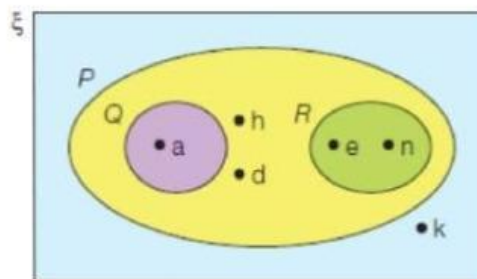


1. If set $P = \{a, b, c, d\}$, then the number of subsets of set P is
Jika set $P = \{a, b, c, d\}$, maka bilangan subset bagi set P ialah

- ☐ A 14
☐ B 15
☐ C 16
☐ D 17

2.



State set R'
Nyatakan set R' .

- ☐ A $\{e, n\}$
☐ B $\{k\}$
☐ C $\{e, n, h, d\}$
☐ D $\{a, h, d, k\}$

3. Given the universal set, $\xi = \{x : 25 \leq x \leq 35, x \text{ is an integer}\}$ and set $P = \{x : x \text{ is a number such that the product of its digits is an odd number}\}$.
Find set P' .

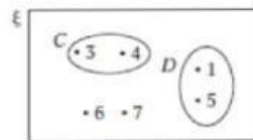
Diberi set semesta, $\xi = \{x : 25 \leq x \leq 35, x \text{ ialah integer}\}$ dan set $P = \{x : x \text{ ialah suatu nombor dengan keadaan hasil darab digit-digitnya ialah nombor ganjil}\}$.
Cari set P' .

- ☐ A $\{25, 26, 27, 28, 30\}$
☐ B $\{31, 32, 33, 34, 35\}$
☐ C $\{25, 26, 27, 28, 29, 30, 32, 34\}$
☐ D $\{27, 28, 29, 30, 31, 33, 34, 35\}$

4. Given $P = \{x : x \text{ is a prime number and } 1 \leq x \leq 10\}$. Which of the following is **not** true?
Diberi $P = \{x : x \text{ ialah nombor perdana dan } 1 \leq x \leq 10\}$. Antara berikut, yang manakah **tidak** benar?

- ☐ A $1 \in P$
☐ B $2 \in P$
☐ C $5 \in P$
☐ D $7 \in P$

5. The Venn diagram shows all the elements of the universal set, ξ , set C and set D.
 Gambarajah Venn di bawah menunjukkan semua unsur bagi set semesta, ξ , set C dan set D.



Which of the following is true?
 Antara berikut, yang manakah benar?

- ☐ A $C \subset D$
☐ B $C \subset D'$
☐ C $\{6, 7\} \subset C$
☐ D $C' = \{1, 5\}$

6. Given the universal set, $\xi = \{x : 1 \leq x \leq 8, x \text{ is an integer}\}$ and set $M = \{x : x \text{ is a factor of } 6\}$.
 List all the elements of set M' .
 Diberi set semesta, $\xi = \{x : 1 \leq x \leq 8, x \text{ ialah integer}\}$ dan set $M = \{x : x \text{ ialah faktor bagi } 6\}$.
 Senaraikan semua unsur bagi set M' .

- ☐ A $\{1, 2, 3, 6\}$
☐ B $\{2, 4, 6, 8\}$
☐ C $\{4, 5, 7, 8\}$
☐ D $\{1, 3, 5, 6, 7\}$

7. Given that the universal set, $\xi = \{x : 31 < x < 40, x \text{ is an integer}\}$ and set $P = \{x : x \text{ is a number such that the product of its two digits is an even number}\}$.
 Find set P' .
 Diberi bahawa set semesta, $\xi = \{x : 31 < x < 40, x \text{ ialah integer}\}$ dan set $P = \{x : x \text{ ialah nombor dengan keadaan hasil darab dua digitnya ialah nombor genap}\}$.
 Cari set P' .

- ☐ A $\{32, 34, 36, 38\}$
☐ B $\{31, 33, 35, 37\}$
☐ C $\{33, 35, 37, 39\}$
☐ D $\{31, 33, 35, 37, 39\}$

8. List all the subsets of set $P = \{0, 2\}$.
 Senaraikan semua subset bagi set $P = \{0, 2\}$.

- ☐ A $\{ \}, \{2\}$
☐ B $\{ \}, \{0\}, \{2\}$
☐ C $\{0\}, \{2\}, \{0, 2\}$
☐ D $\{ \}, \{0\}, \{2\}, \{0, 2\}$

9. List all the subsets of set $P = \{3, 7\}$.
 Senaraikan semua subset bagi set $P = \{3, 7\}$.

- ☐ A $\{3\}, \{7\}, \{3, 7\}$
☐ B $\emptyset, \{3\}, \{7\}$
☐ C $\emptyset, \{3, 7\}$
☐ D $\emptyset, \{3\}, \{7\}, \{3, 7\}$

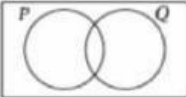
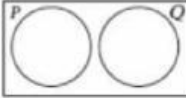
10. Which of the following is true?
Antara berikut, yang manakah benar?

- ☐ A $\text{Ipoh} \in \{\text{states of Malaysia}\}$
 $\text{Ipoh} \in \{\text{negeri Malaysia}\}$
- ☐ B $9 \in \{\text{prime numbers}\}$
 $9 \in \{\text{nombor perdana}\}$
- ☐ C $\text{parallelogram} \in \{\text{quadrilaterals}\}$
 $\text{segi empat selari} \in \{\text{sisi empat}\}$
- ☐ D $7 \in \{\text{multiples of 14}\}$
 $7 \in \{\text{gandaan 14}\}$

11. It is given that the universal set, $\xi = \{x : 8 \leq x < 16, x \text{ is an integer}\}$ and set $M = \{x : x \text{ is a multiple of 4}\}$. List all the elements of set M' .
Diberi bahawa set semesta, $\xi = \{x : 8 \leq x < 16, x \text{ ialah integer}\}$ dan set $M = \{x : x \text{ ialah gandaan 4}\}$. Senaraikan semua unsur bagi set M' .

- ☐ A $\{8, 12\}$
- ☐ B $\{8, 12, 16\}$
- ☐ C $\{9, 10, 11, 13, 15\}$
- ☐ D $\{9, 10, 11, 13, 14, 15\}$

12. Given the universal set, $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, set $P = \{\text{even numbers}\}$ and set $Q = \{4, 8\}$. Which of the following Venn diagrams represents the relationship between ξ , set P and set Q ?
Diberi set semesta, $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, set $P = \{\text{nombor genap}\}$ dan set $Q = \{4, 8\}$. Antara gambar rajah Venn berikut, yang manakah mewakili hubungan antara ξ , set P dan set Q ?

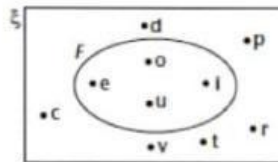
- ☐ A 
- ☐ B 
- ☐ C 
- ☐ D 

13. $T = \{x : x \text{ is an integer and } -10 < x < 9\}$
 $T = \{x : x \text{ ialah integer dan } -10 < x < 9\}$

State $n(T)$.
Nyatakan $n(T)$.

- ☐ A 16
- ☐ B 17
- ☐ C 18
- ☐ D 19

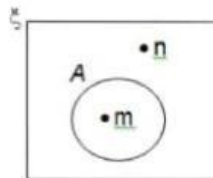
14. The Venn diagram shows the universal set, ξ and set F .
 Gambarajah Venn di bawah menunjukkan set semesta, ξ dan set F .



Find $n(F)$.
 Cari $n(F)$.

- ☐ A 4
☐ B 6
☐ C 8
☐ D 10

15. The Venn diagram shows the universal set, ξ and set A .
 Gambarajah Venn di bawah menunjukkan set semesta, ξ dan set A .



List all the subsets of A .
 Senaraikan semua subset bagi A .

- ☐ A $\{m\}$
☐ B $\{m\}, \{n\}$
☐ C $\{ \}, \{m\}$
☐ D $\{ \}, \{m\}, \{n\}, \{m, n\}$

16. $K = \{\text{Prime numbers that are less than 20}\}$
 $K = \{\text{Nombor perdana yang kurang daripada 20}\}$

List the elements of K .
 Senaraikan unsur K .

- ☐ A $\{1, 2, 3, 5, 7, 9, 11, 13, 15, 17, 19\}$
☐ B $\{1, 2, 3, 5, 7, 11, 13, 15, 17, 19\}$
☐ C $\{2, 3, 5, 7, 11, 13, 15, 17, 19\}$
☐ D $\{2, 3, 5, 7, 11, 13, 17, 19\}$

17. List all the subsets of set $Y = \{p, q\}$.
 Senaraikan semua subset bagi set $Y = \{p, q\}$.

- ☐ A $\{p\}, \{q\}$
☐ B $\{p\}, \{q\}, \{p, q\}$
☐ C $\{ \}, \{p\}, \{q\}$
☐ D $\{ \}, \{p\}, \{q\}, \{p, q\}$

18. Given $P = \{3, 5, 6, 7, 8, 10\}$, then one of the subsets of P is
Diberi $P = \{3, 5, 6, 7, 8, 10\}$, maka salah satu subset bagi P ialah

- ☐ A $\{2, 3, 5, 6\}$
☐ B $\{5, 6, 7, 8\}$
☐ C $\{2, 3, 5, 6, 7\}$
☐ D $\{5, 6, 7, 8, 9\}$

19. Given the universal set, $\xi = \{x : 30 < x < 45, x \text{ is an integer}\}$ and set $V = \{x : x \text{ is a number such that the sum of its digits is an odd number}\}$.
Find $n(V')$.
Diberi set semesta, $\xi = \{x : 30 < x < 45, x \text{ ialah integer}\}$ dan set $V = \{x : x \text{ ialah nombor dengan keadaan hasil tambah digit-digitnya ialah nombor ganjil}\}$.
Cari $n(V')$.

- ☐ A 6
☐ B 8
☐ C 12
☐ D 14

20. Given $W = \{\text{prime factors of } 42\}$, list all the elements of W .
Diberi $W = \{\text{faktor perdana bagi } 42\}$, senaraikan semua unsur bagi W .

- ☐ A $\{3, 7\}$
☐ B $\{2, 3, 7\}$
☐ C $\{2, 3, 7, 21\}$
☐ D $\{2, 3, 6, 7, 14, 21\}$