SARALA BIRLA
PUBLIC SCHOOL
(SARALA BIRLA GROUP OF SCHOOLS)

International
Dimension in Schools
2022-25

Class : XII (Commerce)

English (301)

1. Prepare a project on the poetic devices that you have come across in the poems prescribed in your syllabus (NCERT: Flamingo). The poetic devices with the relevant examples should be listed poem- wise and prepared on separate sheets. Use a project file for the same with a cover page, acknowledgement page, a contents page and a reference page for the sources that you will refer to for the project.

2. Collect newspaper clippings on different reports (school report and mishap report- minimum 10 each) and paste it on A4 size sheets to create a resource file. The file must be L- folders.

Accountancy (055)

1. What do you mean by the term 'share'? Discuss the type of shares, which can be issued under the Companies Act, 2013.

2. Explain in brief the main categories in which the share capital of a company is divided.

3. High Light India Ltd. invited applications for 30,000 Shares of Rs.100 each at a premium of Rs. 20 per share payable as follows:

   On Application   Rs.40 (including Rs.10 premium)

   On Allotment   Rs.30 (including Rs.10 premium)

   On First Call   Rs.30

   On Second and Final Call   Rs. 20

   Applications were received for 40,000 shares and pro-rata allotment was made on the application for 35,000 shares. Excess application money was utilised towards allotment.

   Rohan to whom 600 shares were allotted failed to pay the allotment money and his shares were forfeited immediately after allotment.

   Aman who applied for 1,050 shares failed to pay first call and his share were forfeited immediately after first Call. Second and final call was made. All the money due on second call have been received. Of the shares forfeited, 1,000 shares were reissued as fully paid-up for Rs.80 per share, which included the whole of Aman's shares. Record necessary journal entries in the books of High Light India Ltd.

4. The director of Poly Plastic Limited resolved that 200 equity shares of Rs.100 each be forfeited for non-payment of the second and final call of Rs.30 per share. Out of these, 150 shares were re- issued at Rs.60 per share to Mohit. Show the necessary journal entries.

5. Garima Limited issued a prospectus inviting applications for 3,000 shares of Rs.100 each at a premium of Rs.20 payable as follows:

   On Application   Rs.20 per share

   On Allotment   Rs.50 per share (Including premium)

   On First call   Rs.20 per share

   On Second call   Rs.30 per share

   Applications were received for 4,000 shares and allotments made on pro-rata basis to the applicants of 3,600 shares, the remaining applications being rejected, money received on application was adjusted on account of sums due on allotment. Renuka to whom 360 shares were allotted, failed to pay allotment money and calls money, and her shares were forfeited.

Kanika, the applicant of 200 shares failed to pay the two calls, her shares were also forfeited. All these shares were sold to Naman as fully paid for Rs.80 per share. Show the journal entries in the books of the company.

Business Studies (054)

1. Mesca Ltd. a reputed automobile manufacturer needs Rupees ten crores as additional capital to expand its business. Atul Jalan, the CEO of the company wanted to raise funds through equity. On the other hand the Finance Manager, Nimi Sahdev said that the public issue may be expensive on account of various mandatory and non-mandatory expenses. Therefore, it was decided to allot the securities to institutional investors. Name the method through which the company decided to raise additional capital.

2. Alpha Enterprises is a company manufacturing water geysers. The company has a functional structure with four main functions Production, Marketing, Finance and Human Resource. As the demand for the product grew, the company decided to hire more employees. Identify the concept which will help the Human Resource Manager in deciding the actual number of persons required in each department.

3. Hina Sweets is a renowned name for quality sweets since 1935. Harsh the owner of Hina Sweets was worried as the sales had declined during the last three months. When he enquired from the Sales Manager, the Sales Manager reported that there were some complaints about the quality of sweets. Therefore Harsh ordered for sample checking of sweets. Identify the step taken by Harsh that is related to one of the functions of management.

4. These days, the development of a country is also judged by its system of transferring finance from the sector where it is in surplus to the sector where it is needed most. To give strength to the economy, SEBI is undertaking measures to develop the capital market. In addition to this there is another market in which unsecured and short-term debt instruments are actively traded everyday. These markets together help the savers and investors in directing the available funds into their most productive investment opportunity.

   (a) Name the function being performed by the market in the above case.

   (b) Also, explain briefly three other functions performed by this market.

Standard Mathematics (041)

1. A line makes angles A, B, C, D with the four diagonals of a cube. Prove that:

   $\cos^2 A + \cos^2 B + \cos^2 C + \cos^2 D = \frac{4}{3}$

2. Using vectors find the area of ΔABC whose vertices are A(1,2,3), B(2,-1,4) and C(4,5,-1).

3. Find the image of the point P(1, 6, 3) in the line

   $\frac{x}{1} = \frac{y-1}{2} = \frac{z-2}{3}$

4. Form the differential equation of the family of all circles touching the X-axis at the origin.

5. Using integration, find the area of the region enclosed between the circles

   $x^2 + y^2 = 4 \ and \ (x-2)^2 + y^2 = 4$

6. Evaluate: $\sin\{\frac{\pi}{3} - \sin^{-1}(\frac{-1}{2})\}$

7. A window is in the form of a rectangle surmounted by a semicircular opening. The total perimeter of the window is 10 metres. Find the dimensions of the window to admit maximum light through it.

8. Prove that: $\int_0^{\pi/2} \log(\sin x)\, dx = -\frac{\pi}{2} \log 2$

9. Solve the systems of equations using matrix method:

   x+2y+z=7
   x+3z=11
   2x-3y=1

10. Evaluate: $\int_0^{\frac{\pi}{4}} \log(1 + \tan x)\, dx$

Applied Mathematics (241)

1. A container contains 40L of milk. From this container 4L of milk was taken out and replaced by water. This process was repeated 2 more times. How much milk is now left in the container?

2. Solve the differential equation $x \log x \frac{dy}{dx} + y = \frac{2}{x} \log x , x > 0$.

3. From a container containing 50 liters of milk, 8 liters of milk was taken out and replaced by water. This process is repeated two more times. How much milk is now left in the container?

4. Show that the radius of a closed right circular cylinder of given surface area and maximum volume is equal to half of its height.

   A manufacture produces three stationary product pencil, eraser and sharpener which he sells in two markets. Annual sells are given below:

Market		Products (in numbers)	
	Pencil	Eraser	Sharpener
A	10000	2000	18000
B	6000	20000	8000

   If the unit sell of pencil, eraser and sharpener are Rs. 2.50, Rs. 1.50 and Rs. 1.00 respectively, and unit cost of the above three commodities are Rs. 2.00, Rs. 1.00 and Rs. 0.50 respectively.

   Based on above statement answer the following question:

   a) Find the total revenue of market A

   b) Find total revenue of market B

   c) Find the profit in market A

5. Find the particular solution of the differential equation:

6. $y' - y = e^x$, given that y=1 when x= 0

7. A man invests Rs 22500 shares available at 10 % discount. if the dividend paid by the company is 12%, calculate his rate of return.

8. Mr. Verma invested Rs 18000 on Rs 100 shares at discount of Rs 25 paying 12% dividend. At the end of the year, he sells the shares at a discount of Rs 10. Find his rate of return.

9. A person amortizes a loan of Rs 1500000 for renovation of his house by 8 years mortgage at the rate of 12% p.a. compounded monthly. Find

   i. The EMI

   ii. The principal outstanding at the beginning of 40th month.

   iii. The interest paid in 40th month

   iv. Total interest paid

10. What the sum of money invested now could establish a scholarship of Rs 5000 which is to be awarded at the end every year forever, if money is worth 8% p.a.

Economics (030)

1. Visit the site of Reserve Bank of India https://www.rbi.org.in/ Write (a) Bank rate (b) Repo Rate (c) Reverse repo rate [mentioned in home page]

2. You have to go through the site https://www.rbi.org.in/Scripts/PublicationsView.aspx?id=21753 [RBI>Publications]

   Collect/Highlight the important points of Monetary Policy Report – April 2023 by RBI and explain it (500 words) with special reference to the growth, Inflation, financial market and external environment.

   Case Based Questions

3. Read the following article and answer the questions given below: The reserve bank of India unexpectedly cut its key deposit rate for the second time in three weeks, to discourage banks from parking idle funds with it and spur lending instead, to revive a flagging economy amid the corona virus lockdown. This week, Prime Minister Narendra Modi extended until May 3 a lockdown of population of 1.3 billion as India's tally of infections exceeded 10000, despite the 3 week shutdown order from March 24. The RBI cut its reverse repo rate by 25 basis points (bps) to 3.75 percent with immediate effect. Governer Shaktikanta Das told a video conference. The rate had already been cut by 90bps on March 27. "The surplus liquidity in the banking system has risen significantly in the wake of government spending and the various liquidity enhancing measures undertaken by the RBI". He added. "In order to encourage banks to deploy these surplus funds in investments and loans in productive sectors of the economy, it has been decided to reduce the fixed-rate reverse repo rate".

   a. The Reserve Bank of India lowered reverse repo rate to discourage banks from parking idle funds with _____ (RBI/Commercial Banks)

   b. RBI's measure of reduction in reverse repo rate is done to enable commercial banks _____ a. To use the surplus funds for investment b. To grant loans for productive purposes c. To widen economic and financial land space d. all of these

Entrepreneurship (066)

1. Write and explain various types of Merger & Acquisition?

2. Briefly explain the concept of Break even point of multiple commodities, with a suitable example.

3. Write and explain the advantages and disadvantages of the following: a. Franchisee to franchisor b. Franchisor to franchisee

4. Explain the case study of Kraft's takeover of Cadbury.

5. What do you understand by Value chain? Also explain 'Potters Generic Model'.

Hindustani Music (Vocal) 034

1. Write the taal notations of taal Rupak, taal Jhaptal and Dhamar taal alongwith the dugun, teegun, chaugun of the respective taals.

❑❑❑