**MILESTONE ACADEMY**

 **VACATION HOME-WORK**

**CLASS – X SUBMISSION DATE – 17.06.19**

**PC/MS/2019-20/X/015**

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**ENGLISH –**1.Make an illustrated report or PPT on “The Diary of a Young Girl”

 2. Article Writing :- “India A Heaven Tourism”.

**HINDI** – vuqPNsn fyf[k, %& 1- ijh{kk dk Hk; 2- ehfM;k ds c<+rs pj.k

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**MATHS** –

Q1. Use Euclid’s division algorithm to find HCF of 56 and 814. Also express in the form of 56m + 814n ,

 where m and n are integers.

Q2. The HCF of two numbers is 23 and their LCM is 1449. If one of the numbers is 161. Find the other.

Q3. Find the largest number that divides 626, 3127 and 15628 leaving remainder 1, 2 and 3 respectively.

Q4. For any positive integer n, prove that n3 – n is divisible by 6.

Q5. During a morning walk, three persons step off together and their steps measure 40cm, 42cm and 45cm

 respectively. What is the minimum distance each should walk so that each can cover the same distance

 in complete steps? Also find the number of steps of each person.

Q6. Prove that is irrational number.

Q7. If α and β are the zeros of polynomial 3x2+2x-6, then find the value of (i) α – β (ii) α2+ β2 (iii) α3 + β3

(iv) + .

Q8. If α and β are the zeros of the quadratic polynomial P(x) = 2x2 – 5x + 7. Find the quadratic polynomial

 whose zeroes are (2α + 3β) and (3α+2β).

Q9. The polynomials ax3 + 3x2 -3 and 2x2-5x +a when divided by (x-4) leaves remainders R1 and R2

 respectively then find the value of ‘a’ if 2R1- R2 =0.

Q10. If the polynomial P(x) = x4 -3x2 +5x +3 is divided by x2 – 2 and remainder is ax + b. What will be the

 quotient? Also find the values of a and b.

Q11. Find the value of K for which the following pair of linear equations have infinitely many solutions

 2x + 3y = 7 , (K-1)x + (K + 2)y = 3K

Q12. Solve by substitution method x + y =3 and 2x + 5y =12. Hence find the value of m for which y = mx + 5.

Q13. Solve by elimination method : + = 10. =

Q14. Solve by cross multiplication method :

 ,

Q15. Aman takes 2 hrs more than Nishant to cover a distance of 30 km. If a man doubles his speed, he would

 take 1 hour less than Nishant. Find their speed of walking.

**SCIENCE** – **Chemistry** – Make a project on Chapter -2 - Acid, Bases and Salt

 Chapter – 1 Chemical Reactions and Equations (back exercise)

 **Physics** – Numericals on Reflection & Refraction (from back exercise).

 **Biology** – Draw well labelled diagram of Alimentary canal /Respiratory System/ Heart/

 Excretory System/ Exchange of gases in a full size chart paper.

**S.SC** – History – Map Pointing L - 3 Nationalism in India. (Refer to History Assignment)

 Geo. – Prepare a chart on L – 3 Water Resources (Major Dams or Rainwater Harvesting System).

 Civics – L – 3 Democracy and Diversity (concept map)

 Eco – Make a Project on “Consumer Awareness” (use L – 5 Consumer’s Right for reference)

**COMPUTER** - Project 1 – In Database. (Submit hard copy and soft copy both)

Q. 1 The Blood Bank maintains data about blood donors who have donated blood in the past two years.

 In relation to this, the table below shows the attributes ID, Donor Name, Donor Mobile, Gender, Age, and Blood Group for the database, their description, and their properties. Create such a table in the Blood Bank database. (Submit hard copy and soft copy)

|  |  |  |
| --- | --- | --- |
| **Field Name**  | **Data Type** | **Description**  |
| ID  | Number | The serial number of donor |
| Donor Name  | Varchar (50) | Name of the donor |
| Donor Mobile No. | Integer | Mobile number of the donor |
| Gender  | Char | Gender as M or F |
| Age  | Number | Age of the donor |
| Blood Group  | Char | Blood group of the donor |

Now carry out the given functions on the table:

a. Create a table using the design view and enter 15 records in the table.

b. Create a query to display all the records of donors with ‘O+’ *Blood Group and Donor’s name.*

c. Create a query to display all the records of donors in ascending order of gender, i.e.,

 the records where *Gender* is ‘F’ should appear first.

d. Create a report to display all the records ordered by *Blood Group*.

 OR

Q.2 A school maintains data about the teachers. The table having the attributes are T Code,

 T name , Gender, Rank, Address, Phone no .

|  |  |  |
| --- | --- | --- |
|  Field name |  Data type |  Description |
|  T code | Number |  This is a code number to be set a primary key  |
|  T name | Varchar |  Name of the teacher |
| Gender | Char | Gender as male or female |
| Rank | Char | Rank of the teacher is PGT, TGT,PRIMARY |
| Address | Varchar | Address of the teacher |
| Phone no. | Number |  Mobile or phone no. of the teacher |
| Date of Joining  | Date/Time |  |

Now carry out the given functions on the table:

a) Create table with design view and enter 15 records .

b) Create a query to display records of TGT Teacher, T name and Phone no.

c) Create a query to display the record of male teachers, Rank and T code.

d) Create a report using report design female teachers, T name and Address.

**CREATIVE EXPRESSION**-**.**

Record and write the conversation between you and your friend about field trip (Sahas camp) or your experience in (Yes course). That you have done from your school.

**For Eg. :- Written conversation**

Child :- Sir please brief about the tour packages for different cities.

Agent :- Well ! Just come down to our office and I will give you all the details.

**LIFE SKILLS-** Yash is fascinated by cars and hopes to be an automobile engineer one day. He wants to opt for science but his businessman father feels that he should opt for commerce and take care of family business of hotel and restaurant as he grows up. He is good at mathematics and science but lacks concentration and likes doing lots of things all at the same time. His father feels that he won’t be successful in life if he opts for science and is very upset with him. Yash feels that his father is imposing himself and nags all the time! What ideas would you suggest to the father to handle the situation and improve the inter-personal relationships between father and son. What would you suggest to Yash?

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162