

## Worksheet: Index Numbers

Odisha State Board · Class 11 · Economics · 3 questions · 13 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 13

**Q1.** Calculate the Simple Aggregative Price Index for the following data (Base year 2020, Current year 2024):

Item A:  $P_0 = 10$ ,  $P_1 = 12$ . Item B:  $P_0 = 20$ ,  $P_1 = 25$ . Item C:  $P_0 = 30$ ,  $P_1 = 36$ . [3 marks]

---

---

---

**Q2.** Calculate Laspeyres and Paasche Price Indexes from the following data: Item A:  $P_0 = 5$ ,  $P_1 = 6$ ,  $Q_0 = 100$ ,  $Q_1 = 90$ .

Item B:  $P_0 = 10$ ,  $P_1 = 12$ ,  $Q_0 = 50$ ,  $Q_1 = 60$ . [4 marks]

---

---

---

**Q3.** Using the data: Item A:  $P_0 = 4$ ,  $P_1 = 5$ ,  $Q_0 = 60$ ,  $Q_1 = 50$ . Item B:  $P_0 = 8$ ,  $P_1 = 10$ ,  $Q_0 = 40$ ,  $Q_1 = 45$ . Item C:  $P_0 = 12$ ,  $P_1 = 15$ ,  $Q_0 = 30$ ,  $Q_1 = 25$ . Calculate (a) Laspeyres Index, (b) Paasche Index, (c) Fisher's Ideal Index. State why Fisher's Index is called 'Ideal'. [6 marks]

---

---

---