**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, Beta () and gamma () radiations, their properties and differences, Alpha, emission, Beta () emission and Gamma () 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.**

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

**[Hint : C/100=]**

**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.**