1) जात कीजिए!-

①
$$64^{\frac{1}{2}} = (2 \times 2 \times 2 \times 2 \times 2 \times 2)^{\frac{1}{2}}$$

= $(2^{6})^{\frac{1}{2}}$
= $(2)^{36} \times \frac{1}{2}$

- 23

= 8 \$

(ii)
$$32^{\frac{1}{5}} = (2 \times 2 \times 2 \times 2 \times 2)^{\frac{1}{5}}$$

= $(2^{5})^{\frac{1}{5}}$

= 28x\$

= 2

= 2 9/1

$$(125)^{\frac{1}{3}} = (5\times5\times5)^{\frac{1}{3}}$$

= (53)\$

= (2) 3x =

- 5

- 5 A

(i)
$$(9)^{\frac{3}{2}} = (3 \times 3)^{\frac{3}{2}}$$

$$= (3^{2})^{\frac{3}{2}}$$

$$= (3)^{2} \times 3^{\frac{3}{2}}$$

$$= (3)^{2} \times 3^{\frac{3}{2}}$$

(ii)
$$32^{\frac{2}{5}} = (2x2x2x2x2)^{\frac{2}{5}}$$

= $(2^{5})^{\frac{2}{5}}$

(iii)
$$(16)^{\frac{3}{4}} = (2 \times 2 \times 2 \times 2)^{\frac{3}{4}}$$

 $= (2^{\frac{4}{4}})^{\frac{3}{4}}$
 $= (2)^{\frac{4}{4}} \times \frac{3}{4}$
 $= (2)^{\frac{4}{4}} \times \frac{3}{4}$
 $= 2^{\frac{3}{4}}$
 $= 2^{\frac{3}{4}}$
 $= 2^{\frac{3}{4}}$

$$(125)^{\frac{1}{3}} = 2^{3}$$

$$= 8 \text{ A}$$

$$= (5 \times 5 \times 5)^{\frac{1}{3}}$$

$$= (5 \times 5 \times 5)^{\frac{1}{3}}$$

$$= (5)^{3} \times \frac{1}{3}$$

(i)
$$2^{\frac{2}{3}} \cdot 2^{\frac{1}{5}} = (2)^{\frac{2}{3} + \frac{1}{5}}$$

$$= (2)^{\frac{10+3}{15}}$$

$$= (2)^{\frac{13}{15}}$$

$$(i) \left(\frac{1}{3^3}\right)^{\frac{7}{2}} = (2)^{\frac{13}{15}}$$

$$= (2)^{\frac{13}{15}}$$

$$= (2)^{\frac{13}{15}}$$

$$= (2)^{\frac{13}{15}}$$

$$\frac{11^{\frac{1}{2}}}{11^{\frac{1}{4}}} = (11)^{\frac{1}{2} - \frac{1}{4}}$$

$$= (11)^{\frac{1}{4}}$$

$$= (11)^{\frac{1}{4}}$$

(iv)
$$7^{\frac{1}{2}} \cdot 8^{\frac{1}{2}} = (7 \times 8)^{\frac{1}{2}}$$

= $(56)^{\frac{1}{2}}$

AHICA -