



SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

ASSIGNMENT – 3 (2018-19)

Class – XII [Science]

Name : _____ UID: _____

Subject : English

1. You are asked to prepare a poster on behalf of Delhi Police traffic department asking people to cooperate by not violating the traffic rules. Draft it.
2. You are Mr. Chandra Mohan Singh of Rajendra Nagar, Delhi. Draft an invitation for your daughter Shradha's marriage.
3. Write a letter from a business firm to a customer in reply to his complaint that the goods sent were received in damaged condition.
4. India is a country which has always respected women. Write an article in 150-200 words on "Status of Women in Free India".

Subject : Mathematics

1. Find area between curves $y = x^2$ and $y = 3x - 2$ from $x = 0$ to $x = 2$.
2. Find area common to circle $x^2 + y^2 = 2$ and the parabola $y^2 = x$.
3. Evaluate $\int_0^{\frac{\pi}{2}} \frac{x}{\sin x + \cos x} dx$.
4. Solve : $(x^2 - y^2)dx + 2xydy = 0$ given that $y = 1$ when $x = 1$.
5. Solve: $(x \frac{dy}{dx} - y) \tan^{-1} \frac{y}{x} = x$ given that $y=0$ at $x=1$.
6. Curves $y = \sin x$ and $y = \cos x$ intersect at infinite number of points forming regions of equal area between them. Calculate area of one such region.
7. The population of a village increases continuously at the rate proportional to the number of its inhabitants present at any time. If the population of the village was 20, 000 in 1999 and 25000 in the year 2004, what will be the population of the village in 2009?

Subject : Physics

1. Do ncert exercise from atoms, nuclei and dual nature of matter and radiation.
2. Practice numericals related to de Broglie wave equation. And photo electric effect.
3. Also practice numericals from radioactive decay law, problems related to finding half lives.
4. Go through the questions and solutions of previous year question asked in cbse board exam from the above mentioned chapters.

Start doing revision for 2nd portion test .Also go through the previous year asked questions in cbse for the chapters of 2nd portion test

SUBJECT: BIOLOGY

1. Malarial parasite 'Plasmodium' completes its lifecycle in two hosts. Draw its complete life cycle and explain various stages it follows throughout its life.
2. What is cancer? How is a cancer cell different from normal cell? How do normal cell attain cancerous nature?
3. Mention the name of the causative organism, symptoms and the mode of transmission of the disease Amoebiasis.

4. Differentiate between outcrossing and outbreeding.
5. Expand MOET. Explain the procedure of this technology in cattle improvement.
6. What is micropropagation? Why are the plants produced by micropropagation called somaclones?
7. a. Why are the fruit juices bought from the market clearer as compared to those made at home?
b. Name the organisms that produce the bioactive molecules statins and cyclosporine A.
8. How can sewage be used to generate biogas? Explain.
9. What are biofertilisers? Describe their role in agriculture. Why are they preferred to chemical fertilizers?
10. a. Why is there a fear amongst the guardians that their adolescent wards may get trapped in drug/alcohol abuse?
b. Explain 'addiction' and 'dependence' in respect of drug/alcohol abuse in youth.

Subject : IP

1. WAP in JAVA to implement database connectivity with mysql where database contains student table with the following fields: (gameID, GameName, core,Top_score,Remarks)
2. Create a web page to implements the form controls used in HTML.

Subject :- H.V.M

1. Write the notation of Drut Khayal in Rag Bhimpalasi with aaroh,avroh,Pakad.
2. Write the detailed description of Saudhi prakash Rag.

Subject : PHYSICAL EDUCATION (048)

1. What is the importance of high altitude training?
2. Describe the factors influencing self-esteem and body image?
3. What are the methods for flexibility training to improve the optimum flexibility?