LOGICAL DIAGRAM

EXERCISE

Directions : From the five logical Diagrams, select one which best illustrates the relationship among three given classes in the questions 1 to 10.



- 1. Birds, fruits, mangoes
- 2. Criminals, lawyers, bandits
- 3. Swimmers, bachelors, men
- 4. Smart, engineers, women
- 5. Vegetables, potatoes, brinjals
- 6. Grapes, sweet, fruit
- 7. Doctors, architects, humans
- 8. Scholars, people, Indians
- 9. Children, naughty, studious
- 10. Pens, pencils, stationery

Directions : From the five logical diagrams select

one which best illustrates the relationship among three given classes in questions 11 to 20.



- 12. Canines, dogs, pups
- 13. Table, chair, stool
- 14. Ripe, mangoes, basket
- 15. Scholars, studious, illiterates
- 16. Cars, ships, means of conveyance
- 17. Age, number, thirteen
- 18. Country, state, continent
- 19. Father, parent, mother
- 20. Iron, metal, mercury

EXPLANATORY ANSWERS

1. (a) : Mangoes Birds

All mangoes are fruits, but neither fruits, nor mangoes can be birds.



All bandits are criminal, but neither criminals nor bandits can be lawyers.



All bachelors are men and some men and bachelors can be swimmers.



Some women can be smart and some women can be engineers and vice–versa. Some engineers can be women and some engineers can be smart and vice–versa.



Potatoes and brinjals are vegetables but they have nothing in common. Some vegetables are potatoes and some are brinjals.



Some grapes are sweet and all grapes are fruit. But not all that is sweet is fruit.



Doctors and architects are two separate classes, but all doctors and architects are humans and some humans are either doctors or architects.





Some Indians can be scholars and some scholars can be Indians. All scholars and Indians are people.



Some children can be naughty and some can be studious, some studious can be children and some naughty. Some naughty can be studious and some children.



12. (c) :



Pens and pencils both are items of stationery and some stationery is pens and pencils, but pens and pencils are two separate classes.

Some ink and some crayons can be red and some red units can be inks and crayons, but ink and crayon have nothing in common.



All pups are dogs and all dogs are canines. Some canines are dogs, of which some are pups.



All three are different classes.

14.*(e)* :

15. (e) :



Some mangoes are ripe and some ripe units are mangoes, but neither ripe units nor mangoes can be baskets.



Some studious can be scholars and some scholars can be studious, but neither studious nor scholars can be illiterates.

All cars and all ships are means of conveyance, but neither is contained in the other. Some means of conveyance are cars and some ships.

Some are aged thirteen and some numbers are thirteen. Some thirteen units are numbers and some ages. Age and number have nothing in common.

All continents contain countries within it and each country contains states within it.



All fathers and mothers are parents, but they are two separate classes. Some of the parents are fathers and some are mothers.





Iron and mercury are metals, but they have nothing in common. Some metals are iron and some mercury.