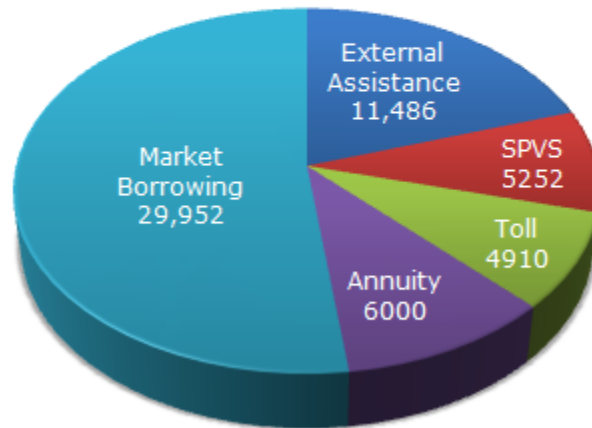


Direction To Solve

The following pie-chart shows the sources of funds to be collected by the National Highways Authority of India (NHAI) for its Phase II projects. Study the pie-chart and answers the question that follow.

Sources of funds to be arranged by NHAI for Phase II projects (in crores Rs.)



1- Near about 20% of the funds are to be arranged through ?

- **A.** SPVS
- **B.** External Assistance
- **C.** Annuity
- **D.** Market Borrowing
- **E.** None of these

Answer & Explanation

Answer - **B** (External Assistance)

Explanation -

Total funds are = Rs. 57600 crores

20% of total funds = Rs. 11520 crores

We can see that External Assistance is Rs. 11486 crores

Which is near to Rs. 11520 crores i.e. 20%

2- If NHAI could receive a total of Rs. 9695 crores as External Assistance, approximately by what percentage it should increase the Market Borrowings to arrange for the shortage of funds ?

- **A.4 %**
- **B.6 %**
- **C.8 %**
- **D.10 %**
- **E.12 %**

Answer & Explanation

Answer - **B** (6 %)

Explanation -

Assuming Rs. 9695 crores from External Assistance

Shortage of funds will be = Rs. 11486 crores - Rs. 9695 crores

= Rs. 1791 crores

Increase required in Market Borrowings = Rs. 1791 crores

Hence % increase will be $(1791 / 29952) \times 100 = 5.98 \%$

Therefore approx % will be 6 %

3- What is the percentage share of Market Borrowing from the total sources of funds ?

- **A.40 %**
- **B.45 %**
- **C.52 %**
- **D.58 %**
- **E.62 %**

Answer & Explanation

Answer - **C** (52 %)

Explanation -

Total sources of funds = Rs. 57600 crores

Share of Market Borrowing = Rs. 29952 crores

Hence 52 % is the correct answer

4- The central angle corresponding to Market Borrowings is ?

- **A.**150.2°
- **B.**140.2°
- **C.**187.2°
- **D.**195.2°
- **E.**225.2°

Answer & Explanation

Answer - **C** (187.2°)

Explanation -

Central angle can be easily find out as under

$$(29952 / 57600) \times 360^\circ = 187.2^\circ$$

5- The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is ?

- **A.**2 : 9
- **B.**1 : 9
- **C.**1 : 6
- **D.**3 : 11
- **E.**2 : 5

Answer & Explanation

Answer - **C** (1 : 6)

Explanation -

$$\text{Required ratio} = (4910 : 29952) = 1 : 6.1 \approx 1 : 6$$