

**General Instructions**

- This question paper is divided into two sections.
- Attempt all questions from Section A and any four questions from section B.
- The intended marks for questions or parts of questions are given in brackets [].

**Section A (40 Marks)**  
**Attempt all questions.**

**Question 1**

[5 x 2 = 10]

- (a) What is escape sequences? Also give some examples.
- (b) State the java concept that is implemented through:
  - (i) A super class and a subclass
  - (ii) The act of representing essential without including background details.
- (c) What is an array? Write a statement to declare a double array of 20 elements.
- (d) What is the use of the keyword import?
- (e) What do you understand by 'Fall through'? Give an example.

**Question 2**

[5 x 2 = 10]

- (a) State the difference between entry controlled loop and exit controlled loop.
- (b) Write two advantages of using functions in a program.
- (c) Which OOP principal implements function overloading?
- (d) Differentiate between Call by value and call by reference.
- (e) If  $x [ ] = \{ 10, 13, 2, 98, 23, 7 \}$ ; what are the value of p and q?
  - (i)  $p = x.length;$
  - (ii)  $q = x[3] + x[1] * x[5];$

**Question 3**

[10 x 2 = 20]

- (a) What will be the output of the following code:

```
double x = -5.93, y = -2.39;
System.out.println(Math.abs(Math.min(x, y)));
System.out.println(Math rint(Math.ceil(x)));
```

- (b) Write the output for the following code snippet:

```
int a [ ] = new int [5];
a[0] = 4;    a[1] = 8;    a[2] = 7;    a[3] = 12;    a[4] = 3;
```

- (i) `System.out.println(a[2 + 1]);`
- (ii) What is the total size of array a.
- (c) What is the value of x in given expression? also show the steps.

```
int x = 12; ;
x - = ++x * (x--) % 5 - --x;
```

- (d) Give the output of the following program segment and also mention the number of times the loop is executed?
- ```

int i , j;
for( i = 6 , b =4; a <= 24; a = a+6)
{
    if(a%b == 0)
    break;
}
System.out.println(i);

```
- (e) Predict the output:
- ```

int a[4] = {6, 2, 5, 9};
int S=0;
for(int i=0; i<=1; i++)
{
    S = a[i] + a[3 - i];
    System.out.println(S);
}

```
- (f) Give the output for the following code:
- ```

String A = "36" , B = "200";
String C = A + B + "100";
int x = Integer.parseInt(A);
int y = Integer.parseInt(C);
int z = x + y;
System.out.println("Result 1 = "+C );
System.out.println("Result 2 = "+z);

```
- (g) Give the output for the following code:
- ```

String S1 = "AMAN";
String S2="AMIT";
System.out.println(S1.compareTo(S2));
System.out.println(S1.equals(S2));

```
- (h) Write any four primitive data type with its storage capacity.
- (i) Write the output for the following code snippet:
- ```

String s ="Today is Test";
System.out.println(s.indexOf('s'));
System.out.println(s.substring(0, 7) + " " + "Holidays");

```
- (j) Identify the literals listed below:
- (i) 0.5
  - (ii) "A"
  - (iii) 'a'
  - (iv) False

## Section B (60 Marks)

Attempt any four questions from this section.

The answer in this Section should consist of the Programs in either Blue J environment or any program environment with Java as the base.

Each program should be written using Variable description/Mnemonic Codes so that the logic Of the program is clearly depicted.

Flow-Charts and Algorithms are not required.

### Question 4

[15]

Define a class named movieMagic with the following description:

Instance variable / data members :

int year - to store the year of release of a movie.  
 String title - to store the title of the movie  
 float rating - to store the popularity rating of the movie  
 (Minimum rating = 0.0 and maximum rating = 5.0)

Member methods :

movieMagic( ) - Default constructor to initialize numeric data members to 0 and String data member to “ ”.  
 void accept( ) - To input and store year, title and rating.  
 void display( ) - To display the title of a movie and a message based on the rating as per the table below.

| Rating     | Message to be displayed |
|------------|-------------------------|
| 0.0 to 2.0 | Flop                    |
| 2.1 to 3.4 | Semi-hit                |
| 3.5 to 4.5 | Hit                     |
| 4.6 to 5.0 | Super Hit               |

Write a main method to create an object of the class and call the above member methods.

### Question 5

[15]

**Design a class to overload a function check( ) as follows:**

(1) void check(String Str) – to convert the word in to piglatin word.

In Piglatin a word such as KING becomes INGKAY, TROUBLE becomes OUBLETRAY as so on. The first vowel of word becomes the starting of the translation and proceeding letter being shifted towards the end and followed by AY. Word that begins with a vowel is left unchanged.

Sample Input : KING

Sample Output : INGKAY

(2) void check(String S1, String word) – to find number of times the word is present in given string S1.

If I enter 'THE' and 'THE BIG FAT THE ODORE', then the computer should display 2.

Sample Input: S1 = THE BIG FAT THE ODORE  
 WORD= THE

Sample Output: 2

**Question 6****[15]**

Write a menu driven program to define the functions for each of the following task. The task should be performed according to the user's choice.

- (i) Total number of digits present in it
- (ii) Total number of small letters and capital letters present in it.
- (iii) Total number of alphabets used in it.
- (iv) Total number of special character used in it.
- (v) Total number of vowels presents in it.
- (vi) Total Number words present in that sentence.

**Question 7****[15]**

The annual examination results of 50 students in a class are tabulated as follows. (Using array)

| Roll No | English | Maths | Computer |
|---------|---------|-------|----------|
| .....   | .....   | ..... | .....    |
| .....   | .....   | ..... | .....    |

Write a program to read the data, calculate and display the following:

- (i) Average mark obtained by each student.
- (ii) Print the roll number who gets highest average marks in the class.
- (iii) Print the roll number and average marks of the students whose average mark is above 80.
- (iv) Print the roll number and average marks of the students whose average mark is below 40.

**Question 8****[15]**

Write a program to calculate the sum of all the prime numbers between the range of 1 and 100.

**Question 9****[15]**

Write a menu driven program to perform following operation

- (i) To find and display the sum of the series given below:

$$S = \frac{a+1}{3} + \frac{a+2}{5} + \frac{a+3}{7} + \frac{a+4}{9} + \dots + \text{to } n$$

- (ii) To display the below pattern:

```

1 2 3 4 5
2 2 3 4 5
3 3 3 4 5
4 4 4 4 5
5 5 5 5 5

```

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Biology**

**F.M-80**  
**Time: 2 hrs.**

**SECTION-A [40 MARKS]**  
**ATTEMPT ALL QUESTIONS FROM THIS SECTION**

**1a. The statements given below are False. Rewrite the correct form of the statement by changing the word which is underlined.** [5]

- i. Alpha cells of pancreas secrete Insulin.
- ii. Deafness is caused due to the rupturing of the Pinna.
- iii. Gyri and Sulci are the folds of Cerebellum.
- iv. Salivation at the sight of food is a natural reflex action.
- v. The point of contact between two neurons is known as Impulse.

**b. State the exact location of:** [5]

- i. Myelin sheath
- ii. Islets of Langerhans
- iii. Adrenal gland
- iv. Ciliary body
- v. Semi-circular canal

**c. Given below are sets of five terms each. Rewrite the terms in correct order in a logical sequence.** [5]

- i. Cochlea, Malleus, Pinna, Incus, Stapes.
- ii. Receptor, Spinal cord, Effector, Motor neuron, Sensory neuron.
- iii. Fibrin, Platelets, Thromboplastin, Fibrinogen, Thrombin.
- iv. Caterpillar, Frog, Snake, Owl, Green leaves.
- v. Interphase, Anaphase, Prophase, Telophase, Metaphase.

**d. Name the following:** [5]

- i. A fluid that occupies the larger cavity of the eyeball behind the lens.
- ii. The membrane that disappears during late prophase.
- iii. An antiseptic substance present in tears.
- iv. The fluid present between the layers of meninges.
- v. Outermost transparent layer seen in front of the eyeball.

**e. Rewrite and complete the following sentences by inserting the correct word in the space indicated.** [5]

- i. ----- is the scientific name of garden pea, which Mendel used for his experiments.
- ii. Oxygen combines with hemoglobin present in RBC and forms -----.
- iii. ----- artery carries deoxygenated blood from heart to lungs.
- iv. The pigment responsible for green color of leaves is -----.
- v. Mendel's ----- law is often known as purity of gametes.

**f. Give the biological reason for:** [5]

- i. Pituitary gland is also known as the master gland.
- ii. Urine is slightly thicker in summer than in winter.
- iii. We cannot distinguish colours in moonlight.
- iv. Balsam plants wilt during midday even if the soil is well-watered.
- v. The leaves of Xerophytes are reduced or modified to form spines.

**g. Differentiate between the following pairs with reference to what is asked in brackets:** [5]

- i. Cerebrum and Spinal cord. [Arrangement of nerve cells]
- ii. RBC and WBC [shape]
- iii. Optic nerve and Auditory nerve [function]
- iv. Mitosis and meiosis. [ number of daughter cells]
- v. Rod and Cone cells. [Pigment present]

**h. The diagram given below represents a certain stage of mitosis:** [5]

- i. Identify the stage of cell division.
- ii. Name the parts labeled “a” and “b”.
- iii. What is the unique feature observed in this stage?
- iv. How many daughter cells are formed from this type of cell division?
- v. Draw a well labeled diagram of the stage that appears before it.

**SECTION B (40 MARKS)**

**Attempt any four questions from this section**

**Q2a. The diagrams given below are cross-section of blood vessels:** [5]

- i. Identify the blood vessels A,B and C.
- ii. Name the parts labeled 1 to 3.
- iii. Name the type of blood that flows through “A”.
- iv. Mention one structural difference between A and B.
- v. In which of the blood vessels does exchange of gases actually take place?

**b. Answer the following questions:** [5]

- i. Draw a well labeled diagram of Neuron showing the following parts: Node of Ranvier, Perikaryon, axon, dendrites and myelin sheath. [3]
- ii. State the function of sensory neuron and a motor neuron. [1]
- iii. What is nerve made up of? [1]

**Q3a. Given below is a diagram depicting a defect of the human eye. Study the same and then answer the questions that follow:** [5]

- i. Identify the defect.
  - ii. Name the parts labeled 1,2 and 3.
  - iii. Give two possible reasons for this eye defect.
  - iv. Draw a labeled diagram to show how the above mentioned defect is rectified.
- b.
- i. Explain the term “Reflex Action”. [1]
  - ii. Expand the following abbreviations: [2]  
(a) FSH (b) DNA
- c. State whether the following actions are “voluntary action, simple reflex or conditioned reflex: [2]
- i. Blinking of eyes.
  - ii. Cleaning the table
  - iii. Playing on the keyboard.
  - iv. Salivation when food is put in the mouth.
- Q4a. The diagram given below represents the structure found in the inner ear. Study the same and then answer the questions that follow: [5]

- i.. Name the parts labeled A,B and C.
  - ii. Name the part of the ear responsible for transmitting impulses to the brain.
  - iii. Name the fluid present in the inner ear.
  - iv. Name the part labeled above which is responsible for:
    - a. Static balance
    - b. Dynamic balance
    - c. Hearing
  - v. Name the audio receptor cells which pick up vibrations.
- b. Name the hormone responsible for the following functions: [5]
- i. Increase in heart beat.
  - ii. Maintains glucose level in the blood
  - iii. Regulates basal metabolism.
  - iv. Ossification of bones.
  - v. Prepares the body during emergency.
  - vi. Converts glucose to glycogen.
  - vii. Responsible for normal growth of the whole body.
  - viii. Regulates the functioning of the male and female reproductive organs.
  - ix. Increased absorption of water in the kidneys.
  - x. Increased blood supply to muscles.
- Q5a. Given below is the outline of the human body showing the important glands: [5]

- i. Name the glands marked 1 to 4.
- ii. Name the hormone secreted by part 2. Give one important function of this hormone.
- iii. Name the endocrine part of the part numbered 3.
- iv. Name the gland that secretes Oxytocin hormone.
- v. Why is the part labeled "1" called the master gland? Which part of the forebrain controls the gland labeled "1"?

b. The diagram of an apparatus given below demonstrates a particular process in plants. Study the same and answer the questions that follow: [5]

- i. Name the apparatus.
- ii. Which phenomenon is demonstrated by this apparatus?
- iii. Explain the phenomenon mentioned in {ii} above.
- iv. State two limitations of using this apparatus.
- v. What is the importance of the air bubble in the experiment?
- vi. Name the structures in a plant through which the above process takes place.

Q6a. The diagram below represents the human heart in one phase of its functions. Study the diagram carefully and answer the questions that follow: [5]

- i. Name the phase.
- ii. Which part of the heart is contracting in this phase? Give reason.
- iii. Name the parts labeled 1 to 4.
- iv. Which type of blood flows through "2"?
- v. State the function of the part numbered "5".
- vi. Name the membrane that covers the heart.

b. Explain the following terms: [2]  
i. Mutation            ii Pulse

c. In a homozygous plant round seeds [R] are dominant over wrinkled seeds [r]: [3]  
i) Draw a Punnett square to show the gametes and offspring when both the plants have Heterozygous round seeds [Rr].  
ii. Mention the phenotype and genotype ratios of the off springs in F<sub>2</sub> generation.  
iii. Name the sex chromosomes in human males and females.





**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Chemistry**

**F.M-80**  
**Time: 2 hrs.**

**Section A (40 Marks)**  
**All questions are compulsory**

1. Choose the correct option. [1X5=5]
- I. The vapour density of carbon dioxide is
- 32
  - 16
  - 44
  - 22
- II. The ratio between the number of molecules in 2g of hydrogen and 32g of oxygen is-
- 1:2
  - 1:0/01
  - 1:1
  - 0.01:1
- III. A colourless solution which gives a precipitated with HCl.
- AgNO<sub>3</sub>
  - NH<sub>4</sub>Cl
  - Aquaregia
  - Zn
- IV. The promoter used during Haber's process is
- Molybdenum
  - Copper
  - Zinc
  - Lead
- V. The compound responsible for the brown ring during the brown ring test of nitrate ion.
- Nitrosoiron (II) sulphate
  - Iron(III) Chloride
  - Chromium sulphate
  - Lead(III) Chloride
2. Name the following [1X5=5]
- The catalyst used in the manufactured of nitric acid by Ostwald's process.
  - A neutral oxide of carbon formed when fuming acid reacts with concentrated sulphuric acid.
  - A black coloured substance formed when sugar is dehydrated.
  - The gas obtained when rock salt react with conc sulphuric acid.
  - Volume of 1 gm of any gas occupied at S.T.P.

3. a) Galena, when roasted react with according to the following equation:-  

$$2\text{PbS} + \text{O}_2 \rightarrow 2\text{PbO} + \text{SO}_2$$
 Calculate: [2X3=6]
- the weight of PbO formed when 478 g of PbS is roasted.
  - The weight of PbS required to produce 5.6 Litres of SO<sub>2</sub> at S.T.P
  - The number of moles of oxygen required at the same time. (Pb=207)
- b) A hydrocarbon of vapour density 15 has 80% carbon. Calculate the molecular formula of the hydrocarbon. [4]
4. Complete and balance the following reactions--- [1X5=5]
- $\text{Mg} + \text{HCl} \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ .
  - $\text{NaCl} + \text{H}_2\text{SO}_4 \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ .
  - $\text{C} + \text{HNO}_3 \rightarrow \underline{\hspace{2cm}}$ .
  - $\text{FeCl}_3 + \text{NH}_4\text{OH} \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ .
  - $\text{NH}_3 + \text{HCl} \rightarrow \underline{\hspace{2cm}}$ .
5. Match the following [5]
- | Column I                                  | Column II                              |
|-------------------------------------------|----------------------------------------|
| i. Hydrogen Sulphide                      | a) extreme solubility                  |
| ii. Carbon dioxide                        | b) drying agent                        |
| iii. Sulphur dioxide                      | c) fumes in moist air                  |
| iv. Hydrogen                              | d) gold and platinum                   |
| v. Aqua-regia                             | e) greenish/yellow colour              |
| vi. Chlorine                              | f) calcium oxide                       |
| vii. Conc. H <sub>2</sub> SO <sub>4</sub> | g) colourless gas burns with pop sound |
| viii. Hydrogen chloride gas               | h) rotten egg smell                    |
| ix. Fountain experiment                   | i) colorless, odourless gas            |
| x. Drying agent for NH <sub>3</sub>       | j) burning sulphur smell               |
6. What do you observe when [1X5=5]
- Moist blue litmus is introduced in the jar of chlorine?
  - Excess of chlorine gas is reacted with ammonia gas.
  - Dilute sulphuric acid reacts with magnesium.
  - Nitric acid comes in contact with atmosphere.
  - Nitrogen dioxide is passed through acidified freshly prepared ferrous sulphate solution.
7. a) Define Avogadro's law. [2]
- b) Calculate the percentage of sodium in sodium aluminium fluoride (Na<sub>3</sub>AlF<sub>6</sub>).  
 Correct to the nearest whole number [2]
- c) Name the fertilizer formed when carbon dioxide is reacted with ammonia. [1]

**Section B (Optional)****Attempt only 4 (All question carry equal marks [10])**

1. a) Using sodium hydroxide solution, how would you distinguish ammonium sulphate from sodium sulphate.  
 b) In the laboratory preparation of nitric acid, the mixture of concentrated sulphuric acid and sodium nitrate should not be heated very strongly above 200 deg C. why?  
 c) Distinguish between acid and dilute hydrochloride acid (using barium chloride solution).  
 What happens when magnesium nitride is treated with warm water.  
 d) What happens when magnesium nitride is treated with warm water?  
 e) How many molecules are present in 16 grams of sulphur dioxide > (take Avogadro no =  $6 \times 10^{23}$ )
2. a) write balanced equation for the action of dil hydrochloric acid on sodium sulphide.  
 b) Calculate the mass of ammonia that can be obtained from 21.4 g of  $\text{NH}_4\text{Cl}$  by the reaction  

$$2\text{NH}_4\text{Cl} + \text{Ca}(\text{OH})_2 \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O} + 2\text{NH}_3$$
  
 c) What will be the volume of ammonia formed when measured at STP in the above example?  
 d) A substance 'A' was heated with slaked lime and a gas 'B' with a pungent smell was obtained.  
 Name the substances 'A' and 'B' and give a balanced equation.  
 e) What is passive iron? How is passivity removed?
3. a) identify the gas evolved when sulphur is treated with conc nitric acid.  
 b) In the manufacturer of sulphuric acid by contact process. give the equations for the conversion of sulphur trioxide to sulphuric acid.  
 c) How would you distinguish between dil. HCl and dil.  $\text{HNO}_3$  by addition of only one solution.  
 d) A metal 'M' form a volatile chloride containing 65.5% chlorine. If the density of chlorine relative to hydrogen is 162.5. Find the molecular formula of the chloride.  
 e) 0.2g of atom of silicon combines with 21.3g of chlorine. Find the empirical formula of the compound formed.
4. a) if 16.4 grams of calcium nitrate is heated, calculate the volume of nitrogen is heated. calculate the volume of nitrogen di oxide obtained at STP and the mass of calcium oxide obtained.  
 b) State which of the two- a solution of HCl in water or in toluene is an electrolyte. Explain.  
 c) In the lab preparation of ammonia flask is fitted in slanting position.  
 d) What is aquaregia forties and oil of vitriol.  
 e) Why the impurity of arsenic oxide must be removed before passing the mixture of  $\text{SO}_2$  and air through the catalytic chamber.
5. a) red brown vapours are produced when conc sulphuric acid as added to hydrogen bromide.  
 give reason  
 b) Distinguish between dil sulphuric acid and dil hydrochloric acid (using barium chloride solution).  
 c) State two relevant observations for lead nitrate crystals heated in a hard glass test tube.  
 d) Complete and balance  
 i)  $\text{Pb}_3\text{O}_4 + \text{HCl} \rightarrow \text{_____} + \text{_____}$   
 ii)  $\text{CuSO}_4 + \text{NH}_4\text{OH} \rightarrow \text{_____} + \text{_____}$ .  
 e) Calculate the numbers of atom of each kind in 5.3g of sodium carbonate.
6. a) what mass of Ca will contain the same number of atoms as are present in 3.2 g of sulphur (S).  
 b) Find the percentage of water of crystallisation in  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  (Cu=64)  
 c) Name the product formed when carbon and conc nitric acid is heated. Give balanced equation.  
 d) Why conc sulphuric acid is kept in air tight bottles.  
 e) State what is observed when - ammonium hydroxide is first added in small quantity and then in excess to a solution of copper sulphate.



**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**

**Sub:- English Language**

**F.M-80**

**Time: 2 hrs.**

Que. 1. Write a composition of 350-400 words on any one of the following topics: (20)

- a. You are a spectator at a cricket match. Trouble erupts suddenly in the stadium and you witness a riot among the crowd. Give a vivid description of the scene.
- b. India has always believed in the value of the family. Discuss the changes both good and bad, that have resulted from the break-up of the traditional family system.
- c. The computer will soon replace the book. Express your views for or against this statement.
- d. Write a short story which illustrates the truth of the statement 'Rumour is a great traveller.'
- e. Study the picture given below. Write a story or a description or an account of what it suggests to you. Your composition may be about the subject of the picture or may take suggestions from it; however there must be a clear connection between the picture and your composition.



Que. 2. Write a letter on any one of the following topics. (10)

- a. Recently you went to a restaurant for dinner and saw your favourite sports star. You had the opportunity of spending some moments with him or her. Write a letter to your friend giving a brief description of your memorable meeting with the sports star.
- b. There are very few open spaces in your city for children to play in or for people to relax, walk or jog in. Write a letter to the MLA of your constituency, requesting him/ her to take action regarding the building of public parks.

- Que. 3. a. Write a notice informing students of your school about a camp being organised by the Adventure Club of your school.
- b. Write an email to the Principal of your school asking for permission to organise the camp mentioned above. (5)

Que. 4. Read the following passage carefully and answer the questions that follow.

There came to our town some years ago a showman who owned an institution called the Gaiety Land. Overnight, our Gymkhana Grounds became resplendent with banners and streamers and coloured lamps. From all over the district, crowds poured into the show. Within a week of the opening, in gate money, they collected five hundred rupees a day. Gaiety Land provided us all sorts of fun and gambling and sideshows. For a couple of annas, in each booth, we could watch anything from performing parrots to crack motorcyclists. In addition to this, there were lotteries and shooting galleries, where, for an anna you always stood a chance of winning of winning a hundred rupees. There was a particular corner of the show which was in great favour. Here, for a ticket costing eight annas, you could be lucky enough to acquire a variety of articles: pin cushions, sewing machines or even a road engine. One evening, they drew a ticket, number 1005, and I happened to own the other half of the ticket. Glancing down the list of articles, they declared that I had become the owner of a road engine!

I looked stunned. People gathered around and gazed at me as if I was some sort of a curious animal. Some people muttered and giggled, 'Fancy, anyone becoming the owner of a road engine.'

It was not the sort of prize one could carry home at a short notice. I asked the showman if he could help me to transport it. He merely pointed at a notice which decreed that all winners should remove their prizes immediately after the draw and by their own effort. However, they had to make an exception in my case. They agreed to keep the engine at the Gymkhana Grounds till the end of the season, and then, I would have to make my own arrangements to take it out.

When I asked the showman if he could find me a driver, he just smiled and said, 'The fellow who brought it here had to be paid a hundred rupees for the job and five rupees a day. I sent him away and made up my mind that if no one was going to draw it, I would just leave it to its fate.'

'Can't I sell it to some municipality?' I asked innocently. He burst into a laugh. As a showman I have enough trouble with municipal people. I would rather keep out of the way.'

My friends and relatives poured in, to congratulate me, on my new acquisition. No one knew exactly how much a road engine would fetch. All the same they felt that there was a lot of money in it.' Even if you sell it as scrap iron, you can make a few thousands.' some of my friends declared. Everyday, I made a trip to the Gymkhana Grounds to have a look at my new engine. I grew very fond of it. I loved its shining brass parts. I stood near it and patted it affectionately, hovered about it, and returned home only at the close of the show. I thought all my troubles were just coming to an end. How ignorant I was! How little did I guess that my troubles had just begun!

- A. i. Which two sentences in the first paragraph show that Gaiety Land was very popular? (2)
- ii. Give two reasons for the popularity of Gaiety Land. (2)
- iii. What is meant by 'It was not the sort of prize that one could carry home at short notice'? (2)
- iv. What was the showman's response when the narrator asked him to help in transporting the road engine? (2)
- v. Why was the showman ready to leave the road engine to its fate? (2)

B. Give the meanings of: i. Resplendent ii. Acquisition (2)

C. In 60 words describe the reactions of the people, friends and relatives on the narrator's winning the road engine. How did he treat his prize? (8)

Que.5. A. Rewrite the sentences according to the instructions. (10x1=10)

- i. 'Have you walked alone, this long distance today?' he asked Sunita. (Begin: He asked Sunita.....)
- ii. The detective interrogated the suspect closely for over three hours. (Begin: The suspect.....)
- iii. I suddenly realized that the room was too small for the three of us to share. ( Rewrite using so.....that)
- iv. In spite of all her efforts, Susan did not succeed. (Begin: Despite.....)
- v. Sachin stood first in the class and he also excelled at debate. (Begin: Not only.....)
- vi. As soon as the bell rang, the children ran out of the class. (Begin: No sooner.....)
- vii. She was the only person capable of being the House Captain. ( Use: capability)
- viii. Rohan was the tallest boy in the basketball team. (Rewrite using: taller)
- ix. My jeans was not returned until it was washed. (End.....before it was returned.)
- x. The money did not arrive for a month. (Begin: It was.....)

B. Fill in the blanks with suitable words. (6)

- i. Truth always prevails \_\_\_\_\_ the long run.
- ii. Sujata stood \_\_\_\_\_ the river and watched the ships go by.
- iii. She took some money \_\_\_\_\_ her father to buy some novels.
- iv. Deepak was very upset \_\_\_\_\_ me.
- v. Michelle is longing \_\_\_\_\_ meet me.
- vi. Shilpa gave me a rare gift \_\_\_\_\_ my birthday.

C. Join the following pairs of sentences without using and, but or so. (4)

- i. Rani reached the spot. We were to meet there.
- ii. Robert met me. I gave him the document.
- iii. Shehnaz was very upset. I wanted to help her out.
- iv. Sahil composed a song. It became a hit.



**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- English Literature**

**F.M-80**  
**Time: 2 hrs.**

**Attempt any five of the following**

**Read the following extract and answer.**

(16x5)

1. Well, well, but for mine own part, as I have set up my rest to run away, so I will not rest till I have run some ground. My master's a very Jew. Give him a present. Give him a halter. I am famished in his service. You may tell every finger I have with my ribs. Father, I am glad you are come. Give me your present to one Master Bassanio, who indeed gives rare new liveries. If I serve not him, I will run as far as God has any ground.—O rare fortune! Here comes the man.—To him, Father, for I am a Jew if I serve the Jew any longer. (drama)

- i. Who is the speaker? Whom is he talking to? (3)
- ii. How does the speaker play a trick on his father just before in these lives? (3)
- iii. Who is his new master? Why is he impressed by him? (3)
- iv. Give a character sketch of the speaker. (3)
- v. Why does he not intend to serve the Jew. (4)

2. If to do were as easy as to know what were good to do, chapels had been churches and poor men's cottages princes' palaces. It is a good divine that follows his own instructions. I can easier teach twenty what were good to be done than be one of the twenty to follow mine own teaching. The brain may devise laws for the blood, but a hot temper leaps o'er a cold decree. Such a hare is madness the youth—to skip o'er the meshes of good counsel the cripple. But this reasoning is not in the fashion to choose me a husband. O me, the word “choose!” I may neither choose whom I would nor refuse whom I dislike—so is the will of a living daughter curbed by the will of a dead father. Is it not hard, Nerissa, that I cannot choose one nor refuse none? (drama)

- i. Where are Portia and Nerissa? Why are they there? (3)
- ii. Earlier, in what way did Nerissa try to cheer Portia? What was Portia's reaction to it? (4)
- iii. Explain – “the will of a living daughter curbed by the will of a dead father.” (3)
- iv. How does Portia choose her husband at last? (3)
- v. Explain – “I can easier teach ..... Mine over teaching.” (3)

3. Continuous as the stars that shine  
And twinkle on the milky way,  
They stretched in never-ending line  
Along the margin of a bay:  
Ten thousand saw I at a glance,  
Tossing their heads in sprightly dance (poem)

- i. What is referred to as ‘they’ in the third line? (3)
- ii. Describe their comparison with the shining stars. (3)
- iii. Explain – ‘tossing their heads in sprightly dance’. (3)
- iv. What is the effect of their beauty on the poet? (3)

- v. Give the theme of the poem. (4)
4. And then the old man shook his head,  
And, with a natural sigh,  
'Tis some poor fellow's skull,' said he,  
'Who fell in the great victory. (poem)
- Who is the old man? What causes him to sigh? (3)
  - What incident prompted the old man to give an account of the Battle of Blenheim? (3)
  - How did the battle affect the old man's family? (3)
  - Name the two countries that fought the battle. Which army won? What reason does the old man give for the victory? (3)
  - State the poet's attitude towards the war. (4)
5. With reference to Norah Burke's 'The Blue Bead' (story)
- Describe Sibia. (5)
  - Describe the crocodile. (5)
  - Narrate Sibia's visit to the bazaar. Why has she been described as a dreamy girl? (6)
6. "How soon will supper be ready?" he asked.  
"Right soon," answered Mrs. Thompson, beginning to bustle about. There was no asperity in her voice.  
After washing from his hands and face the dust and soil of work, Joe left the kitchen, and went to the little bedroom. A pair of large bright eyes looked up at him from the snowy bed; looked at him tenderly, gratefully, pleadingly. How his heart swelled in his bosom! With what a quicker motion came the heart-beats! Joe sat down, and now, for the first time, examining the thin frame carefully under the lamp light, saw that it was an attractive face, and full of a childish sweetness which suffering had not been able to obliterate. (story)
- Why was Maggie bedridden? (3)
  - Who did Maggie become a purpose of life and how? (3)
  - What did Joe Thompson consider Maggie as? (3)
  - Why did Joe's heart Swell? (3)
  - Who adopted John and Kate? Give reasons for both. (4)

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Geography**

**F.M-80**  
**Time: 2 hrs.**

**SECTION: A (30 MARKS)**

**Q.1. Study the extract of the survey of India Map Sheet No. 45D/7.(easting 89-99, northing 80-90) and answer the following questions:**

- a. Give the six figure grid reference for: i.  $\Delta$  592    ii. The temple near Juvol. (2)
- b. What does the blue line in the river system indicate? (1)
- c. Identify the drainage pattern in grid square 9782. (1)
- d. Calculate the distance in kilometers along the cart track between Juvol and Ranavas. (2)
- e. Calculate the distance by direct method in kilometers between Karja and Rampura. (2)
- f. What is the area in Sq. kms. Of the region enclosed within easting (91 and 95) and northing (82 and 84). (2)
- g. What is the R.F of this map? What does it means? (2)
- h. What is the main occupation of the people of the region in the map? Give a reason for your answer. (2)
- i. What is the main form of transport in this region? Give the map evidence for your answer. (2)
- j. What do you mean by 8r in grid sq. 9281? (1)
- k. What is the compass direction of Khara (9686) from Telen nagar (8989). (1)
- l. State the settlement pattern: (2)
- i. Vaghoriya    ii. Rampura

**Q.2. On the outline map of India mark the followings: (10)**

- a. Label the river Chenab.
- b. River Chambal
- c. Nilgiri Hills
- d. Hyderabad
- e. Very densely populated state located in south India.
- f. Lake Chilika
- g. Aravalli Mt.
- h. Mark and name the coal field located in Jharkhand.
- i. Gulf of Khambat
- j. Shade and label a region of red soil in Southern India.

**SECTION: B (50 MARKS)**

Attempt any five questions:

- Q3. a. Mention any two disadvantages of air transport. (1)**
- b. What is a Natural Harbour? Give an Example. (1)
- c. Why is road transport in India considered more useful than rail transport? Give two reason to support your answer. (2)
- d. Give reason to explain the lack of rail transport in Northern India. (2)
- e. i. Mention two advantages of waterways. (2)
- ii. Give two reasons why peninsular rivers are not ideal for navigation. (2)

- Q4. a. What do you mean by sewage? (2)  
 b. What is acid rain? Mention two of its effects. (2)  
 c. What do you mean by recycling? (1)  
 d. What are the soil pollutants? How do they effect soil? (2)  
 e. i. Define “Biomagnification” and “Eutrophication”. (2)  
 ii. What is Smog? (1)
- Q5 a. Explain the term oil cake. (1)  
 b. Explain the term Ratooning and name the crop whit which it is associated. (2)  
 c. Mention two problem faced by the sugarcane cultivators in India. (2)  
 d. Give the geographical requirements for the cultivation of Jute? (2)  
 e. i. Why is a lot of labour required for sugarcane cultivation? (2)  
 ii. Oilseeds are an important commercial crop grown in India. Give a geographical reason.(1)
- Q6. a. i. Tea plantations are found in hill slopes. Give reason. (1)  
 ii. Which state in India is the largest producer of coffee? (1)  
 b. What conditions of soil and climate are favorable for the cultivation of coffee? (2)  
 c. Regular pruning is essential for the tea bushes. Give geographical reasons. (2)  
 d. Explain the term Ginning. (2)  
 e. Why are silver oak and other trees are grown on coffee plantations. (2)
- Q 7. a. i. What type of soil is best suited for Jute cultivation? (1)  
 ii. Define Colonial Planting. (1)  
 b. Darjeeling has always been famous for tea .Give geographical reasons. (2)  
 c. India is the largest producer of tea. State the climatic factors necessary for its growth. (2)  
 d. Name the by- products of sugarcane and their uses. (2)  
 e. Why must cotton balls be picked immediately. (2)
- Q8. a. i. Why are pulses often grown as rotation crops. (1)  
 ii. Which virulent fungi disease affect wheat? (1)  
 b. Millets and pulses are called “Dry Crops “Explain. (2)  
 c. Give two advantages of growing rice in nurseries. (2)  
 d. What are the advantages of transplantation method? (2)  
 e. State two important aspect of the Japanese method of rice cultivation. (2)

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Hindi**

**F.M-80**  
**Time: 2 hrs.**

**Section-A (40 Marks)**  
**Attempt all questions**

Q1). दिए गए विषयों में से किसी एक विषय पर (250 शब्दों में) निबंध लिखें:- (15)

- I. शिक्षक की आवश्यकता बताने हुए शिक्षण प्रणाली के गुण-दोष बताइए।
- II. किशोर अवस्था के विद्यार्थियों का फैशन की और बढ़ती आकर्षण उनके अध्ययन में कितना बाधक है- इसपर अपने विचार लिखिए।
- III. बढ़ती हुई महंगाई के कारण कौन-सी परेशानियाँ उत्पन्न हो रही हैं? यदि इनका शीघ्र समाधान न मिले तो इसका परिणाम क्या हो सकता है? इसपर अपने विचार लिखिए।
- IV. 'जहाँवाह वहाँराह' - इस लोकोक्ति के आधार पर एक कहानी लिखें।
- V. दिए गए चित्र को ध्यानपूर्वक देखिए और चित्र को आधार बनाकर वर्णन कीजिए अथवा कहानी लिखें, जिसका सीधा स्पष्ट सम्बन्ध चित्र से होना चाहिए।



Q2). निम्न में से किसी एक विषय पर लगभग 120 शब्दों में पत्र लिखें :- (7)

- I. छुट्टियों के बाद छात्रावास में सकुशल पहुँच जाने की सूचना अपने पिताजी को पत्र द्वारा दीजिये।
- II. आपके क्षेत्र में सड़कों पर रोशनी (street light) न होने से अन्धकार रहता है। नगर-निगम के अधिकारी को पत्र लिखकर अपेक्षित प्रबंध करवाने के लिए प्रार्थना-पत्र लिखें।

Q3). निम्न गद्यांश को ध्यानपूर्वक पढ़िए तथः उसके नीचे लिखे सभी प्रश्नों के उत्तर लिखें। उत्तर यथासंभव आपके अपने शब्दों में ही होने चाहिए:- (2x5=10)

किसी आश्रम में एक ज्ञानी महात्मा रहते थे। एक दिन अपने शिष्यों को उपदेश देते हुए उन्होंने बताया कि “प्रत्येक प्राणी में भगवान् है। पुरुष, स्त्री, पशु-पक्षी यहाँ तक कि छोटे-छोटे जीव में भी भगवान् विद्यमान हैं; इसलिए किसी से भी डरना नहीं चाहिए।” शिष्य बहुत प्रसन्न हुए और यह मन्त्र रट लिया गया।

एक दिन महात्माजी का एक शिष्य आश्रम से नगर गया वह अपने ध्यान में मस्त चल रहा था। उधर से एक पत्थल हथी दौड़ा आ रहा था उसपर बैठे महात्मा चिल्ला रहे थे “भागो-भागो हथी पत्थल हो गया है और मेरे अंकुश में नहीं रहा इसलिए अपने प्राणों को बचाओ और भाग जाओ।”

लोग अपनी जान बचाने के लिए इधर-उधर भागने लगे परन्तु वह शिष्य नहीं भागा।

उसने सोचा कि गुरु जी का अचूक मन्त्र मेरे पास है। मुझमें भी भगवान् है और इस हथी में भी भगवान् है तो फिर भगवान् को भगवान् से क्या डर हो सकता है। वह डट रहा।

महात्मा ने पुनः चेतावनी दी, “हथी पत्थल है, बचो।”

परन्तु वह शिष्य हथी के सामने अड़ कर खड़ा रहा हथी बेचारे को क्या पता था कि यह नयनयज्ञ सीख कर आया है। उसने उसे अपनी सूँड़ से लपेटकर दूर फेंक दिया। शिष्य की कई हड्डियाँ टूट गईं। महात्माजी आए और शिष्य को आश्रम ले गए।

गुरु जी ने पूछा “हे शिष्य! क्या बड़ा दुर्घटना हुई?” वह बोला “एक पत्थल हथी भागा आ रहा था मैं उससे बिलकुल नहीं डरूँ क्योंकि आपका मन्त्र मेरे पास था परन्तु उस मूर्ख हथी ने पूरे वेग से मुझे पकड़कर परे फेंक दिया। आपके आदेशानुसार मैंने उसे भी भगवान् का ही रूप समझा परन्तु आपके भगवान् ने मेरी हड्डियाँ तोड़ दी। आपका उपदेश मिथ्या है।”

गुरु जी सहज भाव से बोले, “क्या उस हथी पर कोई सवाल था?”

शिष्य ने बताया “उसपर एक महात्मा बैठे थे जो कह रहे थे कि हथी पत्थल हो गया है, अपने-आपको बचाओ।” गुरु जी बोले, पगले तुम्हें महात्मा में विराजमान भगवान् की बात पहले सुननी चाहिए थी, क्योंकि उसकी चेतना हथी के भगवान् से अधिक जागृत थी। तुम विवेक शून्य होकर मेरे शब्दों को ही पकड़ पाओ हो, परन्तु उसमें निहित रहस्य को नहीं समझ पाए।

शिष्य को अब यह रहस्य समझ में आया कि जिस प्राणी की चेतना अधिक जागृत होती है उसी का भगवान् अर्थात् ब्रह्मादिक जागरूक होता है।

इसलिए इसका शब्द नहीं बल्कि उसमें छिपे रहस्य को समझना चाहिए, जागरूक रहना चाहिए और अक्ल से काम लेना चाहिए।

- ज्ञानी महात्मा कह रहे थे? उन्होंने अपने शिष्यों को क्या बताया?
- हथी पर बैठे महात्मा क्या चिल्ला रहे थे?
- महात्मा की चेतावनी के बावजूद भी शिष्य क्यों नहीं भागा?
- शिष्य के न भागने का क्या दुष्परिणाम हुआ?
- सारी घटनाओं के बावजूद गुरुजी ने शिष्य को क्या समझाया? इस गद्यांश से आपको क्या शिक्षा मिलती है?

(2)

Q4). निम्न प्रश्नों के उत्तर निर्देशानुसार लिखिए –

- निम्न में से किसी एक मुहावरे से वाक्य निर्माण करें :-  
धन पत्नी की तरह बहाना नज़ी यद्द आना। (1)
- निम्न शब्दों में से किसी एक शब्द के दो पर्यायवाची शब्द लिखिए :-  
अहंकार, अतिथि (1)
- निम्न शब्दों में से किन्हीं दो शब्दों के विपरीतार्थक शब्द लिखिए :-  
आदम, एकमुखी, कृष्ण, घृणा। (1)

- IV. निम्न शब्दों से विशेषण बनाएँ :- (1)  
निंदक पुराण
- V. भाववाचक संज्ञा बनाएँ :- (1)  
सेवक, राष्ट्र
- VI. कोष्ठक में दिए गए निर्देशानुसार वाक्यों में परिवर्तन कीजिए :- (3)  
क) दोनों देशों ने परस्पर एक-दूसरे की ताकत का अनुमान लगा लिया था (वाक्य को शुद्ध करें)  
ख) विद्यार्थी पिकनिक पर जयपुर गए थे। (भविष्यत काल में परिवर्तित करें)  
ग) तुम्हारी बड़ी बहन कौन-सी कक्षा में पढ़ती है? (लिंग बदलें)

### Section-B

Attempt four questions from this section.

You must answer at least one questions from each of the two books you have Studied and any two other questions.

### गद्य-संकलन

निम्न गद्यांश को ध्यानपूर्वक पढ़ें तथा उसके नीचे लिखे सभी प्रश्नों के उत्तर लिखें :-

- Q5). एक दिन उसने आसमान में पतंग उड़ती देखी। न जाने क्या सोचकर उसका हृदय एकदम खिल उठा विश्वेश्वर के पास जाकर बोला "कलकामुझे एक पतंग मंगा दो।" (2)
- क) आसमान में उड़ती पतंग देखकर किसका हृदय एकदम खिल उठा और क्यों? (2)  
ख) क्या विश्वेश्वर ने उसे पतंग मंगवा दी? यदि नहीं तो पतंग कैसे आई? (2)  
ग) पतंग आने पर श्यामू ने किसकी सहमतपत्नी और उसने क्या सुझाव दिया? (3)  
घ) इस कहानी में क्या समझाने का प्रयास किया गया है? (3)
- Q6). दशहरे के दिनों में वे बड़े उत्साह से रमलीला में सम्मिलित होते और स्वयं किसी-न-किसी पात्र का अभिनय करते। प्राचीन सभ्यता का गुणगान उनकी प्रकृति का प्रथम अंग था। (2)
- क) यहाँ किसके विषय में बात हो रही है? परिचय दीजिए। (2)  
ख) वे किस प्रथा के समर्थक थे और सम्मिलित कुटुंब के विषय में उनके क्या विचार थे? (2)  
ग) आनंदी कौन थी और उसने कैसे नई और पुरानी परिस्थितियों को संभाला? (3)  
घ) 'बड़े घर की बेटी' कहानी का संदेश लिखिए। (3)
- Q7). "अरे यह क्या इसमें तो सड़क, आदमी, ट्राम, बस, मोटर, मकान सब एक दूसरे पर चढ़ रहे हैं। मज्जो सबकी खिचड़ी पकाकर रख दी हो। क्या घनचक्कर बनाए है?" (2)
- क) उपर्युक्त वाक्य किसने, किसको और क्यों कहा है? (2)  
ख) उपर्युक्त कथन कहने वाले का परिचय दीजिये। (2)  
ग) यहाँ 'खिचड़ी पकाकर' मुहावरे का प्रयोग क्यों और किसके लिए किया गया है? स्पष्ट करें। (3)  
घ) श्रोता के विषय में आप क्या जानते हैं? उसका नाम लिखते हुए; उसके विचार लिखें। (3)

## (पद्य- संकलन)

Q8). गुरु गुबिंद दोऊ खड़े कळे लणू पाँ।

बलिहारी गुरु आपनो, जिन गोविन्द दियौ बतअ ॥

जब मैं थपतब हरि नहीं, अब हरि हैं मैं नहि।

प्रेम गली अति सांकरी, तअमे दो न समहि ॥

- क) गुरु और गोविन्द में से कवि ने किसे बड़ा बतलाया है और क्यों? (2)
- ख) “जब मैं थपतब हरि नहीं अब हरि हैं मैं नहि।” पंक्ति का भाव स्पष्ट करें। (2)
- ग) “प्रेम गली अति सांकरी तअमे दो न समहि” पंक्ति का आशय स्पष्ट करें। (3)
- घ) अर्थ लिखें:- गोविन्द, पअमे, बलिहारी, मैं, सांकरी, हरि (3)

Q9). कुछ कह लिय कुछ सुन लिय

कुछ बोझ अपन बाँट गय

अच्छ हुआ तुम मिल गई

कुछ रास्ता ही कट गय

क्यारह में परिचय कहूँ, राही हमारा नाम है।

चलना हमारा काम है।

- क) यहाँ कवि किस बोझ की बात कर रहा है? उसे उसने कैसे बाँटा? (2)
- ख) यहाँ कवि को कौन मिल गई और मिलने से क्या लाभ हुआ? (2)
- ग) कवि अपने परिचय में क्या कहते हैं? आप उनके परिचय से सहमत हैं या नहीं। स्पष्ट करें। (3)
- घ) कवित्त का प्रतिपाद्य लिखें। (3)

Q10). किन्तु यह अचानक हुआ ध्यान

दीन हूँ, छोटी हूँ, अज्ञान

मार्ग-मंदिर का दुर्गम मार्ग

तुम्ही बतला दो हे भगवान्

मार्ग के बाधक पहेरेदार

सुनो है ऊँचे से सोपान।

फिसलते हैं ये दुर्बल पैर

चढ़ा दो मुझको हे भगवान् ॥

- क) किसको अचानक क्या ध्यान आय है? (2)
- ख) वह किससे, कौन -से मार्ग के विषय में पूछती है? (2)
- ग) मार्ग के बाधक कौन है? उनके विषय में विस्तार से बताइए। (3)
- घ) सोपान और दुर्बल पैर का आशय स्पष्ट करें। (3)



**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- History & Civics**

**F.M-80**  
**Time: 2 hrs.**

INSTRUCTIONS – Attempt all questions from PART -1.

Mark the KEYWORDS.

PART -1 CIVICS (30 Marks)

QUESTION – 1

(1x10=10)

- a) How are the members of loksabha elected?
- b) Mention any two electoral functions of the Union Parliament.
- c) Mention one difference between the Cabinet and the Council of Ministers.
- d) Mention two provisions of the Constitution, which clearly establish the supremacy of the loksabha with regard to the Money bill .
- e) Define Quorum of the House.
- f) On what grounds may the President of India be removed from office?
- g) How is the Vice President of India elected?
- i) Mention two ways in which the Parliament exercises control over the executive.
- j) Who is the constitutional head of the nation?

QUESTION -2

(2x10=20)

- a) What is meant by Doctrine of Lapse? Give an example.
- b) Mention any two objectives of the Early Nationalists.
- c) What is meant by the policy of Divide and Rule pursued by the British in India?
- d) Who was known as Grand Old Man of India? Mention any one of his contribution in the freedom struggle.
- e) What do you mean by Swadeshi? Why did Gandhi launch it?
- f) What was the immediate cause of the First World War?
- g) Mention two differences between the Fascist and Nazi ideologies
- h) What was the immediate objective of Forward Block?
- i) Mention any two provisions of the Indian Independence Act of 1947.
- J) Mention the programme of Khilafat Movement. (2points)

PART -2

SECTION –A (CIVICS)

Answer any TWO from this section -

QUESTION -3

With reference to the parliament, answer the following questions –

- a) Two judicial powers of the Parliament. 2
- b) Four Priviledges and immunities of members of Parliament. 4
- c) What do you mean by Sessions? Explain Sessions of the Parliament. 4

QUESTION -4

With reference to the Union Executive. explain -

- a) Qualifications for election of President. 3
- b) State three reasons to justify the indirect election of the President. 3
- c) Limitations on Prime Minister’s Position and Authority. 4

QUESTION -5

The Prime Minister is the KEY STONE of the Cabinet arch .In the light of this statement discuss his position in relation to the Cabinet. Mention FIVE points. (10)

SECTION –B (HISTORY)Answer any THREE from this sectionQUESTION 6

With reference to the First War of Independence, 1857 –

- a) Explain the immediate cause of the revolt of 1857 - 3
- b) Mention three economic causes that caused unrest among Indians. 3
- c) State FOUR changes introduced in the organisation of the army after the revolt. 4

QUESTION 7

The advent of Mahatma Gandhi on the political scene gave a new direction to the freedom struggle.

In this context, answer the following –

- a) What were the causes which led to the launching of the Non –Cooperation Movement? 3
- b) Why did Gandhi withdraw the Non- cooperation movement? 3
- c) Any four impact of Non –cooperation movement. 4

QUESTION -8

With reference to the results of the First World War, explain –

- a) Territorial rearrangements that changed the political map of the world. 4
- b) Emergence of the United States as a World Power. 3
- c) Three aims of League of Nations. 3

QUESTION 9

- a) Which historic event is shown in the picture? Name the leader in the picture. 2
- b) Name the movement related to the picture. 2
- c) Explain the historic event in (30 -40) words. 3
- c) Mention three repressive measures taken by the British to suppress the movement. 3

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Mathematics**

**F.M-80**  
**Time: 2 ½ hrs.**

Attempt all Questions from Section A and any Four Questions from Section B.  
The intended marks for questions or part of questions are given in brackets.

**Section: A**

**Attempt All Questions from this Section.**

**Question: 1.**

- (a) Using remainder theorem, find the value of K. if on dividing  $2x^3 + 3x^2 - Kx + 5$  by  $(x - 2)$ , leaves a remainder 7. (3)
- (b) If x, y, z are in continued proportion. Prove that  $\frac{(x+y)^2}{(y+z)^2} = \frac{x}{z}$  (3)
- (c) Given  $A = \begin{bmatrix} 2 & -6 \\ 2 & 0 \end{bmatrix}$ ,  $B = \begin{bmatrix} -3 & 2 \\ 14 & 0 \end{bmatrix}$  and  $C = \begin{bmatrix} 4 & 0 \\ 0 & 2 \end{bmatrix}$  (4)

Find the matrix X such that  $A + 2X = 2B + C$

**Question: 2.**

- (a) Find the co-ordinates of the image of (3, 1) under reflection in x-axis followed by reflection in the line  $x=1$ . (3)
- (b) Find the equation of a straight line passing through the point (1, 4) and y-intersecting the line  $x - 2y - 11 = 0$  on the y-axis. (3)
- (c) Write down the co-ordinates of the point P that divides the line joining A (-4, 1) and B (17, 10) in the ratio 1:2. Calculate the distance OP where O is the origin. (4)

**Question: 3.**

- (a) In the  $\Delta ABC$ ,  $\angle A$  is acute. BD and CE are perpendicular on AC and AB respectively, prove that  $AB \times AE = AC \times AD$ . (3)
- (b) Prove that  $(\sin\theta + \cos\theta) + (\tan\theta + \cot\theta) = \sec\theta + \operatorname{cosec}\theta$  (3)
- (c) If the mean of the distribution is 7.2, find a and b. (4)

|                 |   |   |    |    |   |
|-----------------|---|---|----|----|---|
| Means           | 5 | 6 | 7  | 8  | 9 |
| No. of Students | 6 | a | 16 | 13 | b |

**Question: 4.**

- (a) In a single throw of a die, find the probability of getting: (3)
- An odd number.
  - A number less than 5.
  - A number greater than 5.
  - A prime number.
  - A number less than 8.
  - A number divisible by 3.
- (b) Mohini wishes to fit three rods together in the shape of a right triangle. If the hypotenuse is 2cm longer than the base and 4cm longer than the shortest side, find the lengths of the rods. (3)
- (c) Find the sum of first 24 terms of the list of numbers whose  $n^{\text{th}}$  term is given by  $a_n = 3 + 2n$ . (4)

**Section: B (40 Marks)**Attempt any Four Questions.**Question:5.**

- (a) Mr. R. K .Nair gets Rs. 6455 at the end of one year at the rate of 14% p.a in a recurring deposit account. Find the monthly installment. (3)
- (b) Ajay owns 560 shares of a company. The face value of each share is Rs. 25, The company declares a dividend of 9%, calculate:- (4)
- The dividend that ajay will get.
  - The rate of interest on his investment, if ajay has paid Rs. 30 for each shares.
- (c) Given  $20 - 5x < 5(x + 8)$ , find the smallest value of x where, (i)  $x \in I$  (ii)  $x \in W$ . (2)

**Question: 6.**

- (a) Find the value of K. so that the equation  $3x^2 + Kx + 2 = 0$  has equal roots. Also, find the roots in each case. (4)
- (b) If  $\left(\frac{ay-bx}{p}\right) = \left(\frac{cx-az}{q}\right) = \left(\frac{bz-cy}{r}\right)$ , prove that  $\frac{x}{a} = \frac{y}{b} = \frac{z}{c}$ . (4)
- (C) Find X and Y, if  $X + Y = \begin{bmatrix} 7 & 0 \\ 2 & 5 \end{bmatrix}$  and  $X - Y = \begin{bmatrix} 3 & 0 \\ 0 & 3 \end{bmatrix}$ . (2)

**Question: 7**

- (a) The sum of first six terms of an arithmetic progression is 42. The ratio of the 10<sup>th</sup> term to the 30<sup>th</sup> term is  $\frac{1}{3}$ . Calculate the first and thirteenth term. (4)
- (b) A point p (a, b) is reflected in the x-axis to p' (2,-3), write down the value of a and b. p'' is the image of p, when reflected in the y-axis. Write down the co-ordinates of p''. find the co-ordinates of p''', when p is reflected in the line, parallel to y-axis such that x=4. (6)

**Question: 8.**

- (a) Three consecutive vertices of a Parallogram ABCD are A (1, 2), B (1, 0) and C (4, 0).Find the fourth vertex D. (4)
- (b) On a map draw to a scale of 1:25000,a rectangular plot of land ABCD has the following measurement AB= 10 cm and BC = 16 cm.calculate: (4)
- (i) The distance of a diagonal of the plot in Km.
- (ii) The area of the plot in Sq Km.
- (c) Find the equation of the line parallel to the line  $3x + 2y = 8$  and passing through the point (0, 1). (2)

**Question: 9.**

- (a) The angle of elevation of a jet plane from a point A on the ground is  $60^\circ$ .After a flight of 15 seconds, the angle of elevation changes to  $30^\circ$ . If the jet plane is flying horizontally at a constant height of  $1500\sqrt{3}$  metres.find the speed of the jet plane. (4)
- (b) From the following frequency distribution find:- (6)
- (i) The median.
- (ii) Lower quartile.
- (iii) Upper quartile.
- (iv) Inter quartile range.

|           |    |    |    |    |    |    |    |
|-----------|----|----|----|----|----|----|----|
| Validate  | 15 | 18 | 20 | 22 | 25 | 27 | 30 |
| frequency | 4  | 6  | 8  | 9  | 7  | 8  | 6  |

**Question: 10.**

- (a) How many terms of the AP 9, 17, 25,.....must be taken to give a sum of 636 ?. (4)
- (b) The weight of 50 workers is given below:- (6)

|               |       |       |       |       |        |         |         |
|---------------|-------|-------|-------|-------|--------|---------|---------|
| Wt.(in Kg)    | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | 100-110 | 110-120 |
| No of workers | 4     | 7     | 11    | 14    | 6      | 5       | 3       |

Draw an ogive of the given distribution. Use a graph paper to estimate the following:-

- (i) The upper and lower Quartiles.
- (ii) Final the numbers of workers weighs 95 Kg and above.

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Moral Science**

**F.M-100**  
**Time: 1 ½ hrs.**

**Answer all the questions**

- QI.** a. What elements prevent and what elements promote accurate communication? (10)  
 b. What happens when mass media publish or broadcast information that the government does not want them to? (8)  
 c. How would you distinguish between responsible and irresponsible reporting? (8)  
 d. "It must be right because everyone is doing it." What is your reaction to this statement? How would you respond to someone who makes this statement to you? (8)
- QII.** a. Comment on the statement: "Human greed is responsible for the balance of nature being upset and many species becoming extinct." (10)  
 b. "We cannot create life, therefore we have no right to destroy it." Discuss this statement using examples. (8)  
 c. Who is responsible for life? Do we have the right to destroy or kill life? (8)  
 d. All the scriptures of all the religions teach us that God is the creator and controller of life. Comment on this statement. (8)
- QIII.**a. Distinguish between infatuation and love. What advice would you give to a teenager infatuated with a member of the opposite sex? (8)  
 b. Examine the different attitudes built into Indian culture towards boys and girls? Are they just? What changes would you make? (8)  
 c. Do you think it is wise for an eighteen year old girl to get married? If not, why not? (8)  
 d. What kind of adjustments do partners have to make in a marriage? (8)

**XAVIER SCHOOL, GAMHARIA**  
**2<sup>nd</sup> Term Exam-2018**

**Class: X**  
**Sub:- Physics**

**F.M-80**  
**Time: 2 hrs.**

Section: I is compulsory. Attempt any Four Question from Section II.  
The intended marks for questions or part of questions are given in brackets.

**Section: A (40 Marks)**

**Attempt All Questions from this Section.**

**Question: 1.** **(2x5=10)**

- (a) Is it possible to have an accelerated motion with a constant speed? Explain.
- (b) With reference to their direction of action, how does a centripetal force differ from a centrifugal force?
- (c) A coolie carrying a load on his head and moving on a frictionless platform does no work. Explain why?
- (d) Define 'Joule'; establish a relationship between S.I unit and CGS unit of work.
- (e) How can the work done be measured when force is applied at an angle to the direction of displacement?

**Question: 2.** **(2x5=10)**

- (a) If the power of a motor is 40 Kw, at what speed does it raises a load of 20,000 N?
- (b) How is the refractive index of a medium related to its real depth and apparent depth?
- (c) Light passes through a rectangular glass slab and through a triangular glass prism in what way does the direction of two emergent ray differ and why?
- (d) The refractive index of a glass with respect to air is 1.5.what is meant by this statement.
- (e) How does the angle of deviation produced by a prism change with air increases in the value of angle of incidence.

**Question: 3.** **(2x5=10)**

- (a) Name one property of waves that do not change when the wave passes from one medium to another.
- (b) What is meant by resonance?
- (c) State two ways in which resonance differs from forced vibrations.
- (d) Explain why stringed musical instrument. lines the guitars are provided with a hollow box.
- (e) A person is tuning his radio set to a particular station. What is the person trying to do to tune it?

**Question: 4.**

- (a) What is meant by earthing of an electrical appliance? (2)
- (b) Name the materials used as fuse wire, state its characteristics. (2)
- (c) What is the purpose of using fuse in an electrical circuit? (2)
- (d) Draw the diagram of the ring main circuit. (4)

**Section: B (40 Marks)**

Attempt any Four Question from Section II

**Question: 5.**

- (a) Differentiate between heat capacity and specific heat capacity. (3)
- (b) A geyser has a label 2 Kw, 240 what is the cost of using it for 30 min, if the cost of electricity is Rs. 3 per commercial unit? (3)
- (c)
- (i) In what unit does the domestic consumed. State the value of this unit in S.I unit.
  - (ii) Why should switches always be connected to the live wire?
  - (iii) Give one precaution that should be taken while handling switches. (4)

**Question: 6.**

- (a) Name the type of single pulley that can act as a force multiplier. Draw a labeled diagram of the above named pulley. (3)
- (b) A body of mass 50 Kg has a momentum of  $3000 \text{ Kg ms}^{-1}$ . calculate the K.E also find the velocity of the body. (3)
- (c) Derive a relationship between MA, VR and  $\eta$  (efficiency) of a machine. (4)

**Question: 7**

- (a) Calculate the equivalent resistance between the point A and B. (6)
- (i)

(ii)



- (b) Three resistors  $R_1, R_2$  and  $R_3$  are connected in parallel, derive an expression for the equivalent resistance. (4)

**Question: 8**

- (a) A man standing in front of a vertical cliff fires a gun. He hears echo after 3s. On moving closer to the cliff by 82.5 m, he fires again. This time, he hears the echo after 2.5 s. Calculate:-  
 (i) The direction of the cliff from the initial position of the man.  
 (ii) The velocity of sound. (4)

- (b) The diagram alongside shows the displacement-time graph for a vibrating body. (6)  
 (i) Name the type of vibrations produced by the vibrating body.  
 (ii) Give one example of a body producing such vibrations.  
 (iii) Why is the amplitude of the wave gradually decreasing?  
 (iv) What will happen to the vibrations of the body after some time?



**Question: 9**

- (a) 40 g of water at  $60^\circ\text{C}$  is poured into a vessel containing 50 g of water at  $20^\circ\text{C}$ . The final temperature recorded is  $30^\circ\text{C}$ . Calculate the thermal capacity of the vessel. {Sp heat capacity of water =  $4.2 \text{ J g}^{-1} \text{ }^\circ\text{C}^{-1}$ } (3)
- (b) State three differences between light waves and sound waves. (3)
- (c) (4)  
 (i) Name two safety devices which are connected to the live wire of a household electric circuit.  
 (ii) Give one important function of each of these two devices.

