



# SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

Assignment-2(2019-20)

Class: XII (Commerce)

Name : \_\_\_\_\_ UID : \_\_\_\_\_ :Roll no. : \_\_\_\_\_

### English

Depict the entire story of any chapter from the prescribed syllabus with the help of paintings/ pictures. Do it in a chart paper.

### Mathematics

1. Find the differential equation representing the family of curves  $y=ae^{bx+5}$  where a and b are arbitrary constants.

2. Find the integrating factor of  $x \frac{dy}{dx} - y = x^4 - 3x$ .

3. Find the particular solution of the differential equation  $e^x \tan y dx + (2 - e^x) \sec^2 y e^y dy = 0$  given that  $y = \frac{\pi}{4}$  when  $x = 0$ .

4. Find the general solution of  $y^2 dx + (x^2 - xy + y^2) dy = 0$ .

5. Show that  $(x-y)dy = (x+2y)dx$  is a homogenous differential equation. Also find the general solution.

6. Solve :  $(\tan^{-1}x - y)dx = (1+x^2)dy$ .

7. Find the equation of the curve through the point (1,0) if the slope of the tangent to the curve at any point (x,y) is  $\frac{y-1}{x^2+x}$ .

8. Solve:  $y + \frac{d(xy)}{dx} = x(\sin x + \log x)$ .

### Business Studies

1. Explain the following as factors affecting financing decision:

(a) Cost

- (b) Cash flow position of business
- (c) Level of fixed operating cost and
- (d) Control considerations

2. Explain the following as factors affecting dividend decision:

- (i) Stability of earnings;
- (ii) Growth opportunities;
- (iii) Cash flow position and
- (iv) Taxation policy.

3. What is meant by capital structure? What are the factors to be kept in mind while determining the capital structure of a company?

4. Radhika and Vani who are young fashion designers left their job with a famous fashion designer chain to set-up a company 'Fashionate Pvt. Ltd.' They decided to run a boutique during the day and coaching classes for entrance examination of National Institute of Fashion Designing in the evening. For the coaching centre, they hired the first floor of a nearby building. Their major expense was money spent on photocopying of notes for their students. They thought of buying a photocopier knowing fully that their scale of operations was not sufficient to make full use of the photocopier.

In the basement of the building of 'Fashionate Pvt. Ltd.', Praveen and Ramesh were carrying on a printing and stationery business in the name of 'Neo Prints Pvt. Ltd.' Radhika approached Praveen with the proposal to buy a photocopier jointly which could be used by both of them without making separate investment, Praveen agreed to this.

Identify the factor affecting fixed capital requirements of 'Fashionate Pvt. Ltd.'

5. 'Bharat Express' specialises in Courier Services. Its 'wide range of express package and parcel services' help business firms to make sure that the goods are made available to the customers at the right place and at the right time.

State with reason, whether the working capital requirements of 'Bharat Express' will be high or low.

## Accountancy

1. A company issued 6,000 preference shares of Rs.10 each as fully paid to the vendors for the purchase of building. 20,000 equity shares of Rs.10 each were issued to the public of which, 18,000 were subscribed for. During the first year, 6 per share were called up, payable 3 on Application, 1 on Allotment, 1 on First call and 1 on Second call. The amounts received in respect of the Equity Shares were as follows:

On 16,000 Equity Shares, the full amount called

On 1,200 Equity Shares Rs.5 per share

On 500 Equity Shares Rs.4 per share

On 300 Equity Shares Rs.3 per share

The directors forfeited 800 Equity Shares on which less than 5 per share had been paid and issued only those shares on which only 3 per share has been received as 6 called up for 8 per share. Show Journal Entries in the books of the company.

2. X Ltd. invited applications for issuing 2,00,000 equity shares of 10 each. The amount was payable as follows:

On application : Rs. 3/share

On allotment : Rs. 2/share

On First and Final call : Rs. 5/share

Applications for 3,50,000 shares were received and the allotment was made as follows:

All the shares were allotted on pro-rata basis and excess application money was adjusted towards sums due on allotment. Madhu who belonged to category I and to whom 800 shares were allotted failed to pay the allotment money. Her shares were forfeited immediately after allotment was not received. Pooja who belonged to category III and who had applied for 400 shares failed to pay the final call. Her shares were forfeited after the final call. Out of the forfeited shares 80% shares were reissued as fully paid up @ 9 per share. The reissued shares included all the forfeited shares of Pooja. Pass the necessary journal entries in the books of X Ltd.

3. P Ltd. issued 5,000, 9% debentures of 100 each at a discount of 5% to be redeemed at par in four equal installments from the end of the first year. Show the discount on the Issue of Debentures Account for the period of 4 years.

4. X Ltd. issued 1,20,000, 10% debentures at a discount of 12%. The debentures were redeemable in three equal installments. Prepare discount on issue of debentures account for the three years.

## Entrepreneurship

1. What do you understand by ROI and ROE?
2. Explain the concept of EOQ.
3. Why is working capital important? Also show the computation with the help of an example.
4. Briefly explain the Marketing Plan in a business.
5. What do you understand by Goals of Business and SMART Goals.

## Economics

1. Give the objectives of Government Budget?
2. What do you understand by Revenue Receipts?
3. What do you understand by government budget? Give important points of government budget.
4. Differentiate between Conventional and Non-Conventional source of energy.
5. What do you understand by Economic and Social Infrastructure?