

**Indices Past Paper Questions Edexcel – None Calculator**

1.

(a) Simplify  $p^3 \times p^5$

.....  
(1)

(b) Simplify  $\frac{h^7}{h^2}$

.....  
(1)

(c) Simplify  $(x^2)^3$

.....  
(1)

(Total for Question 8 is 3 marks)

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2.

(a) Write down the value of  $10^{-1}$

.....  
(1)

(b) Find the value of  $27^{\frac{2}{3}}$

.....  
(2)

(c) Write  $\sqrt{75}$  in the form  $k\sqrt{3}$ , where  $k$  is an integer.

.....  
(2)

**3.**

(a) Simplify  $x^2 \times x^4$

.....  
(1)

(b) Simplify  $y^8 \div y^6$

.....  
(1)

(c) Simplify  $(t^2)^3$

.....  
(1)

**4.**

(a) Write down the value of  $6^0$

.....  
(1)

(b) Work out  $64^{\frac{2}{3}}$

.....  
(2)

**5.**

(a) Simplify  $a^4 \times a^3$

.....  
(1)

(b) Simplify  $(b^2)^7$

.....  
(1)

(c) Write down the value of  $3^0$

.....  
(1)

(d) Write down the value of  $4^{-1}$

.....  
(1)

**6.**

Write down the value of

(i)  $7^0$

(ii)  $5^{-1}$

(iii)  $9^{\frac{1}{2}}$

.....  
.....  
.....

7.

(a) Find the value of  $5^0$

.....  
(1)

(b) Find the value of  $27^{\frac{1}{3}}$

.....  
(1)

(c) Find the value of  $2^{-3}$

.....  
(1)

8.

(c) Simplify  $t^4 \times t^7$

.....  
(1)

(d) Simplify  $y^6 \div y^2$

.....  
(1)

(e) Simplify  $(c^3)^4$

.....  
(1)

.....  
(1)

**9.**

(a) Simplify  $m^0$

.....  
(1)

(b) Simplify  $(2x^6y^{-1})^3$

.....  
(2)

**10.**

Write down the value of

(i)  $4^{-2}$

(ii)  $64^{\frac{1}{3}}$

.....

.....

**11.**

Find the value of

(i)  $8^0$

(ii)  $\left(\frac{1}{3}\right)^{-2}$

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

.....

.....

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