in a linear supply chain before a product reaches customers, as shown in the figure.

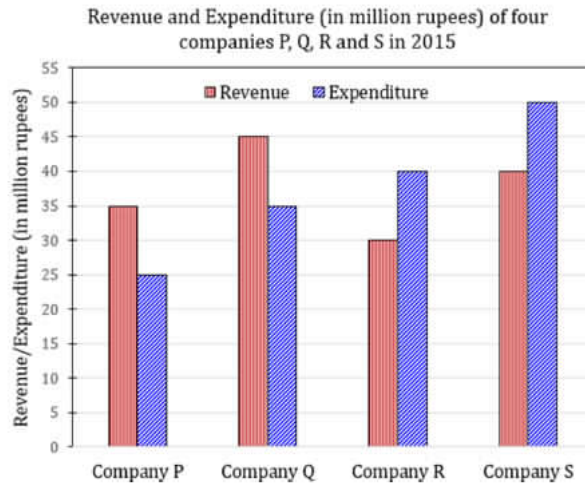


At each of the five levels, the price of the product is increased by 25%. If the product is produced at level P at the cost of Rs. 120 per unit, what is the price paid (in rupees) by the customers?

- (A) 187.50
- (B) 234.38
- (C) 292.96
- (D) 366.21

A division of PhIE Learning Center

- Q.No.03** The revenue and expenditure of four different companies P, Q, R and S in 2015 are shown in the figure. If the revenue of company Q in 2015 was 20% more than that in 2014, and company Q had earned a profit of 10% on expenditure in 2014, then its expenditure (in million rupees) in 2014 was \_\_\_\_\_.



- (A) 32.7  
(B) 33.7  
(C) 34.1  
(D) 35.1

- Q.No. 4** A person divided an amount of Rs. 100,000 into two parts and invested in two different schemes. In one he got 10% profit and in the other he got 12%. If the profit percentages are interchanged with these investments he would have got Rs.120 less. Find the ratio between his investments in the two schemes.

- (A) 9 : 16      (B) 11 : 14      (C) 37 : 63      (D) 47 : 53

- Q.No. 5** A fruit seller sold a basket of fruits at 12.5% loss. Had he sold it for Rs. 108 more, he would have made a 10% gain. What is the loss in Rupees incurred by the fruit seller?

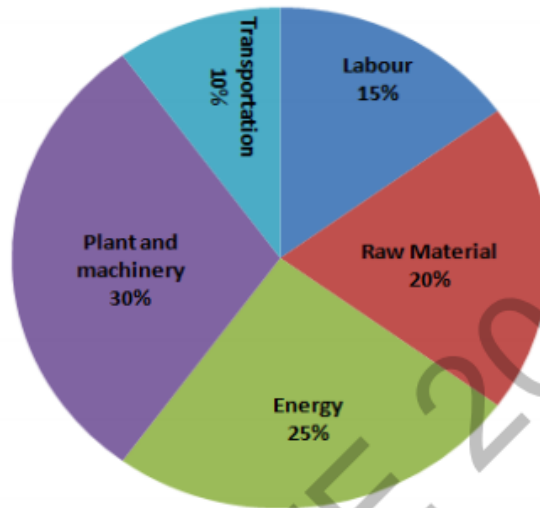
- (A) 48      (B) 52      (C) 60      (D) 108

- Q.No. 6** In manufacturing industries, loss is usually taken to be proportional to the square of the deviation from a target. If the loss is Rs. 4900 for a deviation of 7 units, what would be the loss in Rupees for a deviation of 4 units from the target?

- (A) 400      (B) 1200      (C) 1600      (D) 2800

A division of PhIE Learning Center

- Q.No. 7** A foundry has a fixed daily cost of Rs 50,000 whenever it operates and a variable cost of Rs 800Q, where Q is the daily production in tonnes. What is the cost of production in Rs per tonne for a daily production of 100 tonnes?
- Q.No. 8** Round-trip tickets to a tourist destination are eligible for a discount of 10% on the total fare. In addition, groups of 4 or more get a discount of 5% on the total fare. If the one way single person fare is Rs 100, a group of 5 tourists purchasing round-trip tickets will be charged Rs \_\_\_\_\_.
- Q.No. 9** A firm producing air purifiers sold 200 units in 2012. The following pie chart presents the share of raw material, labour, energy, plant & machinery, and transportation costs in the total manufacturing cost of the firm in 2012. The expenditure on labour in 2012 is Rs. 4,50,000. In 2013, the raw material expenses increased by 30% and all other expenses increased by 20%. If the company registered a profit of Rs. 10 lakhs in 2012, at what price (in Rs.) was each air purifier sold?



- Q.No. 10** A firm is selling its product at Rs. 60 per unit. The total cost of production is Rs. 100 and firm is earning total profit of Rs. 500. Later, the total cost increased by 30%. By what percentage the price should be increased to maintained the same profit level.
- (A) 5                      (B) 10                      (C) 15                      (D) 30
- Q.No. 11** The current erection cost of a structure is Rs. 13,200. If the labour wages per day increase by  $\frac{1}{5}$  of the current wages and the working hours decrease by  $\frac{1}{24}$  of the current period, then the new cost of erection in Rs. is
- (A) 16,500                      (B) 15,180                      (C) 11,000                      (D) 10,120
- Q.No. 12** The cost function for a product in a firm is given by  $5q^2$ , where  $q$  is the amount of production. The firm can sell the product at a market price of ₹ 50 per unit. The number of units to be produced by the firm such that the profit is maximized is
- (A) 5                      (B) 10                      (C) 15                      (D) 25

A division of PhIE Learning Center

Q.No.	Ans.
1	C
2	D
3	C
4	D
5	C
6	C
7	1300
8	850
9	20,000
10	A
11	B
12	A

A division of PhIE Learning Center

### **IGC Live GATE Online Class Room Coaching**

- Live online Classes for all subjects including mathematics and aptitude by subject experts (IIT/IISc Fellow)
- Good Study Material (e-form)
- Topic-wise assignments (e-form)
- 80+ online Exam
- Course completion at-least one in advance of GATE-2021
- Scholarship for GATE Qualified student and Class/Univ. Toppers
- Guaranty of best learning

Details- <https://www.iitiansgateclasses.com/GATE-Online-Coaching.aspx>

### **IGC GATE Distance Learning Program**

- Detailed and well explained subject wise study material (e-form)
- Topic wise assignments and discussion (e-form)
- Weekly online exam (topic wise)
- ALL India GATE online test series
- Complete Guidance for GATE Preparation
- Online doubt clearing sessions

Details- <https://www.iitiansgateclasses.com/Distance-Learning-Program.aspx>

### **IGC GATE Online Test Series**

- IGC provide 80 plus online tests to practice well before appearing for GATE.
- IGC have divided online test series in 4 parts.
  - Topic wise exam
  - Subject wise exam
  - Module wise exam
  - Complete syllabus exam

Details- <https://www.iitiansgateclasses.com/gate-online-test-series.aspx>

**IITians GATE CLASSES: GATE Online AE | ME | ECE | EEE | INE | CSE Coaching Classes**

**Register for demo classes - <https://www.iitiansgateclasses.com/register-for-classes.aspx>**