

# Summer Assignment 2018-19 Class XII

## **General Instructions**

- 1. Use A4 ruled sheets for all subjects.
- 2. All subjects assignments to be compiled and spiral bound.
- 3. Prepare Index for each Subject.
- 4. Assignment should be legible and neat.
- 5. Practical files should be made neat and clean to be assessed as final practical's (Use Evergreen practical file)
- 6. Pages used for Project file should be of similar size.

#### **ENGLISH**

- 1. Write book Review on "The Invisible Man"
- 2. Design poster on "Domestic Waste Management, drive ideas from Newspapers, magazine and internet with Recycle Symbols and motivating Slogans. (On A3 Sheets)
- 3. Draft a letter to the Editor, National Daily suggesting what activities / seminar should be conducted to spread awareness on the subject at District Level.
- 4. You are Head Boy/Girl of Your School, Kapurthala.Draft an invitation (Formal Card Formatusing Chart/ Ivory sheet) for a Seminar on "Domestic Waste Management" organized by School Cabinet.

#### **CHEMISTRY (WORKSHEET)**

**TOPIC: SOLID STATE** 

- 1. What type of substances exhibit anti ferromagnetism?
- 2. Name the defect which increases density of solid.
- 3. How do metallic and ionic substances differ in conducting electricity?
- 4. What type of semiconductor is produced when Si is doped with group 15 elements?
- 5. What type of point defect is produced when AgCl doped with CdCl<sub>2</sub>?
- 6. Iron has b.c.c unit cell with cell edge of 286.65 pm. The density of iron is 7.87 g/cm<sup>3</sup>. Use this information to calculate Avagadro number. (Atomic mass of Fe= 56 g/mol.
- 7. Tungsten crystallizes in b.c.c cell. If the edge of unit cell is 316.5 pm. What is the radius of tungsten atom?
- 8. Silver crystallizes in f.c.c unit cell. Each side of unit cell has length of 400 pm. Calculate the radius of silver atom.
- 9. Write a note on types of defects.
- 10. Differentiate between amorphous and crystalline solids.
- 11. What are F centres in solids?
- 12. Differentiate between Schottky and Frenkel defect.

## **WORKSHEET- 2(CHEMISTRY)**

**TOPIC: SOLUTIONS** 

- 1. Out of 0.1 molal solutions of glucose and sodium chloride respectively, which one will have higher boiling point
- 2. Determine the amount of  $CaCl_2$  (i=2.47) dissolved in 2.5 litre of water so that its osmotic pressure is 0.75 atm at  $27^{0}$ C.
- 3. Calculate the freezing point of an aqueous solution containing 10.50 g of MgBr<sub>2</sub> in 200 g of water(molar mass of MgBr<sub>2</sub> = 184 g/mol).

- 4. A 1.0 molal solution of trichloroacetic acid is heated to its boiling point. The solution has the boiling point of 100.18°C.
- 5. Determine vanthoff factor for trichloroacetic acid.
- 6. Calculate the amount of sodium chloride which must be added to 1 Kg of water so that
- 7. The freezing point of the solution is depressed by 3K.
- 8. Calculate the molality of a 15% solution of H<sub>2</sub>SO<sub>4</sub> .(density of H<sub>2</sub>SO<sub>4</sub>=1.02g/cm<sup>3</sup>)
- 9. What is negative deviation? Give an example.
- 10. Describe how molecular mass of substance can be determined by method based on
- 11. Measurement of osmotic pressure.
- 12. State Henry's law correlating the pressure of gas and its solubility in solvent and mention two applications of henry law.
- 13. Define the following terms- (a) Vanthoff factor (b) Isotonic solution

# WORKSHEET- 3(CHEMISTRY) TOPIC: ELECTROCHEMISTRY

- 1. What is electrochemical equivalent?
- 2. What is the effect of decreasing concentration on the molar conductivity of weak electrolyte?
- 3. Name two metals which can be used for cathodic protection of iron?
- 4. Write an expression to relate molar conductivity of an electrolyte to its degree of dissociation?
- 5. Give an example of fuel cell?
- 6. What is the number of electrons in one coulomb of electricity?
- 7. The specific conductance of 0.12N solution of electrolyte is  $2.4 \times 10^{-22} \text{S cm}^{-1}$  Calculate its equivalent conductivity.
- 8. What is salt bridge? What is its function in the electrochemical cell?
- 9. Why is cell stops working after some time?
- 10. The electrical resistance of a column of 0.05mol/L NaOH solution of diameter 1cm and length 50cm is 5.55x10<sup>3</sup> ohm. Calculate its resistivity, conductivity and molar conductivity?
- 11. State Kohlrausch law of independent migration of ions. Write an expression for the molar conductivity of acetic acid at infinite dilution according to this law?
- 12. Explain with the help of diagram, the effect of change in concentration of solution on the molar conductivity of weak electrolyte and strong electrolyte?

# WORKSHEET- 4(CHEMISTRY) TOPIC: CHEMICAL KINETICS

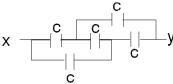
- 1. What is pseudo first order reaction? Give an example.
- 2. Differentiate between rate of reaction and rate constant.
- 3. Write difference between order of reaction and rate constant.
- 4. What is activation energy? How is activation energy affected by use of catalyst and increase in temperature?
- 5. A reaction is first order in A and second order in B
  - How is rate affected when the concentration of B is tripled?
  - How is rate affected when the concentration of A and B is doubled?
- 6. What are the factors on which rate of reaction depends? Discuss each factor in brief.
- 7. Derive the integrated rate expression for zero order reaction and half life period?
- 8. A first order reaction is 20% complete in 10 min. Calculate the time required by the reaction for 75% completion.
- 9. The rate constant of first order reaction becomes 6 times when the temperature is raised from 350K to 410K. Calculate the energy of activation for the reaction?
- 10. Why liquid bromine reacts slowly as compared to bromine vapour?
- 11. Why wood shaving burn more rapidly than a log of wood?
- 12. Why a lump of coal burns at moderate rate in air a while coal dust burns explosively?

#### PRACTICAL WORK (CHEMISTRY)

- 1. To determine the molarity and strength of KMnO<sub>4</sub> solution by titrating it against Mohr's salt solution(M/10).
- 2. To determine the molarity and strength of KMnO<sub>4</sub> solution by titrating it against Oxalic acid solution(M/10).
- 3. To prepare Lyophilic sol of starch.
- 4. To prepare a sample of Mohr's salt or ammonium ferrous sulphate.

#### **PHYSICS (Worksheet-1)**

- 1. What orientation of an electric dipole in a uniform electric field corresponds to stable equilibrium?
- 2. Name the physical quantity whose SI unit is JC<sup>-1</sup>. Is it a scalar or a vector quantity?
- 3. What is the amount of work done in moving 100 µC charge between two points 5 cm apart on an equipotential surface?
- 4. The distance of the field point on the axis of a small electric dipole is doubled. By what factor will the electric field due to dipole changes?
- 5. A Gaussian surface encloses an electric dipole within it. What is the total flux across sphere?
- 6. What is the angle between the directions of electric field at any (i) axial point and (ii) equatorial point due to an electric dipole.
- 7. Two capacitors of capacitance 6mF and 12mF are connected in series with the battery .The voltage across the 6mF capacitor is 2 volt. Compute the total battery voltage.
- 8. Five identical capacitors, each of capacitance C are connected between points X and Y as shown in the figure.
- 9. If the equivalent capacitance of the combination between X and Y is 5mF Calculate the capacitance of each capacitor.



- 10. A parallel plate capacitor with air between the plates has a capacitance of 8 pF. The separation between the plates is now reduced by half and the space between them is filled with a medium of dielectric constant 5.calculate the new value of capacitance?
- 11. What is electric potential? Give its SI unit. Find the expression for the electric potential at any point due to a point charge.

## PHYSICS(Worksheet-2)

- 1. State the working principle of potentiometer explain with the help of circuit diagram how the emf of two primary cells are compared by using the potentiometer
- 2. State Kirchhoff's law an electrical network. Using the Kirchhoff's laws deduce the condition for balance in the Wheat-stone bridge.
- 3. State the working principle of potentiometer explains with the help of circuit diagram how the potentiometer is used to determine the internal resistance of the

given primary cell.

- 4. Draw a graph showing variation of resistivity with temperature for a) nichrome b)silicon
- 5. A silver wire has a resistance of  $2.1\Omega$  at  $27.5^{\circ}$ c and a resistance of  $2.7\Omega$  at  $100^{\circ}$ c. Determine the temperature coeff. of resistivity of silver.
- 6. The sequence of bands marked on a carbon resistor is: Red, Red, Red, and Silver. Write the value of resistance with tolerance.
- 7. State gauss's theorem. Use it to find electric field due infinite line of charge. What is the effect on electric field, when charge density get double and distance between point and line of charge is half.
- 8. There is an isolated parallel plate capacitor of capacitance C charged to a potential difference V.If the separation between the plates is doubled, how the following quantities will vary:

Capacitance

Potential difference

Charge on the capacitor

Electric field inside the plates

Energy stored.

- 9. Solve all the Ncert questions of CURRENT ELECTRICITY.
- 10. Practical file work

#### **BIOLOGY**

Section- A (Worksheet)

- 1. What is triple fusion? Where and how does it take place? Name the nuclei involved in triple fusion.
- 2. Draw a labelled diagrams of following:

- i) T.S. of bilobed anther ii) Monocot embryo
- 3. What is menstrual cycle? Which hormones regulate menstrual cycle?
- 4. Give the functions of following:
- i) Corpus luteum
- ii) Endometrium
- iii) Sertoli cells
- iv) Acrosome
- v) Sporopollelin
- vi) Tapetal cells
- vii) Endosperm
- 5. Give the difference between spermatogenesis and oogenesis.
- 6. Trace the stages of development of an embryo till implantation.
- 7. Explain the following terms:
- a) Amniocentesis b) Vegetative propagation
- c) Apomixis d) Outbreeding devices
- e) Parthenocarpy
- 8. Differentiate between vasectomy and tubectomy.
- 9. Why is human placenta known as an endocrine organ?
- 10. Expand the following terms:
  - a) ZIFT b) IUD's
  - c) GIFT d) AI
- 11. Explain law of independent assortment with the help of an example.
- 12. Comment on semi-conservative nature of DNA replication.
- 13. Discuss role of following enzymes:
  - (a) Helicase
- (b) DNA polymerase
- (c) RNA polymerase
- 14. Give an account of post transcriptional modifications of an eukaryotic mRNA.

15. Can a child have bold group O if his parents have blood group 'A' and 'B'. Explain.

#### **Section- B (Practical File Work)**

- 1. To study mitosis in onion root tip cells from permanent slides.
- 2. To study pollen germination on a slide.
- 3. To study the effect of temperature and pH on the activity of salivary amylase on starch.
- 4. Study of pedigree charts of genetic traits.
- 5. Study of Mendelian inheritance.

## **Section-** C (**Project File Work** )

Prepare a project file on a topic given to you.

- 1. Gene therapy
- 2. rDNA Technology
- 3. Recombinant proteins
- 4. Microbes in human welfare
- 5. Global Warming
- 6. Mendelian Inheritance
- 7. Reproductive health
- 8. DNA fingerprinting
- 9. Microbes in sewage treatment
- 10. Bt cotton
- 11. Human Reproduction
- 12. Reproduction in flowering plants
- 13. Human Genome Project

### **MATHEMATICS**

## **Section-A (Worksheet)**

- 1. Show that f(x)=|x-5| is continuous but not differentiable at x=5.
- 2. Differentiate w.r.t x  $cos(tan\sqrt{x+1})$
- 3. Find  $\frac{dy}{dx}$  if  $x=t+\frac{1}{t}$  and  $y=t-\frac{1}{t}$
- 4. Find all points of discontinuity of the function  $f(t) = \frac{1}{t^2 + t 2}$  where  $t = \frac{1}{x 1}$
- 5. Find the value of p and q

$$F(x) = \begin{cases} x^2 + 3x + p & \text{if } x \le 1\\ qx + 2 & \text{if } x > 1 \end{cases}$$

Is differentiable at x=1.

- 6. Using Rolle's Theorem find the point of the curve y=x(x-4),  $x \in [0,4]$ , where the tangent is parallel to x axis.
- 7. If  $y = \tan^{-1}x$ , find  $\frac{d^2y}{dx^2}$  in terms of y alone.
- 8. Find  $\frac{dy}{dx}$  if  $x = 3 \cos \theta 2\cos^3 \theta$  y=  $3 \sin \theta 2\sin^3 \theta$
- 9. Given the function  $f(x) = \frac{1}{x+2}$ . Find the points of discontinuity of the composite function y = f(f(x)).
- 10. Show that the function  $f(x) = |\sin x + \cos x|$  is continuous at  $x = \pi$ .
- 11. Verify the Rolle's Theorem  $f(x) = x(x-1)^2$  in [0,1].
- 12. Find the points on the curve  $y = (\cos x 1)$  in  $[0,2\pi]$  where the tangent is parallel to x axis.
- 13. If  $x \sin(a+y) + \sin a \cos(a+y) = 0$ , prove that

$$\frac{dy}{dx} = \frac{\sin^2 (a+y)}{\sin a}$$

14. Find 
$$\frac{dy}{dx}$$
 sec(x+y)=xy

14. Find 
$$\frac{dy}{dx}$$
 sec(x+y)=xy  
15. Find  $\frac{dy}{dx}$  (x<sup>2</sup>+y<sup>2</sup>)<sup>2</sup>=xy

## **SOCIOLOGY**

**Instructions:** 

Use practical sheets for making the project file.

It contains 20 marks for final examination.

Suggested project:

- Cultural diversity (Roll no.1-3)
- Child labour (Roll no.4-6)
- Low Sex Ratio (Roll no.7-9)
- Family System (Roll no.10-13)
- Low literacy rate in India (Roll no.14-16) 5.
- Marginalized Group (Roll no.17 and 18)

The following Components should be covered.

- 1. Cover page
- 2. Index

- 3. Acknowledgement
- 4. Introduction
- 5. Statement of purpose
- 6. Research questions
- 7. Methodology
- 8. Presentation of Secondary evidences such as news paper, article, Magazines and so on.

# **Pol. Science**

## Worksheet -1

- 1) Write the full forms of: EU, ASEAN, OEEC, UNSC.
- 2) When were the following found: OEEC, The Council of Europe, European Economic Commity, European Union.
- 3) What are the aims of European Union?
- 4) What are the features of European Union?
- 5) Which factors brought about the formation of European Union?
- 6) How does EU exercise its economic, political, diplomatic and military influence?
- 7) Name the currency of EU.
- 8) Why was ASEAN formed?
- 9) When was ASEAN formed?
- 10) Name the five founding member countries of ASEAN.
- 11) What do you know about Bangkok Declaration?
- 12) What were the objectives of ASEAN?
- 13) What is the present membership of ASEAN?
- 14) Name the five new members of ASEAN.

- 15) What is the term 'ASEAN way' used for?
- 16) How is ASEAN different from EU?
- 17) How has broadened its objectives in 2003?
- 18) Name the three communities established by ASEAN.
- 19) What is the full form of ARF?
- 20) When was ARF formed? What work does it carry out?
- 21) What is FTA?
- 22) What is the ASEAN vision 2020?
- 23) Explain India's relationship with ASEAN countries.
- 24) With which two ASEAN countries has India signed FTAs?
- 25) Why is ASEAN primarily considered as economic association?
- 26) What work has been done by ASEAN Security Community?
- 27) What factors make China a strong economic power?
- 28) Which model of economy was adopted by China in 1949?
- 29) What were the benefits and shortcomings of the model?
- 30) Which major policy decisions were taken by Chinese leadership in the 1970's?
- 31) What were the new economic policies adopted by China in 70's, 80's, and 90's?

## Worksheet -2

# **TOPIC – Contemporary South Asia**

- 1) What factors make South Asia a turbulent region?
- 2) What is South Asia? Name the countries.
- 3) What factors contribute to the distinctiveness of the South Asian sub continent?
- 4) What is the nature of political systems of the South Asian countries Democratic or Non Democratic?
- 5) What is the attitude of South Asian people towards democracy?
- 6) What role has been played by military in Pakistan?
- 7) What factors have contributed to Pakistan's failure in building a stable democracy?
- 8) Bangladesh belonged to which country earlier? What was it made of?
- 9) Why did the people of Bangladesh want freedom?
- 10) What are the three principles of Bangladesh constitution?
- 11) Why was Sheikh Mujib killed?
- 12) Explain Bangladesh's struggle for democracy after its creation.
- 13) In which years was Bangladesh a part of Pakistan?
- 14) Name the political parties of the following:
  - a) Sheikh Mujib-ur Rehman
  - b) Ziaur Rehman
- 15) Name the Bangladesh military ruler who was made to step down in 1990.
- 16) Explain the struggle for democracy in Nepal.
- 17) What is termed as triangular conflict in Nepal's struggle for democracy?
- 18) What happened in April 2006 in Nepal.
- 19) Why was LTTE formed in Sri Lanka?

## Worksheet -3

# **TOPIC – International Organizations**

- 1) When was United Nations Organizations referred to as UN?
- 2) Why are international organizations formed?
- 3) Why was UN formed?
- 4) What is the full form of IMF?
- 5) What work is performed by IMF?
- 6) When was UN founded?
- 7) When did India join the UN?
- 8) Which international organization was formed after the First World War? Why did it fail?
- 9) How many original members were there in UN?
- 10) How many members did UN have in 2006?
- 11) Who is the head of UN? Name the post, the present head and his country.
- 12) Give full forms of the following UN agencies:
- a) WHO
- b) UNDP
- c) UNHRC
- d) UNHCR
- e) UNICEF
- f) UNESCO
- 13) What are the two basic kinds of reforms needed in UN?
- 14) What kind of reforms are needed in UN structures and processes?
- 15) How has the world seen change after the cold war?

16) Why are reforms needed in UN Security Council?
17) What new criteria have been suggested for being a member of Security Council? What are the problems in these criteria?
18) Write short notes on the following:
a) World Bank
b) WTO
c) IAEA
d) Amnesty International
19) What is the nature of the present membership of UN Security Council?
20) What is the VETO power?
21) What can be the effects of abolition or modification of VETO power?

# History

**Instructions-** The above mentioned projects will be done in the group of 2-3 students. Every group of students will choose any one topic to prepare their project.

## 1. Town Planning and Artifacts of The Harappan Civilization-

Prepare a project file on the topic 'Town Planning and Artifacts of The Harappan Civilization'. Mention how artefacts are an important source for studying ancient civilization. Write in detail the town planning of Harappan Civilization and how can you compare it with the modern towns and cities?

## 2. Through The Eyes of Travellers-

Write the experiences of travellers who visited the subcontinent. How their accounts help us to understand the history of that region during the medieval period. Compare and contrast the views of Ibn Batuta, Al Baruni and Francois Bernieron the basis of the books written by them.

## 3. Understanding Bhakti Sufi Movement in India-

Visit a Dargah and a Temple of your area. Collect information from there and prepare a project on the poets and saints of the Bhakti and Sufi Movement. How these saints tried to disseminate their ideas and how these ideas change the society.

### 4. Partition of 1947-

# **Accountancy**

(2018 - 2019)

## **Project Work (Comprehensive Project):**

Students will require collecting 30 to 35 transactions of any Partnership firm, journalising these transactions, Posted into Ledger accounts, prepare Trial Balance and then prepare Financial Statements (Trading account, Profit and Loss account and Balance Sheet) for calculating Gross Profit and Net Profit of firm.

#### **BUSINESS STUDIES**

## **Topic: Project Work on Principles of Management**

#### **Instructions:**

- Use practical sheets for making the project from your syllabus
- It contains 10 marks for final examination.
- Suggested project: Take any form of business organization relate its functioning with principles of management to show ther they follow Fayol's principles or not with detailed description of principles and company.

## **PUNJABI**

- 1. ਇਸ਼ਤਿਹਾਰ
- (i) ਤੁਸੀ ਸ਼ਹਿਰ 'ਜਿਮ' ਖੋਲਿਆ ਹੈ, ਉਸਦੀ ਮਸ਼ਹੂਰੀ ਲਈ ਇਸ਼ਤਿਹਾਰ ਤਿਆਰ ਕਰੋ।

- (ii) ਤੁਸੀ ਸ਼ਹਿਰ 'ਕੋਚਿੰਗ ਸੈਂਟਰ' ਖੋਲਿਆ ਹੈ, ਉਸਦੀ ਮਸ਼ਹੂਰੀ ਲਈ ਇਸ਼ਤਿਹਾਰ ਤਿਆਰ ਕਰੋ।
- (iii) 'ਗਰਮ ਕੱਪੜਿਆਂ ਦਿ ਸੇਲ' ਲਈ ਇਸ਼ਤਿਹਾਰ ਤਿਆਰ ਕਰੋ।
- 2. ਈ−ਮੇਲ
- (i) ਸ਼ਹਿਰ ਵਿੱਚ ਵੱਧ ਰਹੀ ਗੁੰਡਾਗਰਦੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਇਸ ਨੂੰ ਠੱਲ ਪਾਉਣ ਲਈ ਪੁਲਿਸ ਕਮਿਸ਼ਨਰ ਨੂੰ 'ਈ–ਮੇਲ' ਕਰੋ।
- (ii) ਸਕੁਲ ਵਿੱਚ ਪਾਣੀ ਦੀ ਸਪਲਾਈ ਸਬੰਧੀ ਆ ਰਹੀ ਮੁਸ਼ਕਿਲ ਲਈ ਪ੍ਰਿਸੀਪਲ ਨੂੰ 'ਈ–ਮੇਲ' ਕਰੋ।
- (iii) ਆਪਣੀ ਭੈਣ ਦੇ ਵਿਆਹ ਲਈ ਸੱਦਾ ਭੇਜਦੇ ਹੋਏ ਈ-ਮੇਲ ਲਿਖੋ।

## **ECONOMICS**

1. Project work on any topic of Micro economics.

## **Music Vocal (Practical)**

- 1. qwnpury ky iviBñn AMg EMv qwr ko imlwny kI iviD ky bwry myM ivvrx dyM[
- 2. rwg mwlkOMs kw pircX(ivvrx)Ævrilip,Awlwp qQw qwnyM ilKyM[
- 3. Jpqwl EMv iqlvwVw qwloM kw pircX dyM qQw Ekgux EMv dugux myM Tykw ilKyM[

# **Music Vocal (Theory)**

- 1. gRwm EMv muçCénw ky bwry myM ilKyM[
- 2. rwgoM ky vgIékrx ky sb isùwqoM kw vxén kIijE[
- 3. Qwt pùiq kI Awlocnw AOr ÆpÃtIkrx kryM[
- 4. sMgIq rœnwkr ky mu\$X AMgoM kw sM-yp myM vxén kIijE[
- 5. aÆqwd bVy gulwm AlI jI kw jIvn pircX dyM[

## **Painting**

- 1. Prepare ten sheets on life and nature with poster colours.
- 2. Prepare six sheets on still life. (Draw two or three object and drapery for background)

## **PSYCHOLOGY**

- The students are suppose to prepare one case profile which include developmental history of the subject using both interview, observation and quantitative (psychological testing) approaches.
- Take an Interview of at least three people from different occupation .Know their views on "Demonetization" in the form of Questionnaire:
  - Q1. Which community suffers most by Demonetization?
  - Q2. Do you think it has any positive impact?
  - Q3. What are its negative impacts?
  - Q3. What is the psychological impact of Demonetization on common man?
  - Q4. Will it put fake currency note on hault?
  - Q5. How it has impacted daily wage norms?

Note: You can either change the questions or can add the new ones also.

## **Physical education**

Practical 1 Modified AAHPER administration for all items

Practical 2 Procedure of Asanas benefits & contraindication for any two Asanas for each lifestyle disease

Practical 3 Any one game of your choice, labelled diagram of field & equipments (rules, Terminologies &skills)

# **Dance** 1. Write these definition \*Nritt \*Naritya \*Tandav \*Lasaya \*Upanga \*Partyanga 2.Distinctive aspects of kathak; (Gungroos & Costumes) 3. Give brief description of Sitara Devi Maharaj? 4.Explain all type of Indian classical dances with their pictures and brief them? 5. Write the term of Teen Taal 7& Jhaap Taal with their Notation? Aamad Tehai Tora Kavit Paran 6. Write Ganesh vandana or Stuti?

# **Computer Science**

- 1. Practical file: (Buy blank practical file from market preferably Classmate or Evergreen. Write SQL Queries with suitable data on right side with pen and draw results of queries in tabular form with pencil on left side.)
  - a. Write 20 SQL commands along with output based on any table/relation. (Create Table, Drop Table, Alter Table, Update, Set, Insert, Delete, Select, Distinct, from, where in, between, group by, having, order by, SQL functions: SUM(), AVG(), COUNT(), MAX(), MIN())
  - **b.** Write any five C++ programs on Array (One Dimensional and two dimensional : Sorting, searching, deletion, insertion) Write any five C++ programs on Class(es) and objects

# **Home-Science**

## 1. Human Development: Life Span Approach (Part II)

#### Activities -

- Identify the problems of adjustment of adolescents with the help of a tool (group activity) and make a report.
- Spend a day with an aged person and observe the needs and problems. Write a report.
- List and discuss 4/5 areas of agreement and disagreement of self with
  - Mother
  - Father
  - Siblings
  - Friends
  - Teacher

## 2. Nutrition for Self, Family and Community

#### Activities -

- Record meal of a day for an individual and evaluate it against principles of balanced diet
- Modify and prepare a dish for any one physiological condition
  - Fever
  - o Diarrhoea
  - Constipation
  - Jaundice

- o Hypertension
- Diabetes
- o Pregnancy
- Lactations
- Old age
- o Infants
- Identify food adulteration: visual and using methods
  - Turmeric
  - o Chana Dal
  - o Bura Sugar
  - o Milk
  - Tealeaves or Coriander
  - Black Paper Seeds
- Prepare ORS Solution

## 3. Money Management and Consumer Education

- Collect and fill savings account in Post Office and Bank
- Fill up the forms: Withdrawal, Deposit slips, cheque and paste in the file
- Collect labels of any three products and compare them with mandatory requirements
- Prepare one label each of any three household items bearing ISI, FPU, Agmark