

# **PHYSICS**

## **Project Work**

**2018-19**

The project work is to be assessed by a Visiting Examiner appointed locally and approved by the Council.

1. Wave Optics
2. Ray optics
3. Optical Instruments
4. Radioactivity
5. Semiconductor Device
6. Communication

# Commerce

## PAPER II

### PROJECT WORK - 20 Marks

Candidates will be expected to have completed two projects from any topic covered in Theory. The project work will be assessed by the teacher and a Visiting Examiner appointed locally and approved by the Council.

Mark allocation for each Project [10 marks]:

Overall format 1 mark

Content 4 marks

Findings 2 marks

Viva-voce based on the Project 3 marks

#### **A list of suggested Projects is given below:**

1. Compare marketing strategies adopted by two different companies of the same industry (FMCG / Telecommunication / media / education industry etc.) keeping in mind the following: Product mix, Price Mix, Place Mix, Promotion Mix
2. Collect newspaper/magazine clippings of five cases filed by consumers in the Consumer Court. Find out the rights violated, and the mechanism used to redress. What was the outcome of each case?
3. Visit a commercial Bank. Find out the procedure to open a savings account. Find out the details of various Agency & General utility services provided by the bank.
4. Compare the interest rates offered by five different commercial banks on fixed deposits under various

categories (general and senior citizens) and various time durations. Find out the procedure and formalities for opening a fixed deposit account. What is the procedure for closing the account on maturity and before maturity period?

5. Select five different companies across varying industries such as I.T., textiles, FMCG, Health Care, etc., included in the SENSEX. Keeping hypothetical base money of Rupees One Lakh, invest in the shares of the selected companies. The movement of share prices selected by you should be monitored over a period of one month on a daily basis. A uniform / standard practice of either using the opening price or the closing price on a particular day of the week should be used by all students in the class. At the end of the month, analyze your investment in a spread sheet and give reasons for your choice of scripts.

6. Find out the names of companies under various sectors (FMCG, Pharmaceutical, Automobile, etc) included in the NIFTY and the SENSEX. Make a chart of the same and track its movements over a period of one week.

7. (a) Study the sources of recruitment and steps involved in the selection procedure adopted by two companies of the same industry. (b) Compare and evaluate the sources of recruitment and the selection process adopted by the selected companies. 8. Formulate a capital plan for a hypothetical business organization. Justify your formulated plan.

9. Choose two companies of the same industry. Study their organizational structure. Also give information with regard to: (i) Hierarchy (ii) Centralization and delegation of authority (iii) Flow of information (scalar chain) (iv) Span of control (v) Channel of communication.

10. Select any business undertaking. Study the selected business in terms of ownership, capital and profitability. Make a S.W.O.T. analysis and present it in a tabular form. NOTE: No question paper for Practical work will be set by the Council.

# Chemistry

## Project Work

2018-19

The project work is to be assessed by a Visiting Examiner appointed locally and approved by the Council. The candidate is to creatively execute one project/assignment on an aspect of Chemistry.

### **Suggested Assignments:**

1. Amino acids: Peptides, structure and classification, proteins structure and their role in the growth of living beings.
2. Nucleic Acid: DNA and RNA - their structure. Unique nature. Importance in evolution and their characteristic features.
3. Carbohydrates and their metabolism, Blood - hemoglobin and respiration.
4. Vitamins and hormones
5. Natural polymers (any five) - structure, characteristics, uses. Synthetic polymers (any five) - method of preparation, structure, characteristics and uses. 10. Chemicals and chemical processes in forensic studies.
6. Ancient Indian medicines and medicinal plants.
7. Effect of Green House Gases.
8. How Plastics have changed the world, both socially and economically.

**Dr. Anuradha Dwivedi**

# Biology

## Project Work

2018-19

The project work is to be assessed by a Visiting Examiner appointed locally and approved by the Council.

Preference is to be given to investigatory projects. Teachers may assign the project of their choice. Following is **only a suggestive** list of topics:

<b>S.No</b>	<b>Topics</b>	<b>Student's Name</b>
1	DNA fingerprinting	Muskan
2	Cancer	Riti
3	Diabetes	Aditya Singh
4	Mendelian Inheritance	Akshat
5	Role of enzyme in industry	Apoorva

**Dr. Mamta Pandey**