

$$a^m \times a^n = a^{(m+n)}$$

$$(a^m)^n = a^{mn}$$

$$\frac{a^m}{a^n} = a^{(m-n)}$$

$$a^{\frac{m}{n}} = (\sqrt[n]{a})^m$$

$$a^0 = 1$$

Past Paper Indices Type Questions for Intermediate 2
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Q.1 Evaluate

$$243^{\frac{4}{5}}$$

(2 marks)

Q.2 Evaluate

$$27^{\frac{4}{3}}$$

(2 marks)

Q.3 Simplify

$$f^5 \times (f^8)^{-4}$$

(2 marks)

Q.4 Simplify

$$\frac{5g^6 \times 5g^2}{g^{-1}}$$

(3 marks)

Q.5 Express in its simplest form.

$$q^{1/4} (q^{1/2} - q^{-1/2})$$

(2 marks)

Q.6 Simplify

$$\frac{w^{1/7} \times w^{3/7}}{w}$$

(2 marks)

Q.7 Express the fraction in its simplest form.

$$\frac{i}{y} \times \frac{5y}{i^3}$$

(2 marks)