

Q.No:4:

d:

Montreal Protocol:

Montreal Protocol is the Protocol of Vienna convention to protect the ozone layer. It was signed on September 16, 1987. Many countries signed this treaty to reduce the use of hazardous substances which cause the depletion of ozone layer.

Kyoto Protocol:

Kyoto Protocol is an international treaty signed in Kyoto, Japan on December 11, 1997 Under (UNFCCC) to reduce the carbon emission. 192 countries signed this agreement. The purpose were:

- 1) To reduce carbon emission
- 2) Make policies
- 3) To provide fund to the developing countries to use produce less carbon emission.

Date: _____

Day: M T W T F S S

C. Pakistan is the fifth most populous country by having 241.49 million population. In 1951 the population of Pakistan was 32.5 million.

Causes:

Lack of education:

People with low education or no education have no population planning. They don't estimate the better future of the children.

Religious factors:

As Pakistan is a Muslim country, so, the people of Pakistan believe in the faith that the upcoming children will have all the necessities as Allah provides the food.

Cultural norms

As it is in Pakistani culture to not to stop birth of children. As population planning is a sin and against their dignity.

Control measures:

Educating the parents:

By providing education and spreading awareness about the better life of the children can help the in reducing population.

If the parents come to know that their children won't get the better life if they give birth without planning then they will plan their family.

Population Planning Methods:

There are many population planning by adopting them effectively the rate of population can be controlled.

Role of Religious people:

The religious people like in mosque can spread the awareness about the control of population.

As having more children is equal to less provision of rights of the children.

b. What is GIS? What are the components of GIS?

GIS is the Geographic Information System which is a computer system capturing, storing, analyzing and displaying geographical information.

Components of GIS:

Hardware:

Hardware is the computer on which GIS operates.

Software:

Software provides the function to store, analyze and display information.

Data:

People:

The GIS can not be operated and managed without people. People control and operate the whole system.

Procedure:

A GIS can operate according to a designed procedure.

a:

Solid waste management is a supervised handling of solid waste from generation (collection) to recovery process upto disposal.

Section - B

Q 6:

a:

Solution:

Amount to be divided = \$370

$$2^{\text{nd}} \text{ part} = \frac{1}{4} (3^{\text{rd}} \text{ part})$$

$$\text{Given Ratio} = 3 : \frac{1}{4}(5) : 5$$

$$\text{Sum of ratio} = 3 + \frac{5}{4} + 5$$

$$= 3 + 1.25 + 5 = 9.25$$

$$1^{\text{st}} \text{ part} = \frac{3}{9.25} \times 370$$

$$= 3 \times 40 = \$120$$

$$2^{\text{nd}} \text{ part} = \frac{1.25}{9.25} \times 370$$

$$= 1.25 \times 40 = \$50$$

$$3^{\text{rd}} \text{ part} = \frac{5}{9.25} \times 370$$

$$= 5 \times 40 = \$200$$

$$1^{\text{st}} \text{ part} = \text{~~120~~ } \$120$$

$$2^{\text{nd}} \text{ part} = \$50$$

$$3^{\text{rd}} \text{ part} = \$200$$

b:

Solution:

Amount needed = Rs. 800

He borrowed from his brother = $\frac{20}{100} \times 800$

$$= \text{Rs. } 160$$

$$\text{Remaining} = 800 - 160 = \text{Rs. } 640$$

Got 30% of remaining from mother = $\frac{30}{100} \times 640$

$$= \text{Rs. } 192$$

$$= 6 \times 32$$

$$= \text{Rs. } 192$$

He had money in his bank = Rs. 200

$$\text{Total amount he collected} = 160 + 192 + 200$$

$$= \text{Rs. } 552$$

$$\text{He needs more} = 800 - 552$$

$$= \text{Rs. } 248$$

c:

Solution:

3 bags contain balls =

3 red 8 red 4 red

7 black 2 black 6 black

Prob (E) = $\frac{\text{No. of ways of occurrence on an event}}{\text{Total possible outcome}}$

$$\text{Probability (Red ball)} = \frac{15}{30}$$

$$= \frac{1}{2}$$

d:

Solution:

(Changing traffic light after every =

1st road = 24 sec

2nd road = 36 sec

3rd road = 72 sec

They change simultaneously = 8:20:00 hrs

What time they change again simultaneously = ?

$$2 \mid 24, 36, 72$$

$$2 \mid 12, 18, 36$$

$$2 \mid 6, 9, 18$$

$$3 \mid 3, 9, 9$$

$$3 \mid 1, 3, 3$$

$$1 \mid 1, 1$$

~~P~~ L.C.M = Product of Common factors ~~x~~ Product of U-Common factors

L.C.M = Product of common factors and Uncommon factors

$$= 2 \times 2 \times 2 \times 3 \times 3$$

$$= 72 \text{ Seconds}$$

$$= 1 \text{ minute } 12 \text{ Seconds}$$

First they change in = 8:20:00 hrs

Again they will change in = 1 minute 12 seconds

8:

b:

Solution:

ROSE = 6821

CHAIR = 73456

PREACH = 961473

SEARCH = ?

R = 6 C = 7 P = 9

O = 8 H = 3

S = 2 A = 4

E = 1 I = 5

S	E	A	R	C	H
2	1	4	6	7	3

C:

Ans. A is the brother of B, B is the sister of C. It means A and C are brothers. C is the father of D and (D is male member.) it means D is the nephew of A. A is the Uncle of D.

