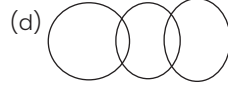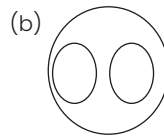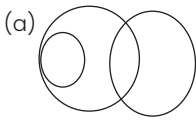# 8 LOGICAL VENN DIAGRAMS

EXERCISE 8B

For SSC CHSL Exam

Direction: Select the Venn diagram that best illustrates the relationship between the following classes.
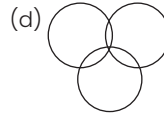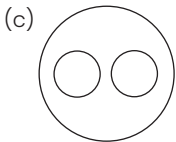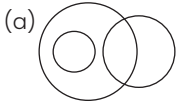
1. Lawyers, Architects, Human Beings
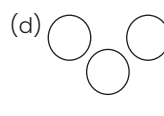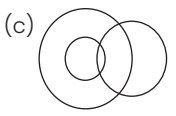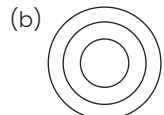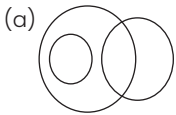
   SSC CHSL 11/07/2019 (Shift-3)

   (a) (b)

   (c) (d)

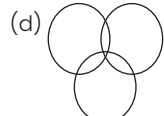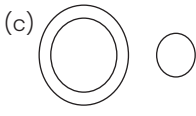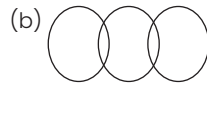2. Ants, Butterflies, Insects **SSC CHSL 11/07/2019 (Shift-2)**

   (a) (b)

   (c) (d)

3. Wools, Wood, Leather **SSC CHSL 10/07/2019 (Shift-3)**

   (a) (b)

   (c) (d)

4. Flower, Roses, Yellow **SSC CHSL 10/07/2019 (Shift-2)**

   (a) (b)

   (c) (d)
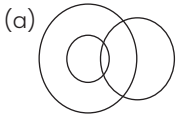
5. Pi, Theta, Symbols **SSC CHSL 10/07/2019 (Shift-1)**

   (a) (b)
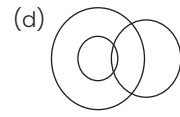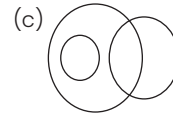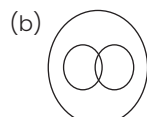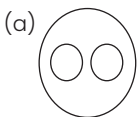
6. Heart, Body, House **SSC CHSL 09/07/2019 (Shift-2)**

   (c) (d)

   (a) (b)

   (c) (d)
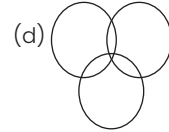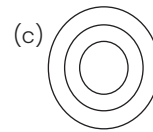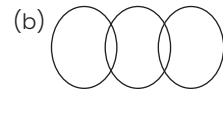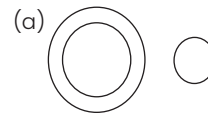
7. Engineers, Graduates, Males **SSC CHSL 09/07/2019 (Shift-1)**

   (a) (b)

   (c) (d)
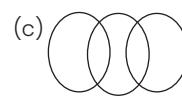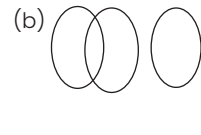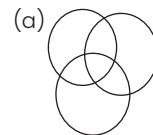
8. Food, Lentils, Pulses **SSC CHSL 08/07/2019 (Shift-3)**

   (a) (b)

   (c) (d)
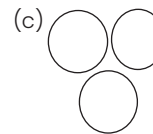
9. Mobile phones, Electronic devices, Laptops

   SSC CHSL 08/07/2019 (Shift-1)

   (a) (b)

   (c) (d)
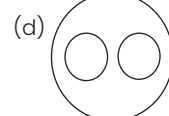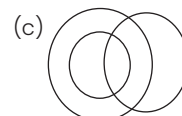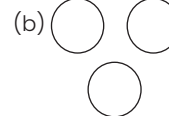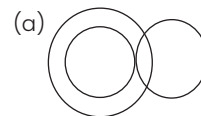
10. Metal, Iron, Mercury   **SSC CHSL 05/07/2019 (Shift-3)**
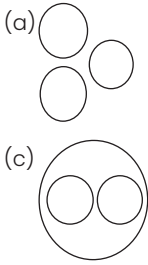
(a)

(b)

(c)

(d)
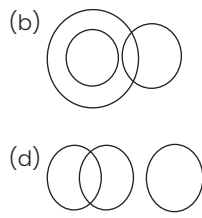
11. Mango, Eatables, Liquid   **SSC CHSL 05/07/2019 (Shift-2)**
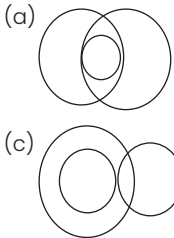
(a)

(b)

(c)

(d)
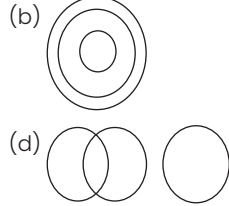
12. Fuel, Diesel, Liquid   **SSC CHSL 05/07/2019 (Shift-1)**
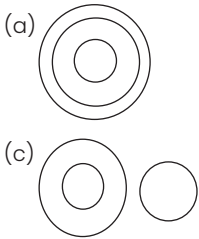
(a)

(b)

(c)

(d)
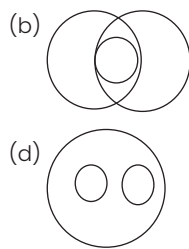
13. Moon, Venus, Universe   **SSC CHSL 04/07/2019 (Shift-3)**
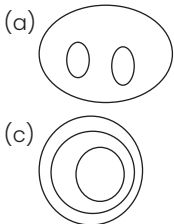
(a)

(b)

(c)

(d)
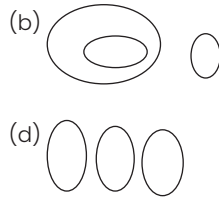
14. Sikkim, Manipal, Imphal   **SSC CHSL 04/07/2019 (Shift-2)**
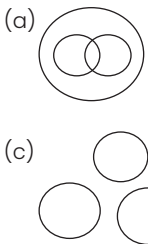
(a)

(b)

(c)

(d)
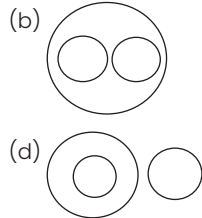
15. Cucumber, Spices, Food   **SSC CHSL 04/07/2019 (Shift-1)**
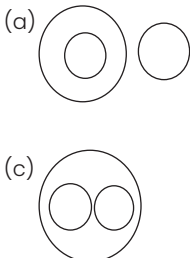
(a)

(b)

(c)

(d)
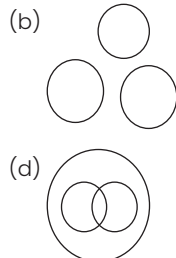
16. Women, Sisters, mothers   **SSC CHSL 03/07/2019 (Shift-3)**
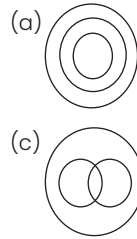
(a)

(b)

(c)

(d)
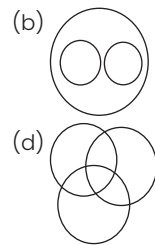
17. Mens, Players, Fathers   **SSC CHSL 03/07/2019 (Shift-2)**
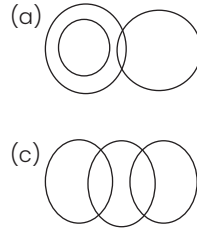
(a)

(b)

(c)

(d)

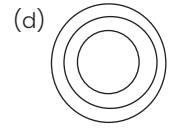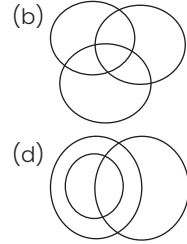18. Lecturers, Singers, Men   **SSC CHSL 03/07/2019 (Shift-1)**
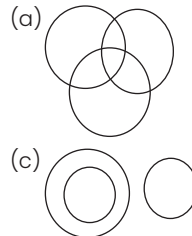
(a)

(b)

(c)

(d)
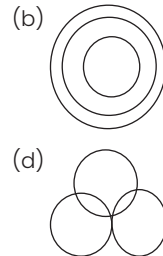
19. Nurses, Doctors, Pharmacists   **SSC CHSL 02/07/2019 (Shift-3)**
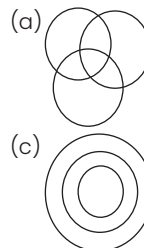
(a)

(b)

(c)

(d)
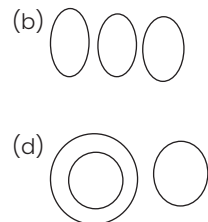
20. Mothers, Women, Pilots   **SSC CHSL 02/07/2019 (Shift-2)**
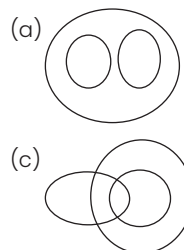
(a)

(b)

(c)

(d)
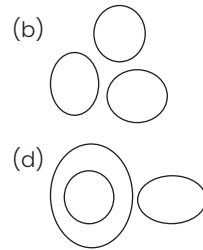
21. Raw Material, Labourers, Machines
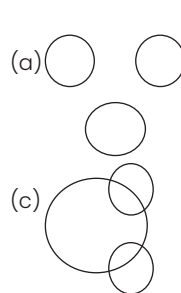
SSC CHSL 02/07/2019 (Shift-1)

(a)

(b)

(c)

(d)
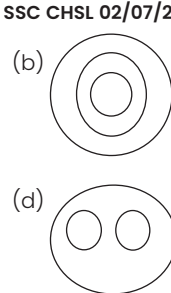
22. Laziness, Tension, Power   **SSC CHSL 01/07/2019 (Shift–3)**   (c)   (d)
(a)   (b)

SOLUTION
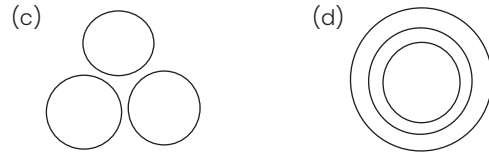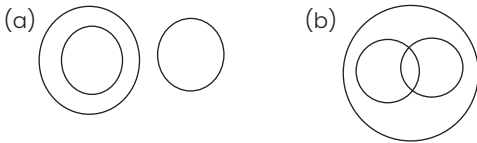
Hence, option (a) is correct.

1. (b) According to the question,
Lawyers, Architects, Human Beings

Lawyers,
Architects,
Human Beings
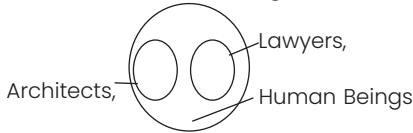
Hence, option (b) is correct.

2. (c) According to the question,
Ants, Butterfly, Insects

Insects
Ants
Butterfly
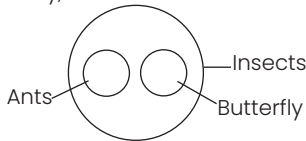
Ants and Butterfly are in the category of insects.
Hence, option (c) is correct.

3. (d) According to the question,
Wools, Wood, Leather
No relation between each other
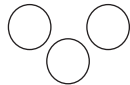
Hence, option (d) is correct.

4. (a) According to the question,
Flower, Rose, Yellow
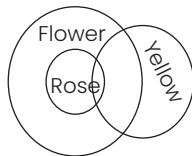
Flower
Rose
Yellow

Roses are flowers and some flowers and roses can be yellow.
Hence, option (a) is correct.

5. (a) According to the question,
Pi, Theta, Symbols
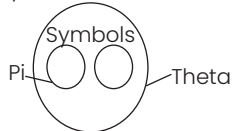
Symbols
Pi
Theta

Pi and Theta are mathematical symbols.
Hence, option (a) is correct.

6. (a) According to the question,
Heart, Body, House

Heart
Body
House
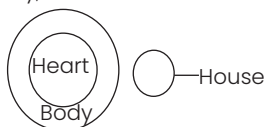
7. (a) According to the question,
Graduates, Engineers, Males

Males
Engineers
Graduates
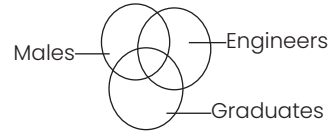
Some males are engineers as well as graduates.

8. (d) According to the question,
Lentils, Pulses, Food

Food
Lentils
Pulses
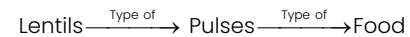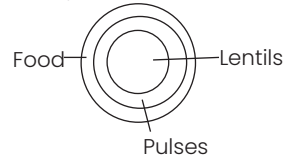
Lentils $\xrightarrow{\text{Type of}}$ Pulses $\xrightarrow{\text{Type of}}$ Food
Hence, option (d) is correct.

9. (d) According to the question,
Mobile phones, Electronic devices, Laptops

Laptops
Mobile phones
Electrical devices
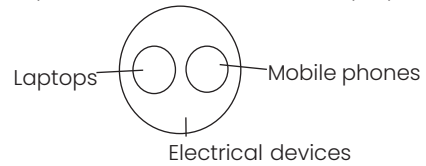
Laptops and Mobile phones are electronic devices.
Hence, option (d) is correct.

10. (c) According to the question,
Metal, Iron, Mercury

Mercury
Iron
Metals
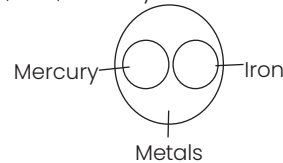
Mercury and Iron are metals.
Hence, option (c) is correct.

11. (c) According to the question,
Mango, Eatables, Liquid

Eatables
Liquid
Mango
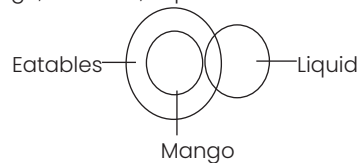
All mangoes are eatable and some liquids are eatable.
Hence, option (c) is correct.

12. (b) According to the question,
Fuel, Diesel, Liquid

Liquid — Fuel
Diesel
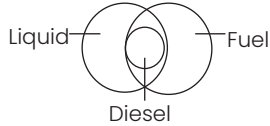
Hence, option (b) is correct.

13. (a) According to the question,
Moon, Venus, Universe

Venus — Universe
Moon
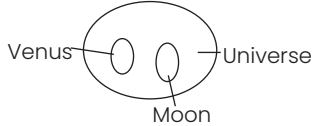
Venus and Moon are situated in Universe.
Hence, option (a) is correct.

14. (d) According to the question,
Sikkim, Manipur, Imphal.

Imphal — Sikkim
Manipur
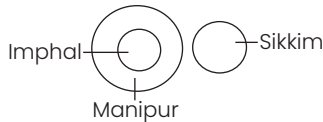
Sikkim and Manipur are states and Imphal is the capital of Manipur.
Hence, option (d) is correct.

15. (c) According to the question,
Cucumber, Spices, Food

Food
Cucumber — Spices
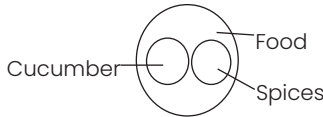
Cucumber and Spices are a part of food.
Hence, option (c) is correct.

16. (c) According to the question,
Women, Sisters, Mothers

Sisters — Mothers
Women
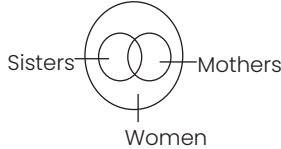
Hence, option (c) is correct.

17. (d) According to the question,
Men, Players, Fathers

Men — Players
Fathers
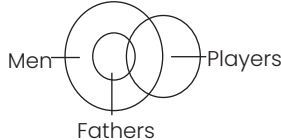
All fathers are men.
Some fathers and men can be players.
Hence, option (d) is correct.

18. (a) According to the question,
Lecturers, Singers, Men

Singer
Lecturers — Men
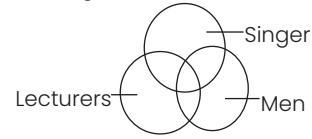
Hence, option (a) is correct.

19. (b) According to the question,
Nurses, Doctors, Pharmacists

Doctors — Nurses
Pharmacists

No relation between Pharmacists, Doctors and Nurses.
Hence, option (b) is correct.

20. (c) According to the question,
Mothers, Women, Pilots

Pilots — Women
Mothers
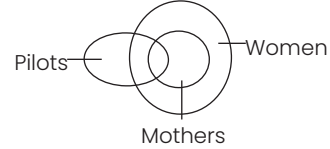
Hence, option (c) is correct.

21. (a) According to the question,
Raw Materials, Labourers, Machines

Raw Materials — Labourers
Machines
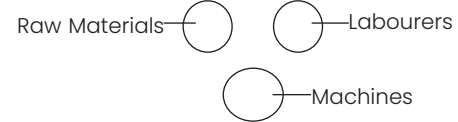
No relation between each other.
Hence, option (a) is correct.

22. (c) According to the question,
Laziness, Tension, Power

Laziness
Power — Tension
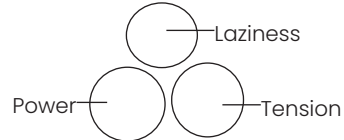
Power, Tension, Laziness are different human feelings
Hence, option (c) is correct.

EXERCISE 8C

For SSC CGL and CPO Exam

Direction (1 to 11): Choose the Venn diagram which best illustrates the relationship among the three given classes:

1. Fruit, Vegetable, Apple   **SSC CGL 13/06/2019 (Shift-3)**

(a)

(b)

(c)

(d)
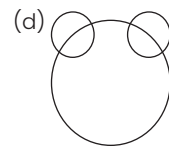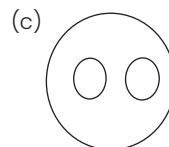
2. Indians, Females, Voters **SSC CGL 10/06/2019 (Shift-1)**
    (a)   (b)
    (c)   (d)
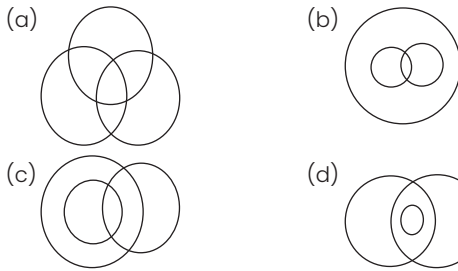
3. Villagers, Poor Persons, Males **SSC CGL 07/06/2019(Shift-3)**
    (a)   (b)
    (c)   (d)
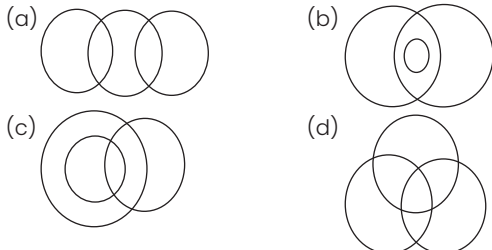
4. Graduates, Teachers, Literates **SSC CGL 07/06/2019(Shift-2)**
    (a)   (b)
    (c)   (d)
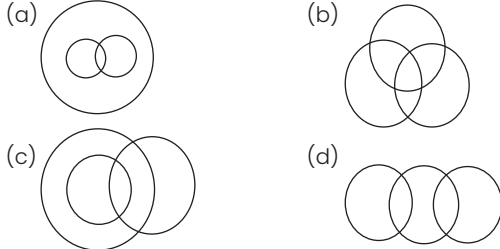
5. Crocodiles, Aquatic animals, Reptiles
                SSC CGL 07/06/2019 (Shift-1)
    (a)   (b)
    (c)   (d)
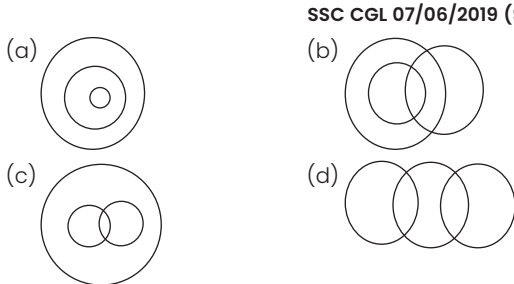
6. Women, Entrepreneurs, Engineers
                SSC CGL 06/06/2019(Shift-3)
    (a)   (b)
    (c)   (d)
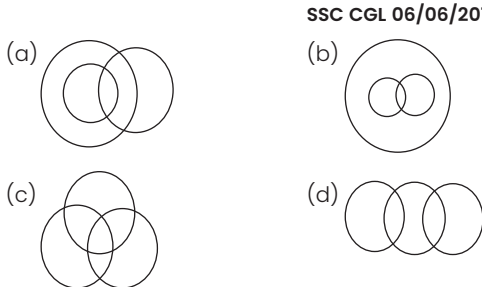
7. Doctors, Salaried Persons, Parents
                SSC CGL 06/06/2019 (Shift-2)
    (a)   (b)

    (c)   (d)
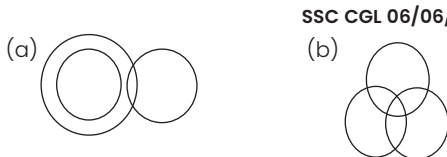
8. Snakes, Reptiles, Poisonous **SSC CGL 06/06/2019 (Shift-1)**
    (a)   (b)
    (c)   (d)
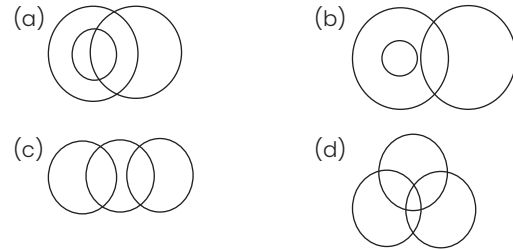
9. Graduates, Literates and Hardworking
                SSC CGL 04/06/2019 (Shift-3)
    (a)   (b)
    (c)   (d)
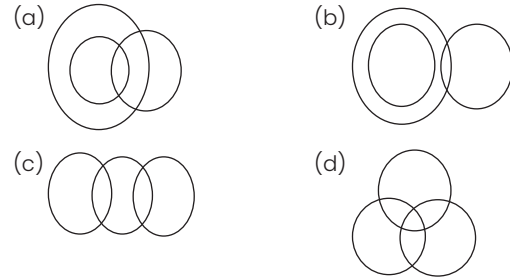
10. Parents, Rich Persons, Farmers
                SSC CGL 04/06/2019 (Shift-2)
    (a)   (b)
    (c)   (d)
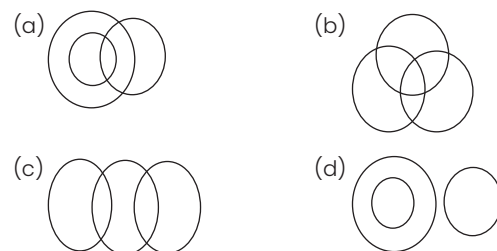
11. Uncle, Relatives, Rich **SSC CGL 04/06/2019 (Shift-1)**
    (a)   (b)
    (c)   (d)
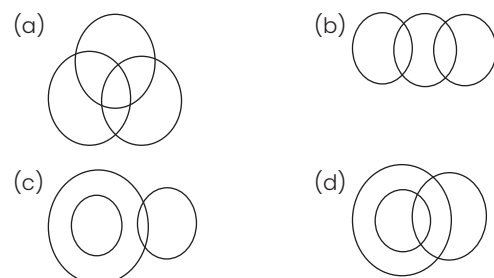
12. Which one of the following figures represents bowl, table and crockery? **SSC CGL 11/06/2019 (Shift-2)**
    (a)   (b)
    (c)   (d)
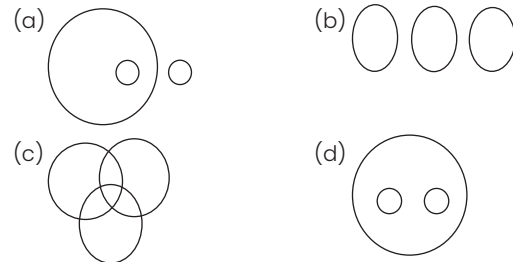
13. Which one of the following figures represents wheat, mustard and cabbage? **SSC CGL 11/06/2019 (Shift-1)**

(a)

(b)

(c)

(d)
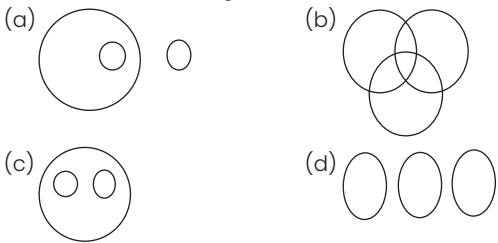
14. Which one of the following figures represents players, singers and students? **SSC CGL 10/06/2019 (Shift-3)**

(1)

(2)

(3)

(4)
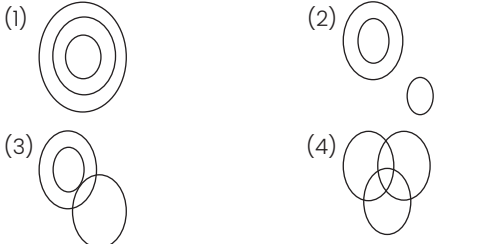
(a) 1　　(b) 2　　(c) 3　　(d) 4

15. Which one of the following figures represents students, teachers and schools? **SSC CGL 10/06/2019 (Shift-2)**

(a)

(b)

(c)

(d)
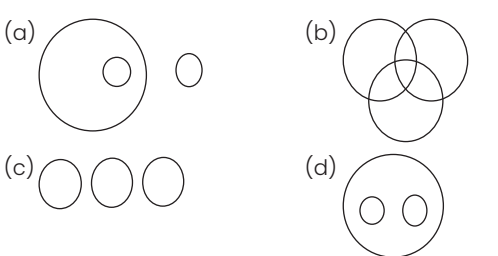
16. In the Venn diagram shown here, the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'. The numbers given in the diagram represent the number of persons of that particular category.
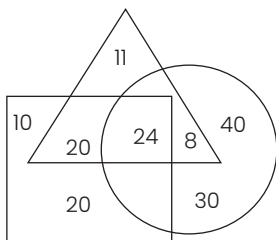
How many students are diploma holders but NOT graduates? **SSC CGL 13/06/2019 (Shift-2)**
(a) 8　　(b) 11　　(c) 40　　(d) 30

17. In the given Venn diagram, the hexagon represents 'farmers', the circle represents 'beneficiaries' and the square represents 'land-owners'. The numbers given in the diagram represent the number of persons in that particular category.
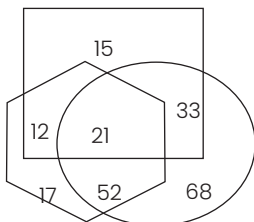
How many farmers are both land-owners and beneficiaries? **SSC CGL 13/06/2019 (Shift-1)**
(a) 21　　(b) 55　　(c) 12　　(d) 52

18. In the given venn diagram, the rectangle represents 'Women', the pentagon represents 'Entrepreneurs' and the triangle represents 'Mothers'. The number given in the diagram represents the number of persons in that particular category.
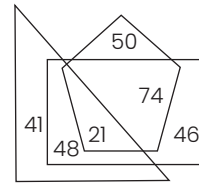
How many women are entrepreneurs but NOT mothers? **SSC CGL 12/06/2019 (Shift-3)**
(a) 21　　(b) 74　　(c) 50　　(d) 46

19. In the given Venn diagram, the pentagon represents 'cricketers', the square represents 'Chess players' and the circle represents 'Clerks'. The numbers given in the diagram represent the number of persons in that particular category. **SSC CGL 12/06/2019 (Shift-2)**
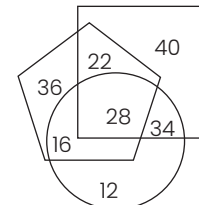
How many cricketers are chess players but NOT clerks?
(a) 22　　(b) 34　　(c) 40　　(d) 36

20. In the given venn diagram, the circle represents 'businessmen', the triangle represents 'landlords' and the rectangle represents 'income tax payers'. The numbers given in the diagram represent the number of persons in that particular category.
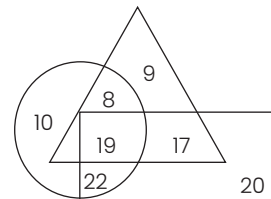
How many businessmen are taxpayers but NOT landlords? **SSC CGL 12-06-2019 (Shift-1)**
(a) 8　　(b) 22　　(c) 17　　(d) 19

21. In the venn diagram given below, the 'Circle represents 'Ladies', the 'triangle' represents 'Constables' and the 'square' represents 'Married Persons'. The numbers given in the diagram represent the number of persons of that particular category. How many lady constables are not married?

SSC CGL 11-06-2019 (Shift-3)
(a) 15　　(b) 8　　(c) 12　　(d) 14

SOLUTIONS

1. (b) According to the question,
   Fruit, Vegetable, Apple

   Apple — Fruit — Vegetable

   Hence, option (b) is correct.

2. (a) According to the question,
   Indians, Females, Voters
   Least possible Venn diagram.

   Voters — Indians — Females

   Hence, option (a) is correct.

3. (d) According to the question,
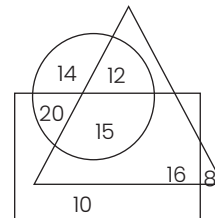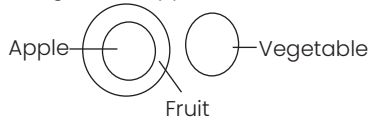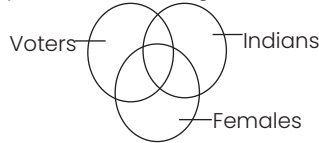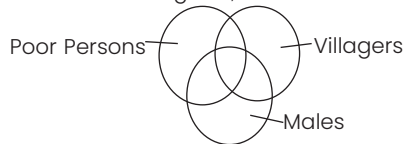   Villagers, Poor Persons, Males
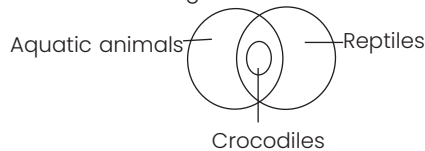   Possible Venn diagram,

   Poor Persons — Villagers — Males

   Hence, option (d) is correct.

4. (a) According to the question,
   Graduates, Teachers, Literates
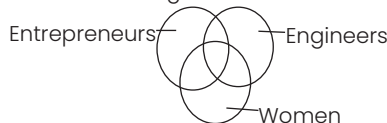   Possible Venn diagram is,

   Literates — Teachers — Graduates

   Hence, option (a) is correct.

5. (c) According to the question,
   Crocodiles, Aquatic animals, Reptiles
   Least Possible diagram is

   Aquatic animals — Reptiles — Crocodiles

   Hence, option (c) is correct.

6. (c) According to the question,
   Women, Entrepreneurs, Engineers
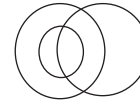   Least Possible diagram is:

   Entrepreneurs — Engineers — Women

   Hence, option (c) is correct.

7. (b) According to the question,
   Doctors, Salaried Persons, Parents
   Least Possible diagram is:

   Salaried Persons — Doctors — Parents
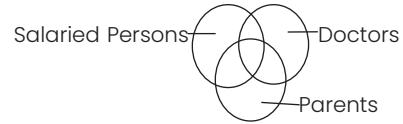
   Relation between each other
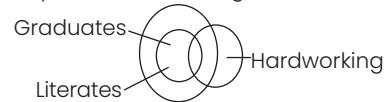   Hence, option (b) is correct.

8. (a) According to the question,
   Snakes, Reptiles, Poisonous
   Least possible Venn diagram is:

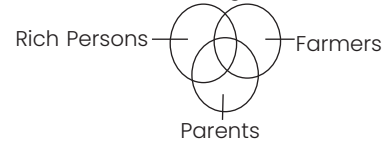   Some snakes are poisonous and all snakes are reptiles.
   Hence, option (a) is correct.

9. (a) According to the question,
   Graduates, Literals and Hardworking
   Least possible Venn diagram is:

   Graduates — Hardworking — Literates

   Hence, option (a) is correct.

10. (b) According to the question,
    Parents, Rich Persons, Farmers
    Least Possible Venn diagram is:

    Rich Persons — Farmers — Parents

    Hence, option (b) is correct.

11. (d) According to the question,
    Uncle, Relatives, Rich
    Appropriate Venn diagram is:

    Relatives — Rich — Uncle

    Hence, option (d) is correct.

12. (a) According to the question,
    Represents Bowl, Table and Crockery
    Appropriate figure is:

    Table — Crockery — Bowl

    Hence, option (a) is correct.

13. (d) According to the question,
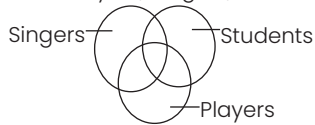   Represents Wheat, Mustard and Cabbage

    Cabbage → Vegetable
    Mustard → Crop
    Wheat → Grain
    Hence, option (d) is correct.

14. (d) According to the question,
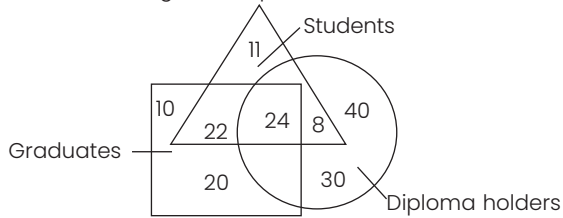Represents Players, Singers, and Students

Hence, option (d) is correct.

15. (d) According to the question,
Represents Students, Teachers, Schools
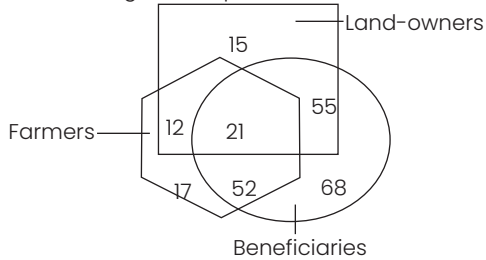

Hence, option (d) is correct.

16. (a) According to the question,

No. of diploma holder students = 8
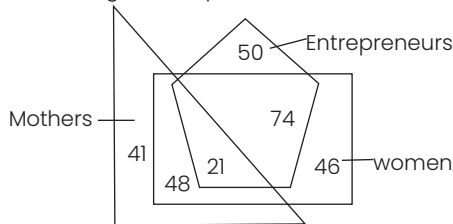Hence, option (a) is correct.

17. (a) According to the question,

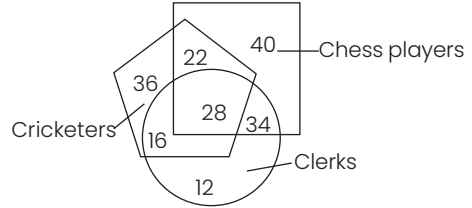No. of farmers (both land owners + beneficiaries) = 21
Hence, option (a) is correct.

18. (b) According to the question,

No. of women (Entrepreneurs not mothers) = 74
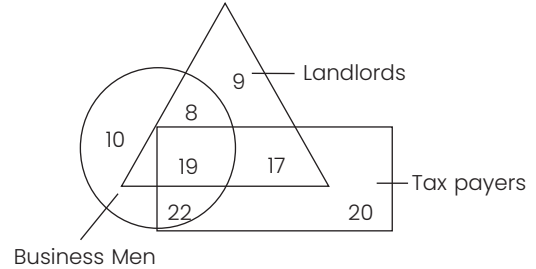Hence, option (b) is correct.

19. (a) According to the question,

No. of Cricketers (chess players not clerks) = 22
Hence, option (a) is correct.

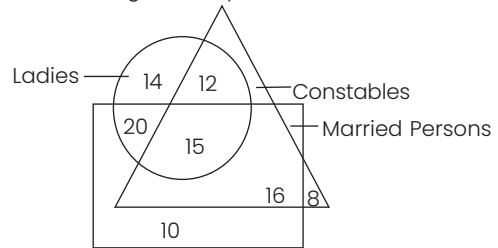20. (b) According to the question,

No. of businessmen are tax payers but not landlords = 22
Hence, option (b) is correct.

21. (c) According to the question,

No. of Lady constables but not married = 12
Hence, option (c) is correct.