

1.6.1.ಬೆಲೆ ಕಂಡುಹಿಡಿಯಿರಿ:

| ಸಂ.   | ಪ್ರಶ್ನೆ             | ಪರಿಹಾರ  |
|-------|---------------------|---|
| (i)   | $64^{\frac{1}{2}}$  | $= (8 \cdot 8)^{\frac{1}{2}} = 8^{2 \cdot \frac{1}{2}} = 8$   |
| (ii)  | $32^{\frac{1}{5}}$  | $= (2 \cdot 2 \cdot 2 \cdot 2 \cdot 2)^{\frac{1}{5}} = (2^5)^{\frac{1}{5}} = 2^{5 \cdot \frac{1}{5}} = 2$ |
| (iii) | $125^{\frac{1}{3}}$ | $= (5 \cdot 5 \cdot 5)^{\frac{1}{3}} = (5^3)^{\frac{1}{3}} = 5^{3 \cdot \frac{1}{3}} = 5$                 |

1.6.2. ಬೆಲೆ ಕಂಡುಹಿಡಿಯಿರಿ:

| ಸಂ.   | ಪ್ರಶ್ನೆ              | ಪರಿಹಾರ  |
|-------|----------------------|---|
| (i)   | $9^{\frac{3}{2}}$    | $= (3 \cdot 3)^{\frac{3}{2}} = 3^{3 \cdot \frac{3}{2}} = 3^3 = 3 \cdot 3 \cdot 3 = 27$                          |
| (ii)  | $32^{\frac{2}{5}}$   | $= (2 \cdot 2 \cdot 2 \cdot 2 \cdot 2)^{\frac{2}{5}} = (2^5)^{\frac{2}{5}} = 2^{5 \cdot \frac{2}{5}} = 2^2 = 4$ |
| (iii) | $16^{\frac{3}{4}}$   | $= (2^4)^{\frac{3}{4}} = 2^{4 \cdot \frac{3}{4}} = 2^3 = 2 \cdot 2 \cdot 2 = 8$                                 |
| (iv)  | $125^{-\frac{1}{3}}$ | $= (5^3)^{-\frac{1}{3}} = 5^{3 \cdot (-\frac{1}{3})} = 5^{-1} = \left(\frac{1}{5}\right)$                       |

1.6.3. ಸಂಕ್ಷೇಪಿಸಿ:

| ಸಂ.   | ಪ್ರಶ್ನೆ  | ಪರಿಹಾರ   |
|-------|--|--|
| (i)   | $2^{\frac{2}{3}} * 2^{\frac{1}{5}}$                      | $\left(\frac{2}{3}\right) + \left(\frac{1}{5}\right) = \left(\frac{10+3}{15}\right) = \left(\frac{13}{15}\right) \quad \therefore 2^{\frac{2}{3}} * 2^{\frac{1}{5}} = 2^{\frac{13}{15}}$ |
| (ii)  | $\left(\frac{1}{3^3}\right)^7$                           | $= \left(\frac{1^7}{3^{3*7}}\right) = 3^{-21}$   |
| (iii) | $\left(\frac{11^{\frac{1}{2}}}{11^{\frac{1}{4}}}\right)$ | $= 11^{\left(\frac{1}{2}-\frac{1}{4}\right)} = 11^{\frac{1}{4}}$   |
| (iv)  | $7^{\frac{1}{2}} * 8^{\frac{1}{2}}$                      | $= (7*8)^{\frac{1}{2}} = (56)^{\frac{1}{2}}$   |

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