**INTERNAL ASSESSMENT**

**CLASS X ---20 MARKS**

**ENGLISH**

**Prepare a project on any two topics.**

1. **Write a summary of the poem *‘I know why the caged bird sings’.* Give a critical**

**Appreciation of the poem.**

**OR**

**Research the life of *Maya Angelou* and find out why she could relate to a caged bird?**

1. **Write the plot structure of the play *‘The Merchant of Venice’*  :**

**Two main plots**

**Bond Story**

**The lottery of Caskets**

**Two sub-plots**

**The Ring Episode**

**OR**

**Write the Character Sketch of Antonio and Portia.**

1. **The story *‘My Greatest Olympic Prize’* reflects the theme of true sportsmanship.**

**Lutz Long proved that the important thing in Olympics games is not winning but**

**Taking part, not conquering but fighting well. Discuss the above statement by closely**

**Referring to the text.**

**HINDI**

**fgUnh O;kdj.k**

 **fgUnh ifj;kstuk&**

fp= ys[ku] OkkD;ka’k ds fy;s ,d ’kCn ¼20 okD;ka’k½] v’kq) ’kCnksa dks ’kq) djuk ¼20’kCn½

 **lkfgR;&** fdlh ,d ys[kd dk thou ifjp;] jpuk;sa] lkfgfR;d fo’ks"krk;sa-

 **¼**izsepUn] t;’kadj izlkn] fl;kjke”’kj.k xqIr] gfj”’kadj ijlkbZ**½**

**PHYSICS**

**Prepare a project on the following topics listed according to the Roll Numbers:**

1. ***Force:* Types of motion, Torque, couple, Equilibrium of bodies and its kind,**

**Principle of moments, C.O.G. and uniform circular motion. (Roll No. 1-11)**

1. ***Machines:* Functions, Uses. Levers and its types(with derivation) and combination**

 **Of pulleys. (Roll No. 12 -22)**

1. ***Refraction of Light:* Laws of Refraction, Principle of reversibility, Refraction through Rectangular glass slab and prism(diagram and its derivation), Real and apparent depth,**

**Total internal reflection, Types of lens and their technical terms, ray diagrams of image**

**Formed by concave and convex lens. (Roll No. 23-33)**

1. ***Current and Electricity*: Concept of current, Electric potential and Potential difference,**

**Concept of resistance, Ohm’s law with derivation and graph, Difference between**

 **Resistance and resistivity, E.m.f., terminal voltage, internal resistance, combination of**

 **Resistors (Series and parallel- with derivation). (Roll No. 34-44)**

1. ***Radioactivity*: Structure of Atom and Nucleus, Isotopes, Isobars, Isotones, Radioactivity. Alpha**$(α)$**, Beta (**$β$**) and gamma (**$γ$**) radiations, their properties and differences, Alpha**$(α)$**, emission, Beta (**$β$**) emission and Gamma (**$γ$**) emission reactions. Harmful effects and safety precautions. Background radiations. (Roll No. 45-55)**

**Note: Project file must not contain less than 15 pages and the drawings/ figures must be**

 **neat and clean with proper ratio.**

**CHEMISTRY (SECTION A)**

**Prepare a project on the following topics listed according to the Roll Numbers:**

1. **Pollution (Roll No. 1-15)**
2. **General Organic compounds, their structure and their importance. (Roll No. 16-30)**
3. **Importance of Chemistry in Medicine and Cosmetics. (Roll No. 31-49)**

**CHEMISTRY (SECTION B)**

**Prepare a project on the following topics listed according to the Roll Numbers:**

 **TOPICS ROLL NUMBERS**

1. **Preparation of boot Polish 1, 11, 21, 31, 41, 51**
2. **Preparation of Talcum Powder 2, 12, 22, 32, 42, 52**
3. **Preparation of Varnish 3, 13, 23, 33, 43, 53**
4. **Water pollution 4, 14, 24, 34, 44, 54**
5. **Air Pollution 5, 15, 25, 35, 45, 55**
6. **Soil Pollution 6, 16, 26, 36, 46**
7. **Noise Pollution 7, 17, 27, 37, 47**
8. **Any 1 Ancient Medicinal Plant 8, 18, 28, 38, 48**
9. **Nucleic Acid RNA & DNA 9, 19, 29, 39, 49**
10. **Soaps and Detergents 10, 20, 30, 40, 50**

**BIOLOGY (SECTION A)**

**Prepare a project on any of the following topics:**

1. **Genetics (Mendel’s laws, sex- linked inheritance, genetic disorders).**
2. **Eyes (Structure and function, eye diseases).**
3. **Transpiration (Ganong’s potometer)**
4. **Pollution(Soil pollution, air pollution, water pollution and noise pollution)**

**Note: Also draw diagrams related to given topics and project should have**

 **atleast 15 pages.**

**BIOLOGY (SECTION B)**

**Prepare a project on any of the following topics:**

1. **Genetics: (Mendel’s laws, sex- linked inheritance, genetic disorders).**
2. **Structure of Chromosomes, cell cycle and cell division.**
3. **Transpiration: (Ganong’s potometer)**
4. **Absorption by roots:**

**(Osmosis, Endosmosis, Exosmosis, Turgidity, Flaccidity, Root Pressure )**

**Note: Also draw diagrams related to given topics and project should have**

 **atleast 15 pages.**

**HISTORY AND CIVICS**

**Prepare a project on any two topics.**

**Project I is compulsory.**

1. **Make a PowerPoint presentation on India’s Independence and Partition.**

***Maximum 10 slides, minimum 6 slides***

***First slide –cover slide, last slide – thanks slide***

***You can add audio, video or pictures to make your project interesting.***

1. **Create a Picture Gallery recording the Independence of India 1947. Also prepare**

**A short write-up on it.**

**OR**

1. **Highlight the work and achievements of Nobel Laureate –Dr. Kailash Satyarthi.**

**GEOGRAPHY**

**Prepare a project on the following topics:**

**Project and case study in Rishikesh**

1. **Climate: to survey the weather report. 1 to 10**
2. **Water resources: To survey the sources and means of water. 11 to 20**
3. **Agriculture: Food crops: To survey the food crops. 21 to 30**
4. **Agro based Industry: To survey the sugar industry or a bakery. 31 to 40**
5. **Waste Management: To survey the Waste Management system**

**Of Rishikesh. 41 to 50**

**COMPUTER (SECTION A &C)**

Q.1. **Write a program in Java for swapping of two integer number without third variable.**

**Q.2. Write a program in Java to check the input year (four digit like 1984) is a leap year or not.**

**Q.3. Using if-else statement, write a program in Java to calculate the grade as per given below-**

 **Percentage Marks - Passed with star**

 **75-100 - Passed with star**

 **60-75 - First Division**

 **40-60 - Second Division**

 **Less than 40 - failed**

**Q.4. Write a program in Java to check and print the input integer number is even or odd.**

**Q.5. Write a program in Java using switch and break statement which accept a integer number and display corresponding day.**

$\left[\begin{array}{c}Hint Input 1 Output :Sunday\\ Input 3 :Tuesday\end{array}\right]$

**Q.6. Write a program in Java to convert temperature from Fahrenheit to Celsius and display the temperature.**

 **[Hint : C/100=**$\frac{F-32}{180}$**]**

**Q.7. Write a program in Java to calculate the no. of vowels and no. of consonant in a input string line.**

**Q.8. Write a program in Java to check and print the largest no. among three input integer no.**

**Q.9. Write a program in Java to check the input character is in lower case or upper case.**

**COMPUTER (SECTION B)**

**TO BE SUBMITTED ON 12th JULY,2019 SUBJECT- COMPUTER APPLICATIONS CLASS- X B**

**Q1. W.A.P. to enter the marks the marks of a student the marks of a student as well as his code. If code is 1 give him 50 Bonus marks. Print the marks. Use simple if statement.**

**Q2. W.A.P. to enter two numbers and print the smaller number between them using if..else statement.**

**Q3. W.A.P. to enter the sales of an employee and calculate his commission given on the following conditions: If sales is 30,000 or more, then commission is 5% otherwise no commission. Use if..else statement.**

**Q4. W.A.P. to enter three numbers and print the largest among them using nested if statement.**

**Q5. W.A.P. to enter the average marks of a student and print his grade given on the following conditions. Use else..if ladder.**

 **Average Marks Grade**

 **80 and above Honours**

 **60 to 79 First Division**

 **50 to 59 Second Division**

 **40 to 49 Third Division**

 **0 to 39 Fail**

**Q6. Write a menu driven program to enter the temperature in Celsius and get it converted into Fahrenheit and vice-versa, as per user’s choice. Use switch case statement.**

**Q7. Write a menu driven program using switch case statement to calculate and display the area of circle, square and rectangle as per user’s choice.**

**Q8. Write a menu driven program using switch case statement to calculate and display the volume of cube, sphere and cuboid as per user’s choice.**

**Q9. W.A.P. to enter the average marks of a student, calculate his index and print his grade as per his index given on the following conditions. Use switch case statement:**

 **Index = average marks/ 10;**

 **Average Marks Grade**

 **80 and above Honours**

 **60 to 79 First Division**

 **50 to 59 Second Division**

 **40 to 49 Third Division**

 **0 to 39 Fail**

**Q10. The relative velocity of 2 trains travelling in opposite directions is calculated by adding the velocities. In case the trains are travelling in same direction, the relative velocity is the difference between their velocities. Write a menu driven program using switch case statement to input the velocities and length of trains. Calculate the relative velocity and time taken to cross each other.**

**COMMERCE (SECTION C)**

**Prepare a project on any two topics.**

1. **20 Taglines of different advertisements.**
2. **Methods used by the company for training and appraisal of its Managers.**
3. **Procedure for opening a savings bank account in any commercial bank**

**In your city.**