CLASS-10 (27/5/20)
* MATHS
Do it from the attached images

* HINDI
* Plastic Ki Duniya Vishay per ek nibandh likhiye.
Sanket Bindu- Bhumika, plastic ki upyogita aur mahatva, plastic ki lubhavni dooniya, plastic se haniyan,upsanghar.

*SCIENCE
1.... What is an Oxidation reaction ? What is oxidising and reducing agent ?Identify in the following reaction (a) the substance oxidized (b) the substance reduced .
$ZnO +C$➡️$Zn+Co$
2.... What is mean by displacement reaction and double displacement reaction explain with the help of one example each.
3.... What happen when a piece of iron metal is placed in copper sulphate solution .name the type of reaction involved.
4.... What happen when silver chloride is exposed to sunlight. write a chemical equation for this reaction also give one use of such a reaction.

*ENGLISH
Q. 1. Rewrite the following sentences according to instructions given after each.

1. He really likes correcting her English. (use pleasure)
2. It's not necessary to take a lot of luggage when going on holiday. (use Much)
3. Perhaps he hasn't received the doctor's results yet (use may)
4. All I want you to do is to look after my dog. (use care)
5. She was not certain about the trip (use decide)
6. He locked the gate so that the dog wouldn't escape. (use prevent)
7. They did not like to pay extra taxes. (use objected)
8. The day was so nice that we went on a picnic. (use such)
9. The only person I didn't see was Jane. (use except)
10. She decided to visit her friend and tell her the news. (use drop)
11. It wasn't necessary to meet me at the airport yesterday. (use needn't)
12. It was unkind of you to talk to her like that. (use not)
13. I saw the film although I strongly dislike thrillers (use spite)
14. It's not possible to play tennis because of the rain. (use makes)
15. I've never tasted such good food before. (use ever)
16. Do your parents allow you to watch TV late at night? (use let)
17. "Did you write a note for Anna?" I asked my mother. (use she)
18. He gave me the money first, and then he left. (use after)
19. I don't find it difficult to get up early any more. (use used)
20. We have to reduce our expenses. (use cut)
21. "Can you please explain this to me?" she asked the teacher. (use if)
22. Perhaps he's working late. (use may)
23. Nobody ever told me about it. (use never)
24. "I'll pick him up from the airport," she said. (use offered)
25. I was so shocked that I couldn't react. (use wasn't)
26. People say Greek is a difficult language to learn. (use said)
27. The police have investigated the crime. (use by)
28. Without your help, I would never have managed. (use you)
29. The manager made the employees stay late. (use made)
30. When can their glory fade? (use never)

1. Find the nature of the roots of the following quadratic equations:

   (i) $2x^2 - 8x + 5 = 0$

   (ii) $3x^2 - 2\sqrt{6}x + 2 = 0$

   (iii) $5x^2 - 4x + 1 = 0$

   (iv) $5x(x-2) + 6 = 0$

   (v) $12x^2 - 4\sqrt{15}x + 5 = 0$

   (vi) $x^2 - x + 2 = 0$

2. If a and b are distinct real numbers, show that the quadratic equation $2(a^2 + b^2)x^2 + 2(a + b)x + 1 = 0$ has no real roots.

3. Show that the roots of the equation $x^2 + px - q^2 = 0$ are real for all real values of p and q.

4. For what values of k are the roots of the quadratic equation $3x^2 + 2kx + 27 = 0$ real and equal? [CBSE 2008C]

5. For what value of k are the roots of the quadratic equation $kx(x - 2\sqrt{5}) + 10 = 0$ real and equal? [CBSE 2013]

6. For what values of p are the roots of the equation $4x^2 + px + 3 = 0$ real and equal? [CBSE 2014]

7. Find the nonzero value of k for which the roots of the quadratic equation $9x^2 - 3kx + k = 0$ are real and equal. [CBSE 2014]

8. Find the values of k for which the quadratic equation $(3k + 1)x^2 + 2(k + 1)x + 1 = 0$ has real and equal roots. [CBSE 2014]

9. Find the values of p for which the quadratic equation $(2p + 1)x^2 - (7p + 2)x + (7p - 3) = 0$ has real and equal roots. [CBSE 2014]

10. Find the values of p for which the quadratic equation $(p + 1)x^2 - 6(p + 1)x + 3(p + 9) = 0, p \neq -1$ has equal roots. Hence, find the roots of the equation. [CBSE 2015]

11. If -5 is a root of the quadratic equation $2x^2 + px - 15 = 0$ and the quadratic equation $p(x^2 + x) + k = 0$ has equal roots, find the value of k. [CBSE 2014]

12. If 3 is a root of the quadratic equation $x^2 - x + k = 0$, find the value of p so that the roots of the equation $x^2 + k(2x + k + 2) + p = 0$ are equal. [CBSE 2015]