

Day: Saturday

Date: 03-02-24

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Batch :- 344

Subject :- General Science & Ability

SECTION-II

QUESTION:- 6

a). Three candidates contested election...
= Solution

First candidate received votes = $C_1 = 15000$

= C_1 = Winner

Second candidate received votes = $C_2 = 10000$

Third candidate received votes = $C_3 = 8000$

Total vote casted = $C_1 + C_2 + C_3$

$$= 15000 + 10000 + 8000$$

$$= 33000$$

Percentage of total votes of winning candidates = $\frac{C_1}{C_1 + C_2 + C_3} \times 100$

$$= \frac{15000}{33000} \times 100$$

$$= 45.45\%$$

Percentage of total votes of winning candidates = 45.45%

b). The ratios of angles of ... ?

GIVEN DATA:-

Ratios of angles of triangle = 3:4:5

To Find:-

Angle of each = ?

Solution:-

Sum of angles of triangle = 180

Ratios of angles of triangle = 3:4:5

Total parts = 3+4+5

= 12

Each part has angle = $\frac{180}{12}$

12

Each part has angle = 15°

First angle = $15^\circ \times 3$

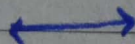
First angle = 45°

Second angle = $15^\circ \times 4$

Second angle = 60°

Third angle = $15^\circ \times 5$

Third angle = 75°



c. In a sports meet, a group of boys..?

GIVEN Data:-

Group formed of boys and girls = Boys = 4

Girls = 6

Available girls = 102

To Find :-

Required Number of Boys = ?

Solution :-

Total number of girls = 102

Girls in each group = 6

Groups formed = $\frac{\text{Total number of girls}}{\text{Girls in each group}}$

$$= \frac{102}{6}$$

Total Groups formed = 17

Boys in each group = 4

Required number of boys = Boys in each group \times Total Group

$$= 4 \times 17$$

Required number of boys = 68

d). The ratio of present ages of A & B = ?

GIVEN Data:-

Ratio of present ages of A & B = 6:7

After five years, ratio would become = 7:8

To Find:-

Present ages of A and B = ?

Solution:

$$\frac{A}{B} = \frac{6}{7} \rightarrow (i)$$

Second equation, Becomes, after 5 years:-

$$\frac{A+5}{B+5} = \frac{7}{8}$$

$$8A+40 = 7B+35 \quad (\text{Cross multiply})$$

$$\Rightarrow 7B - 8A = 5 \rightarrow (iii)$$

$$\text{From eq (i)} \Rightarrow A = \frac{6}{7}B \rightarrow (iv)$$

Put in eq (iii)

$$7B - 8\left(\frac{6}{7}B\right) = 5$$

$$7B - \frac{48B}{7} = 5$$

$$\frac{49B - 48B}{7} = 5$$

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$$\frac{B}{7} = 5$$

$$B = 5 \times 7$$

$$B = 35$$

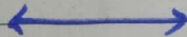
Put value of B in eq (iv)

$$A = \frac{6}{7} B = \frac{6}{7} (35)$$

$$A = 30$$

Present Age of A = 30 years

Present Age of B = 35 years



QUESTION :- 8

(a). The sum of three consecutive odd - ?

GIVEN Data :-

Sum of three consecutive odd numbers = 273

To Find :-

Three Odd Numbers = ?

Solution :-

Let the odd number = x

Three consecutive odd numbers

are = $x - 2, x, x + 2$

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The sum of three odd number = 273

$$x-2 + x + x+2 = 273$$

$$3x = 273$$

$$x = \frac{273}{3}$$

$$x = 91$$

Three consecutive numbers are:-

$$\begin{aligned} \text{First Number} &= x-2 \\ &= 91-2 \end{aligned}$$

$$\text{First Number} = 89$$

$$\text{Second Number} = x = 91$$

$$\begin{aligned} \text{Third Number} &= x+2 \\ &= 91+2 \end{aligned}$$

$$\text{Third Number} = 93$$

The three odd consecutive are 89, 91, 93.

b). Find missing number in giving series:-

$$(i). 4, 16, 36, 64, ?, 144$$

$$2^2, 4^2, 6^2, 8^2, 10^2, 12^2$$

The series become:-

$$4, 16, 36, 64, 100, 144$$

(ii). 30, 29, 27, ?, 20, 15

30, 30-1, 29-2, 27-3, 24-4, 20-5

The series become:-

30, 29, 27, 24, 20, 15

(iii). 1, 7, 15, 25, ?, 51

1, 1+6, 7+8, 15+10, 25+12, 37+14

The series become:-

1, 7, 15, 25, 37, 51

(iv). 0, 2, 6, 12, 20, 30, ?

0, 0+2, 2+4, 6+6, 12+8, 20+10, 30+12

The series become:-

0, 2, 6, 12, 20, 30, 42

(v). 48, 24, 72, 35, 108, ?

48, 24, 48+24, 24+11, 72+36, 35+22

The series become:-

48, 24, 72, 35, 108, 57



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c. Find out the correct word from the --?

(i) THRSI

Shirt

(ii) GNDREA

Grande

(iii) SCHAMOT

(iv) ONLNDO

London

v) HIO DALY

Holiday

d). Sara's mother \longleftrightarrow is 6 times --?

GIVEN Data:-

- * Sara's mother 6 times older than Sara
- * Brother Ali is twice old as Sara
- * In three years, sum of ages = 72

To Find:-

Age of Sara = ?

Age of Ali = ?

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Age of Mother = ?

Solution :-

Let age of Sara = x =Let age of Ali = y Let age of Sara's mother = z

From first statement :-

$$z = 6x \rightarrow (i)$$

From second statement :-

$$y = 2x \rightarrow (ii)$$

From third statement :-

After 3 years :-

$$(x+3) + (y+3) + (z+3) = 72$$

$$x + y + z + 9 = 72$$

$$x + y + z = 72 - 9$$

$$x + y + z = 63 \rightarrow (iii)$$

Put values of y and z

$$x + 2x + 6x = 63$$

$$9x = 63$$

$$x = 7$$

Put x in eq (i)

$$z = 6(7) = 42$$

Put x in eq (ii)

$$y = 2(7)$$

$$y = 14$$

Age of Sara = $x = 7$ years

Age of Ali = $y = 14$ years

Age of Sara's Mother = $z = 42$ years



SECTION-I

QUESTION-3

a). 2023 was the hottest year ... ?

Impact of Global Warming:-

The major hurdles in developing countries to tackle the impact of global warmings are:-

1 Economic Instability:-

There are financial crises in developing

countries as flood destroy every thing. The flood causes severe issues like health, hungry and food starvation as well.

Minimum Dams:-

Most of the countries from under-developed class has less number of dams. When flood comes, there is no dam to store the water which causes less devastation.

International Financial Aid:-

As developed countries who are the cause of these severe weather condition do not give the required amount as financial aid like USA, UK, Russia, China etc.

Health Issues:-

The flood also causes health issues which is one of major hurdle.

c). Machine learning is subset -- ?

Machine Learning :-

The machine learning has ease the life of human beings as they use neural networks for function of different things :-

(i). Robots :-

Through machine learning, the robots are made which has also replaced human as well.

The robots are employed as waiters in restaurant. The amazon warehouses also use robots as workers.

(ii). Chat GPT :-

The ChatGPT has been made by machine learning which has helped alot human beings to get knowledge at door step. It gives the answer of any asked question.

Chips in Human Brain :-

Elon musk has made the chips which was planted in human. It was seen that human brain started to work more efficiently.



d). Distinguish RAM & ROM - - ?

RAM	ROM
<ul style="list-style-type: none"> * It stands for random access memory 	<ul style="list-style-type: none"> * It stands for read only memory.
<ul style="list-style-type: none"> * Used for read and write 	<ul style="list-style-type: none"> * Only used to read
<ul style="list-style-type: none"> * It is temporary storage memory 	<ul style="list-style-type: none"> * It is permanent storage memory.
<ul style="list-style-type: none"> * Volatile 	<ul style="list-style-type: none"> * Non-Volatile
<ul style="list-style-type: none"> * Writing data is faster 	<ul style="list-style-type: none"> * Writing data is slower.
<ul style="list-style-type: none"> * Store data in MBs 	<ul style="list-style-type: none"> * Store data in GBs
<ul style="list-style-type: none"> * Used in normal operations 	<ul style="list-style-type: none"> * Used for startup process of computer

QUESTION 1-4

What are Method - - - ?

Solid Waste Management:-

It is the process in which the waste is collected from points and deposited them.

Methods Employed:-

Waste Collection

1. Collection Point:-

The national government specify points where the waste is thrown. The waste is collected from that point.

2. Staff Hiring:-

The staff is hired to collect the waste from specified collected points. The staff hired should be permanent.

3. Waste Vehicles :-

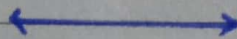
The vehicles are used to collect the waste. These vehicles are managed by the staff.

Recovery Process :-

For recovery process, there is need of transfer station. The categorization of waste take place.

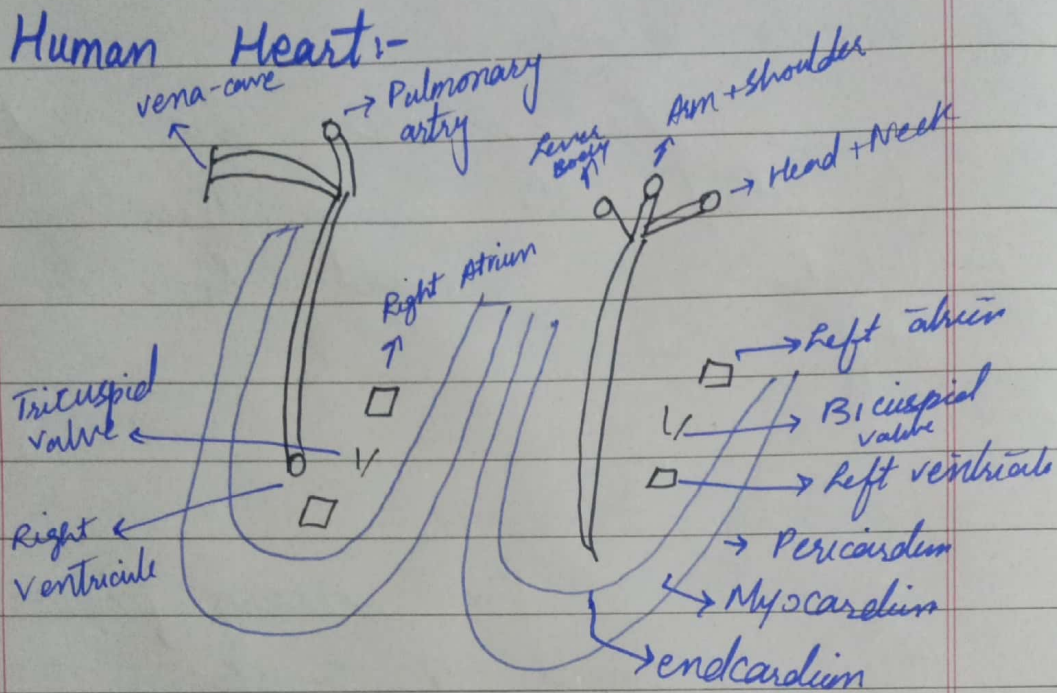
Waste Disposal :-

The collected waste is deposited out of city where the points are specified by government.



b). How does a Human heart work in blood circulation ?

Human Heart:-



Human heart is main muscle which is responsible to pump the blood in body.

Chamber:-

There are 4 chambers

- 1- Left atrium
- 2- Right atrium
- 3- Left ventricle
- 4- Right ventricle

Valves:-

There are 2 valves

Walls:-

There are 3 walls or layers that are responsible for protection, mechanical support and definite shape to heart.

1. Endocardium
2. Pericardium
3. Myocardium.

~~Write uses of each of following:-~~

c) What is Myopia & Hyper -- ?

Myopia:-

It is used for short sightedness and convex lens are used to correct this.

Hyperopia:-

It is used for far sightedness and concave lens are used to correct this.

Major Parts:-

1. Iris
2. Cornea
3. Pupil