

BAHAGIAN/SECTION A

Arahan: Jawab semua soalan.
Instruction: Answer all questions.

1 Cari nilai bagi 2^5 .

1.1 Find the value of 2^5 .

- A 10 C 32
B 25 D 50

2 Cari nilai bagi $b \times b \times b$.

1.1 Find the value of $b \times b \times b$.

- A $3b$ C $3b^3$
B b^3 D $3b^{-3}$

3 Cari nilai bagi $(2a^3)^3$.

1.2 Find the value of $(2a^3)^3$.

- A $2a^6$ C $8a^6$
B $2a^9$ D $8a^9$

4 Permudahkan $a^3 \times a$.

1.2 Simplify $a^3 \times a$.

- A a^2 C $2a^3$
B a^4 D $2a^4$

5 Cari nilai bagi $\frac{1}{x^5}$.

1.2 Find the value of $\frac{1}{x^5}$.

- A $\sqrt{x}$ C x^5
B x^{-5} D $\sqrt{x^5}$

6 Permudahkan $20n^2 \div 5n^0$.

1.2 Simplify $20n^2 \div 5n^0$.

- A $4n^2$ C $4n$
B $4n^0$ D $4n^{-2}$

7 Cari nilai bagi $8^{\frac{2}{3}}$.

1.2 Find the value of $8^{\frac{2}{3}}$.

- A 6
B 4
C $\sqrt{24}$
D $\sqrt[3]{16}$

8 Cari nilai bagi $\frac{8^2}{8}$.

1.2 Find the value of $\frac{8^2}{8}$.

- A 1 C 64
B 8 D 512

9 $36^{-\frac{1}{2}} =$

1.2 A $\frac{1}{36^{\frac{1}{2}}}$

B $-\frac{1}{36^{\frac{1}{2}}}$

C $-\frac{1}{36^2}$

D $\frac{1}{36^2}$

10 $m^{\frac{2}{5}}$ boleh ditulis sebagai

1.2 _____

$m^{\frac{2}{5}}$ can be written as _____

A $\sqrt[5]{m^{-2}}$

B $\sqrt[5]{m^2}$

C $\frac{1}{\sqrt[5]{m^{-2}}}$

D $\frac{1}{\sqrt[5]{m^2}}$

11 Jika $a^6 \times a^x = a^{-7}$, tentukan nilai x .

1.2 If $a^6 \times a^x = a^{-7}$, determine the value of x .

- A -13 C 1
B -1 D 13

12 Permudahkan:

1.2 Simplify:

$$20a^{16} \div 2a^8$$

- A $20a^2$ C $10a^2$
B $20a^8$ D $10a^8$

13 Permudahkan:

1.2 Simplify:

$$(-5p^2rs^2)^3$$

- A $-5p^2rs^5$ C $-125p^5rs^5$
B $-5p^6rs^6$ D $-125p^6r^3s^6$

14 Permudahkan:

1.2 Simplify:

$$\left(\frac{3}{4^2}\right)^3$$

- A $\left(\frac{3}{1\ 024}\right)$ C $\left(\frac{9}{4\ 096}\right)$
B $\left(\frac{27}{1\ 024}\right)$ D $\left(\frac{27}{4\ 096}\right)$

15 Ringkaskan:

1.2 Simplify:

$$\left(\frac{3h^3}{h^2}\right)^2 \div h^2$$

- A 9 C $3h^2$
B $9h$ D $9h^2$

16 Cari nilai bagi $\left(\frac{9}{9^2}\right)^{\frac{1}{2}}$.

1.2 Find the value of $\left(\frac{9}{9^2}\right)^{\frac{1}{2}}$.

- A 1 C $\frac{1}{3}$
B 3 D $\frac{1}{9}$

17 Permudahkan:

1.2 Simplify:

$$v^7 \div v^{-7}$$

- A v C v^7
B v^0 D v^{14}

18 Tentukan nilai x bagi

1.2 persamaan yang berikut.
Determine the value of x for the following equation.

$$a^x \times a^2 \times a^1 = a^5$$

- A 1 C 3
B 2 D 5

19 $25^{\frac{3}{2}} = \sqrt{a^c}$

1.2 A $a = 25, b = 3, c = 2$

B $a = 25, b = 2, c = 3$

C $a = 2, b = 25, c = 3$

D $a = 3, b = 25, c = 2$

BAHAGIAN/ SECTION B

Arahan: Jawab semua soalan.

Instruction: Answer all questions.

20 (a) Bulatkan jawapan yang betul.

1.2 Circle the correct answers.

Modul
Hebat
Gangsa

Jawapan/Answer:

[3 markah/marks]

	Jawapan Answer		
$3m^4 \times 4m^5 =$	$12m^{20}$	$12m^9$	$12m$
$p^{16} \div p^7 =$	p^1	p^3	p^9
$\frac{q^7 r^2}{q^5 r^4} =$	$q^2 r^{-2}$	$q^2 r^2$	$q^{-2} r^2$

(b) Lengkapkan jadual di bawah.

1.2 Complete the table below.

Modul
Hebat
Perak

Jawapan/Answer:

Nombor dalam tatatanda indeks Number in index notation	Asas Base	Indeks Index
$(-0.7)^3$		

[1 markah/mark]

21 (a) Padankan setiap yang berikut dengan jawapan yang betul.

1.2 Match each of the following with the correct answer.

Modul
Hebat
Perak

Jawapan/Answer:

[2 markah/marks]

$64^{\frac{3}{2}}$ ●	$(\sqrt[5]{243})^4$ ●
$243^{\frac{4}{5}}$ ●	$(\sqrt[3]{64})^2$ ●
	$(\sqrt[4]{243})^5$ ●
	$(\sqrt[2]{64})^3$ ●

(b) Tentukan nilai bagi x dalam persamaan yang berikut.

1.2 Determine the values of x in the following equations.

[2 markah/marks]

Modul
Hebat
Gungai

Jawapan/Answer:

$s^5 \times s^0 \times s = s^x$	$x = \underline{\hspace{2cm}}$
$(-1^2)^{15} = -1^x$	$x = \underline{\hspace{2cm}}$

22 (a) Tentukan sama ada persamaan berikut adalah **Benar** atau **Palsu**.

1.2 Determine whether the following equations are **True** or **False**.

[2 markah/marks]

Modul
Hebat
Gongoh

Jawapan/Answer:

Persamaan Equation	Benar atau Palsu True or False
$(2^5)^2 = (4^2)^3$	
$(5^4)^3 = (125^2)^2$	

(b) Isikan jawapan yang betul dalam kotak di bawah.

1.2 Fill in the correct answers in the boxes below.

[2 markah/marks]

Modul
Hebat
Perak

Jawapan/Answer:

