CLASS-10 (26/5/20)

*Hindi

* Doordarshan ke labh Hani Vishay per ek nibandh likhiye.

Sanket Bindu- durdarshan ka Arth aur Parichay, durdarshan ki upyogita, durdarshan ki lokpriyata ke karan, durdarshan se hone wali haniyan, Nishkarsh.

*SCIENCE

Chemistry

1... What type of reaction is represented by the digestion of food in our body?

2.... What is antioxidant ?why are they added to fat and oil containing foods?

3.... What type of reaction are represented by the following equation?

a.. $CaCO_3 \rightarrow CaO+CO_2$

b... $Cao+H_2O \rightarrow Ca(OH)_2$

C... $CuSO_4+2NaOH \rightarrow Cu(OH)_2 +NaSO_4$

4..... What is Redox reaction explain with examples?

*MATHS

Do it from the attached image.

*ENGLISH

ANSWERS of Exercise-10

1. at , in
2. beside , on
3. under , on
4. beside
5. front
6. on
7. in
8. under
9. over
10. over
11. in
12. into
13. beside
14. between
15. on ,in
16. in ,in
17. on, in
18. in , on , below.
19. on , at ,at
20. in ,in

25/ May X (maths)

Ex.1. Find the nature of the roots of the quadratic equation $4x^2 - 5x + 3 = 0$.

Sol^n :- $4x^2 - 5x + 3 = 0$

$a = 4,\ b = -5,\ c = 3$ on comparing with standard form of quadratic eq^n.

$D = b^2 - 4ac$

$= (5)^2 - 4 \times 4 \times 3 = -23 < 0$

$\because D < 0$, hence, the given equation has no real roots.

Ex.2 Find the values of k for which the quadratic equation $2x^2 + kx + 3 = 0$ has two real equal roots.

Sol^n :- $a = 2,\ b = k,\ c = 3$

$D = b^2 - 4ac$

$= k^2 - 4 \times 2 \times 3$

$= k^2 - 24$

for real equal root $D = 0$

$\Rightarrow k^2 - 24 = 0$

$k^2 = 24$

$\boxed{k = \pm 2\sqrt{6}}$

Ex.3 Show that equation $2x^2 - 6x + 3 = 0$ has real root.

Sol^n :- $a = 2,\ b = -6,\ c = 3$

$D = b^2 - 4ac$

$= (-6)^2 - 4 \times 2 \times 3$

$= 36 - 24 = 12$

$\Rightarrow D > 0$ $\Rightarrow$ So the given equation has real roots.