XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX **F.M-80 Sub:- Chemistry** Time: 2 hrs.

Section- A (Attempt all questions)

1. Name the following:-

 $(1 \times 5 = 5)$

- i. The process by which oxygen is released in the atmosphere.
- ii. Solvent for sulphur.
- iii. Metal which reacts reversibly with steam.
- iv. A colourless gas having burning sulphur smell which turn lime water milky.
- v. A liquid non metal.
- 2. How are the following mixture separated? (Name the technique only)
 - i. Carbon tetrachloride and water.
 - ii. Ammonium chloride and saw dust.
 - iii. Pigments of leaf
 - iv. Sulphur and water
 - v. Salt and water.
- 3. Balance the following equations:-

 $(1 \times 5 = 5)$

ner

- i. $Fe+O_2$ Fe₂ O₃
- ii. $C_2 H_6 + O_2$. $CO_2 + H_2 O$
- $H_3 PO_4 + NO_2 + H_2 O$ iii. P+ HNO₃.
- iv. $NaCl + MnO_2 + H_2 SO_4$ $NaHSO_4 + MnSO_4 + H_2 O + Cl_2$
- $NCl_3 + HCl$ v. $NH_3 + Cl_2$
- 4. Salt 'A' on heating gives a reddish brown coloured gas 'B', a colourless odourless gas
 - 'C' and a residue D yellow when hot& white when cold.

(3+1+1=5)

- i. identify A,B,C and D
- ii. Give equation for the above reaction.
- iii. Give confirmatory test of gas B & gas C
- 5. State the type of chemical reaction-

 $(1 \times 5 = 5)$

- i. NaOH+HCl
- NaCl +H₂O $BaSO_4 + 2HC1$
- ii. BaCl₂₊ H₂ SO₄ iii. $2Fe + 3Cl_2$
- 2Fecl₃

- iv. 2PbO₂
- $2PbO + O_2$
- v. PCl₅
- $PCl_3 + Cl_2$
- 6. (a)State which is the following are oxidized or reduced.

 $(1 \times 3 = 3)$

- i. Cu²⁺
- ii. S^{2-}
- Fe^{2+} iii. Fe⁺³

Cu

(b) What is the valency of underlined element in the following.

 $(1 \times 2 = 2)$

- i. Na₂So₄
- ii. Fecl₃

7.	Fill in the blanks.	$(1 \times 5 = 5)$
	i. When zinc carbonate is heated the residue iswhich is when hot.	
	ii. Heating of camphor is achange.	
	iii. When a piece of calcium is dropped in water, it becomes cloudy after sometimes due formation of .	to the
	iv. When sodium nitrate is heated the gas is evolved.	
8.	Study the table given below and answer the following questions:-	(1×5=5)

Element	Mass no.	Atomic no.
A	1	1
В	14	7
С	40	20
D	32	16
F	20	10

- i. Identify an element having 5 valence electrons.
- ii. Identify an element having no neutron.
- iii. Identify an element exhibiting +2 valency.
- iv. Identify an element having zero valency.
- v. Identify an element exhibiting -2 valency.

Section 'B' 40 marks Attempt any 4 sets of questions. All questions carry equal numbers of marks.

1) (a) A gas occupies a volume of 300cm ³ under a pressure of 350 mm of Hg, Find under	
what pressure of the gas, it occupies a volume of 380cm ³ the temperature during the	
reaction remains constant.	(3)
(b)How does barium chloride solution help in distinguishing between sodium sulphite	
and sodium sulphate.	(3)
(c) Define compounds? Give two characteristics of compounds.	(3)
(d) Name the elements present in group 1 and period 2.	(1)
2) (a) What are the major causes of the depletion of ozone layer? Write any three.	(3)
(b) State modern periodic law . Arrange the elements of halogen family in the increasing	
order of the number of shells.	(3)
(c) What is redox reaction? State which of the following are oxidized or reduced.	
Write Oxidising and reducing agent.	(4)
ZnO+CO Zn+CO ₂	
3) (a) The volume of a Certain gas at constant temperature was found to be 1200 cm ³	
When the pressure is 1000 mm of Hg.	
If the pressure is decreased by 30%, find the new volume.	(3)
(b) Give three equations for the formation of nitric acid in rain water.	(3)
(c) Compare the properties of metal & non-metals on the basis of.	(4)
i. Atomicity	
ii. Physical state	
iii. Electrical conductivity	
iv. Ductility	

4) (a) How will you show that thermal decomposition of calcium carbonate is in accordance with the law of conservation of mass?	(2)
	(3)
(b) Define water of crystallization? Give 2 example of efflorescent salt.	(3)
(c) Sodium chloride is neither hygroscopic nor deliquescent but common salt become wet	(2)
during rainy season. Why?	(3)
(d) Convert -273°C into kelvin.	(1)
5) (a) What is the atomicity of the following elements?i. Sulphur	(1×4=4)
ii. Chlorine	
iii. Phosphorus	
iv. Helium	
(b) Choose the odd one from the following.	(1×4=4)
i. He, Ne, Cl, Ar	
ii. Li, Na, K, Ca	
iii. Cl, Br, At, O	
iv. B, Al, Ga, S	
(c) A metal 'M' having valency +2. What is the formula of its.	$(1 \times 2 = 2)$
i. Bbicarbonate	
ii. Permanganate	
6) (a) Define exothermic and endothermic reaction. (b) What is the chemical formula of the following compounds? i. Calcium phosphate ii. Magnesium pulphits	(2)
(b) What is the chemical formula of the following compounds?	(4)
i. Calcium phosphate	
ii. Magnesium sulphite	
iii. Acetic acid	
iv. Ethyl alcohol	
(c) State Charles law of gases. Convert. – 100 k into °C	(3)
(d) What is the chemical name of Blue vitriol.	(1)

XAVIER SCHOOL, GAMHARIA

3rd Term Exam-2018-19

Class: IX F.M-100 Sub:- Computer Application Time: 2 hrs.

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 [5x2=10]

- (a) What are comments? Explain these along with their types.
- (b) Why a class is called a factory of objects?
- (c) What do you understand by the term data abstraction? Explain with an example
- (d) Write one difference between / and % operator.
- (e) State one similarity and one difference between while and for loop.

Question 2 [5x2=10]

- (a) What does nested loop mean? In what situation can it be used?
- (b) What are identifiers? Write any two **invalid** identifiers.
- (c) What is the use of ternary operator and write an expression to find the smallest number between two numbers using ternary operator.
- (d) Write ASCII code of 'D' and 'g'.
- (e) Write the expression for given java code.

(i)
$$y = \sqrt{2as + u^2}$$
 (ii) $y = \frac{(a+b)^n}{\sqrt{4}+b}$

Ouestion 3

[10x2=20]

- (a) What are the values stored in variables r1 and r2:
 - i) double r1 = Math.abs(Math.min(-2.83,-5.83)); ii) double r2 = Math.sqrt(Math.floor(16.3));
- (b) Analyze the following program segment and determine how many times the body of loop will be executed (show the working).

```
x = 5; y = 50;
while(x<=y)
{
    y=y/x;
    System.out.println(y);
}
```

- (i) char (ii) byte (iii) double (iv) int
- (d) Give the output of the following code segment when

```
switch(opn)
{
    case 'a':
        System.out.println("Platform Independent");
        break;
        case 'b':
        System.out.println("Object Oriented");
        case 'c':
        System.out.println("Robust and Secure");
        break;
        default:
        System.out.println("Wrong Input");
}
```

(e) Give the output of the following program segment and also mention how many times the loop is executed:

```
int i; for (i = 5; i > 10; i++) System.out.println(i); System.out.println(i * 4);
```

- (f) Identify the literals listed below:
 - (i) 0.5 (ii)'A'
- (iii) false
- (iv) "a"
- (g) Evaluate the value of n if the value of p=5, q=19.

```
int n = (q-p) > (p-q) ? (q-p) : (p-q);
```

(h) Convert the following while loop to the corresponding for loop:

```
for(int i=3;i<=4;i++)
{
for(int j=2;j<i;j++)
{
    System.out.print(" ");
}
System.out.println("WIN");
}</pre>
```

- 1) How many times does the inner loop execute?
- 2) Write the output of the program segment.
- (j) What is the value of y after evaluating the expression given below?

$$y - = ++y + y-- + -y;$$

when int $y = 8$.

Section B (60 Marks) Attempt any four questions from this section.

Question 4 [15]

Using the switch statement, write a menu driven program to

- (i) Generate and display the first 10 terms of the Fibonacci series 0,1,1,2,3,5....The first two Fibonacci numbers are 0 and 1, and each subsequent number is the sum of the previous two.
- (ii)Find the sum of the digits of an integer that is input.

Sample Input: 15390

Sample Output: Sum of the digits=18

for an incorrect choice, an appropriate error message should be displayed

Write two programs to generate the following patterns using loop statements.

Remove Watermark No

Question 6 [15]

Write a program to accept a number and check and display whether it is a Niven number of not. (Niven number is that number which is divisible by its sum of digits).

Example:

Consider the number 126.

Sum of its digits is 1 + 2 + 6 = 9 and 126 is divisible by 9

Question 7 [15]

Given below is a hypothetical table showing rates of Income Tax for male citizens below the age of 65 years:

Taxable Income (TI) in	Income Tax in
Does not exceed 1,60,000	Nil
Is greater than 1,60,000 and less than or equal to 5,00,000	(TI – 1,60,000) * 10%
Is greater than 5,00,000 and less than or equal to 8,00,000	[(TI - 5,00,000) *20%] + 34,000
Is greater than 8,00,000	[(TI - 8,00,000) *30%] + 94,000

Write a program to input the age, gender (male or female) and Taxable Income of a person. If the age is more than 65 years or the gender is female, display "wrong category".

If the age is less than or equal to 65 years and the gender is male, compute and display the Income Tax payable as per the table given above.

Write a program to accept a number and check whether a given number is twisted prime number or not.

A number is called a twisted prime number if it is a prime number and reverse of this number is also a prime number.

Examples: 11, 13, 17, 31, 37, 71, 73, 79

Write a Program in Java to find the sum of the series, taking the value of 'a' and 'n' from the user.

$$S = 1 + \frac{a^2}{1!} + \frac{a^3}{2!} + \frac{a^4}{3!} + \dots$$
 to n

(Where ! stands for factorial of the number and factorial value of a number is the product of all integers from 1 to that number, example $5! = 1 \times 2 \times 3 \times 4 \times 5 = 120$).

XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80 Sub:- English Language Time: 2 hrs.

- Q.1. Write a composition not exceeding 350 words on any one of the following topics. (20)
 - a. Tradition is an obstacle to progress. Give your views for or against the topic.
 - b. Imagine you are an acrobat in a famous circus. Describe a typical day in your life.
 - c. My greatest fear.
 - d. Write a story that clearly brings out the theme-Necessity is the mother of invention.

Q.2.

- a. Your friend from Mumbai has never been to a typical Indian village fair.
 Write a letter to him describing one such annual fair that takes place in your locality. OR
- b. Write a letter to the editor of a newspaper highlighting the problems caused by anti-social people in your area. (10)

Q.3.

- a. Write a notice for students of senior classes informing them about the beginning of music classes in your school. (5)
- b. Compose an email to a well-known personality of your town inviting him to be the chief guest at the inauguration of the new music classes in your school. (5)

Q.4. A. Read the passages given below and answer the questions that follow them:

Adoption means establishing a bond between a couple (the adopters) and a child (the adoptee) which is legal, socially and morally equivalent to that between parents and their biological children. The adoptive couples assume the same rights and responsibilities in relation to the child as in a biological relationship and so does the adopted child towards his adoptive parents.

Adoption has been prevalent in India since ancient times. However, until the recent past, it has been mainly to fulfil the needs of the parents, i.e. to have a male child to perform the last rites or to acquire an heir to inherit the family name and property. Childless couples or those without a male child usually adopted a child from their own extended family or at least belonging to their own caste and community. The child's needs were secondary, although usually, a strong parent-child bond did develop.

Today, when a couple decides to adopt, the above reasons continue to be a major motivating factor. Almost equally potent is the desire to avoid the stigma attached to barrenness. However, more couples are now having reservations about adopting a child whose parents are known to them and are instead seeking children about whose background they may have little or no information. This is to avoid divided loyalties and possible interference in the care and upbringing of the child they adopt.

While India continues to have a high birth rate, there are also thousands of couples who are childless. In their desperation to become parents, they go from pillar to post and frequently spend thousands of rupees in trying out various methods like in vitro fertilisation, which still have a very low success rate. Many approach hospitals and private nursing homes and with the active assistance of medical and other staff, obtain unwanted children born therein, often clandestinely. Unfortunately, not many people seem to be aware of the existence of destitute children in institutions, languishing for want of a loving home, or that there are competent child welfare organisations which can help them to fulfil their desire for a child at the same time ensuring that their interests and those of the child are fully protected from all angles, including the important aspect of confidentiality. Details about such organisation are available with the State Department of Directorate of Social Welfare, and couples seriously considering adoption would do better to approach only such organisations rather than depending on the dubious and unreliable assistance of unauthorized persons in hospitals and nursing homes.

- i. What is adoption? (2)ii. Till recent times, what was the primary reason for adopting a child in India? (2)
- iii. Why are most couples reluctant to adopt children of parents known to them? (2)
- iv. What do many childless couples do when they are desperate to have a child of their own? (two points)
- v. Why is it better to adopt children only from competent and authorized institutions? (2)

B. In 60 words summarise the reasons why couples are keen on adopting a child in India and the measures they take to do so. Give a title to your précis and justify it.	(8+2)
Q.5. A. Fill in the blanks with a suitable word. i. Sonia is overwhelmed grief. ii. Only graduates are eligible the post. iii. The climate of Kashmir does not agree me. iv. She was offended his rudeness.	(4)
 B. Join the sentences without using and, but or so. i. The thief escaped. It was very dark. ii. It rained heavily. The football match was cancelled. iii. Answer the first question. You proceed further. iv. Susan lost her book. Her mother scolded her. 	(4)
C. Do as directed. i. I like reading. I like sewing more. (Rewrite using would ratherthan) ii. I finished my work. I went home. (Begin: Having) iii. Frank is successful in life but is not proud. (Begin: Despite) iv. She carries a pen and paper with her at all times to take notes. (Rewrite using so v. We will not have the party if you cannot join us. (Rewrite using unless) vi. Donna will not donate blood. All other students will. (Begin: Except) vii. She wore a mask. It prevented others from recognizing her. (Begin: To) viii. We rushed over to our grandparents' home when we heard the news. (Begin: As a six I grew up on this farm. (Endup) x. You can use this room until someone wants to use it. (As long as) xi. We had fun walking through the forest even though it was hot. (Begin: Despite xii. You will be late. You have to take a taxi. (Join using 'unless')	soon as)

Remove Watermark No

XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80
Sub:- English Literature Time: 2 hrs.

General instructions

- * Answer to this paper must be written on the paper provided separately
- * You will not be allowed to write during the first 15 minutes
- * This time is to be spent in the reading of the question paper
- * Attempt five questions in all from only three text books.
- * You must attempt at least one question from each of the sections A,B and C and not more than two other questions from the same book you have already compulsorily chosen.
- * The intended marks for the question or parts of the question are given in Brackets ()

Section 'A' - Drama

The Merchant of Venice: Shakespeare

Q1. Read the extract given below and answer the question that follow:

Salarino : O! ten times faster Venus' pigeon's fly to seal love's bonds new-made, then they are wont

To keep obliged faith unforfeited!

Gratiano: That ever holds: who riseth from a feast would that keen appetite that he sits down?

where is the horse that doth untread again

His tedious measures with the unbated fire

that he did pace them first? All things that are,

Are with more Spirit chased than enjoy'd.

(1) Where does this scene take place? Who is being waited for? What is the basic	
characteristics of lovers they wish to highlight?	3
(2) Who are Venus' pigeons? How do the Venus' pigeons behave as far as love is concerned?	3
(3) Which fact is discussed by giving the example of a ship?	3
(4) How does Gratiano explain in the extract the state of people in love?	3
(5) How will Jessica participate in the masquerade? What does she have to say regarding this?	
What is your opinion of Jessica?	4

Q2. Read the extract given below and answer the question that follow:

Antonio: Content, i'faith: I'll seal to

such a bond,

And say there is much kindness in the Jew.

Bassanio: You shall not seal to such a bond for me:

I'll rather dwell in my necessity.

Antonio: Why ,fear not, man; I will not forfeit it:

(1) Where are Antonio and Bassanio? Why are they there?	3
(2) Who is the Jew? What does Antonio mean when he says "And say there is much	<u>l</u>
kindness in the Jew"?	3
(3) Why is Antonio so confident that he would not forfeit the bond?	3

(4) How does Bassanio react to Antonio's willingness to seal the bond?(5) What does the word 'bond' mean here? what is demanded in the bond?	3 4	
Q3. Read the extract given below and answer the question that follow: Shylock: Lock up my doors; and when you hear the drum and the vile squeaking of the wry - neck'd Fife, Clamber not you up to the casements then, Nor thrust your head into the public street. To gaze on Christian fools with vamish'd faces; But stop my house's ears, I mean my casements: Let not the sound of shallow foppery enter My Sober house.		
 To whom are these instructions given? Who are the "Christian fools with varnish'd faces? Where is the speaker going? Why? Who has come to invite him? What does the speaker mean by the sound of shallow foppery? What premonition he has earlier? What further instructions does Shylock proceed to give his daughter? Does his daughter follow the advice given to her? If not, why? 		3 3 3 4
Section 'B'- Poetry		
Answer one or more questions from this section A collection of poems Q4. Read the extract given below and answer the question that follow: With fire and sword the country round Was wasted far and wide, And many a childing mother then, And new-born baby died; But things like that you know must be At every famous victory.		
 (1) Where did Kaspar's father live during the war? How did he suffer? (2) What is meant by 'wasted far and wide'? (3) What does the reference 'a childing mother' signify? (4)Was it very uncommon? Quote the line to support your answer. (5)What cost did the people pay for the 'great victory' in the poem, 'After Blenheim'? 		3 3 3 4
Q5. Read the extract given below and answer the question that follow:		
Bangles sellers are we who bear Our shining loads to the temple fair		
Who will buy this delicate, bright Rainbow - tinted circles of light ?		
Lustrous tokens of radiant lives, For happy daughters and happy wives.		

 (1) Who is the narrator of the poem? What does the `bangle seller` tell about his lot? (2) Give the words or phrases used to describe the bangles. Who are the prospective buyers? (3) Which coloured bangles do the maidens wear? Describe the comparison. (4) Explain the line Lustrous token off radiant lives'. (5) The colors of the bangles are associated with the life of a girl getting married. Explain their significance. 	3 3 3 3 4
Q6. Read the extract given below and answer the question that follow:	
The last man of his forlorn group Did naught except for gain. Giving only to those who gave Was how he played the game? Their logs held tight in death's still hands Was proof of human sin? They did not die from the cold without They died from the cold within.	
 (1) What game does the poet refer to? Who plays the game? How? (2) Why does the poet refer the group as a 'forlorn group'? Name the poem and the poet. (3) What proof do they provide regarding the human sin? (4) Give the meaning of – 	3 3 3
(a) in store (b) shiftless (c) bespoke (5) According to the poet, what is the reason behind their death? Section 'C' - Prose Answer one or more questions from only one of the following books that you have studied: A Collection of short stories or Animal Farm or Call of the wild	3 4
Q7. Read the extract given below and answer the question that follow: "What are you doing out here, boy? asked Mr. Oliver."	
 (1) Who is the boy Mr. Oliver is talking to? What was the boy doing? (2) How was the boy weeping? Why did Mr. Oliver talk to him sharply? (3) Why does the author say "if you could call it a face"? (4) What was the reaction of Mr. Oliver when he saw the boy's face? (5) Describe the uncanny climax of the story. 	3 3 3 4
Q8. Read the extract given below and answer the question that follow: "There were not so many carts now and very few people on foot, but the old man was still there".	
(1) Who is the speaker in the about extract? Where is he? what duty is he assigned?(2) Where are the carts and the people going? Why? Where is the old man sitting?(3) Why doesn't the old man move? what is he wearing?(4) What made the old man smile? Why did he leave his town and animals?	3 3 3

Why was he worried now?

(5)Describe the scene at pontoon bridge?

3

Q9. Answer the following questions with reference to R K. Narayan's story A Horse and the Two Goats':

(1) Describe The Village 'Kritam'. What is the irony about it? How was Muni related to 'Kritam'?	4
(2) Compare the relationship between Muni and his wife and relationship between	
The American and the wife.	4
(3) Examine how cross cultural differences bring out humour in the story	
'A Horse and Two Goats'.	8



XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80 Sub:- Geography Time: 2 hrs

SECTION: A (30 Marks)

All question from this part is compulsory.

Q1. Answer the following questions:	(20)
a. Why are lines of latitudes are called parallels.	(2)
b. Why does the earth have optimum temperature condition?	(2)
c. What are ocean currents?	(2)
d. What is meant by the term hydrosphere?	(2)
e. Mention two features of ozone layer.	(2)
f. Why does only 51percent of the insolation reach the earth's surface?	(2)
g. With the help of a diagram explain orographic rainfall.	(2)
h. i. Mention two non biodegradable pollutants.	(1)
ii. Mention two suspended impurities of fresh water pollution.	(1)
i. What is acid rain?	(2)
j. What do you understand by marine water pollution.	(2)
Q2. On an outline of the world mark the following; a. Andes mt. range b. Ural mountain c. Brazilian highland d. Deccan plateau	(10)
a. Andes mt. range	, ,
b. Ural mountain	
c. Brazilian highland	
d. Deccan plateau	
e. Mongolian plateau	
f. Gulf stream	
g. Okhotok current	
h. Japan sea	
i. Gulf of Maxico.	
j. Oyashio current	
SECTION: B (50 Marks)	
Attempt any five questions from this part.	
Q3.a. Why is only one side of the moon is visible from the earth?	(2)
b. How is the local time of a place fixed?	(2)
c. Give reason: "There is no higher latitude than 90 \mbox{S} and 90 \mbox{N} " .	(3)
d. i. What causes light flattening of the earth at the poles?	(1)
ii. State two effects of west two east rotation of the earth.	(2)
Q4.a.What do you mean by the crust of the earth?	(2)
b. What causes orogenic movements?	(2)
c i. Distinguish between Igneous rocks and Sedimentary rocks.	(1)
ii. Why are sedimentary rocks also called the secondary rocks?	(2)
d. i. How is a crater formed?	(1)
ii. Mention two effects of Earthquakes.	(2)

Q5.a.	Mention any four factors that determine the circulation pattern of ocean currents.	(2)
b.	State any two features of Gulf Stream.	(2)
c.	Give reasons why are the coast of Newfoundland dangerous for navigation.	(3)
d.	Mention three effects of ocean currents.	(3)
Q6.a.	What is the Coriolis effect?	(2)
b.	Why does the Alaskan coast remain ice free in winter?	(2)
c.	In Asia, Japan is the largest exporter of fishes. Explain.	(3)
d.	Why is the water of South Atlantic near 40 °S is yellow muddy.	(3)
Q7.		
a.	Mention the importance of ozone layer.	(2)
b	State the importance of greenhouse gases.	(2)
c.	What will be the effect of global warming on the poles?	(3)
d		(3)
Q8.		
a.	Explain why temperature varies with latitude.	(2)
b	. Why are slanting rays less effective in heating the atmosphere than vertical rays?	(2)
c.	With the help of a diagram explain the slope of a mountain affects the temperature.	(3)
d	. What is the effect of cloudiness on temperature?	(3)
Q9.		
a.	What do you understand by local winds?	(2)
b.	Name any two local winds.	(2)
c.	With the help of a diagram explain the mechanism of monsoon in India.	(3)
d.	What is convection rainfall? Explain.	(3)
Q10		
a.	What do you understand by pollutants?	(2)
b	. Mention the natural pollutants.	(2)
c.	What are the harmful effects of dissolved impurities present in the water? Explain.	(3)
d		(3)
Q11.		
a.	Mention four sources of noise pollution?	(2)
b.		(2)
c.		(3)
d.		(3)

Remove Watermark Nov

[7]

XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80 Sub:- Hindi Language Time: 3 hrs.

- 1. निम्नलिखित में सिक्रसी एक विषय पर लगभग २५०-३०० शब्दों में निबंध लिखें: [15]
- क) प्रात:कालीन भ्रमण साक्रया-क्या लाभ हैं ?क्या आप प्रात:कालीन भ्रमण पर जाता हैं ? उस समय का दृश्य का होता ह□वर्णन करें।
- ख) नौकरियों में आरक्षण साम्छत्पन्न होनद्वाली समस्या तथा इसक्यसमाधान क्यउपायों का उल्लाख करता हए एक प्रस्ताव लिखिए।
- ग) समाचार-पत्र समाज का मष्टदंड हैं, इस कथन क्घआलोक में समाचार-पत्रों की उपयोगिता का वर्णन कीजिय□
- घ) '□ भ्यास मनुष्य को परिपक्व बना दता ह□इस बात को सिद्ध करताद्भुए एक कहानी लिखिए |
- च) नीचिव्यदिए गयिवत्र को ध्यान सद्धाखकर मन में उठनद्वालध्यावों को किसी घटना या कहानी क्यमाध्यम सिव्यतिखए —



- 2.निम्नलिखित में स🏻 किसी एक विषय पर पत्र लिखिए जो लगभग 120 शब्दों में हो |
- क) आपका मित्र हम्रा बीमार हो जाता ह्य उसाप्रत्र द्वारा नियमित व्यायाम और योगाभ्यास करनाक्की सलाह दीजिया
- ख) □ पनाप्रधानाचार्य को छात्रवृति क्यालिए आवद्मन पत्र लिखिए और उसमें □ पनाप्रर की आर्थिक स्थिति को भी स्पष्ट कीजिए।
- 3. नीचाबिए गद्यांश को पढकर उसकानीचालिखाप्रश्नों काउत्तर हिंदी में दीजिए | उत्तर यथासंभव □ पनाशब्दों में दीजिए |

प्राचीन काल में विद्यार्थी शहर सा लग गुरुकुल में रहताअऔर समावर्तन संस्कार होनापर ही घर लौटकर गृहस्थ जीवन में प्रविद्या करताअण आजकल विद्यार्थी घर पर रहकर भी विद्योपार्जन कर सकता हाऔर यदि छात्रावास में भी रहता हातो यातायात की सुविधा का कारण घर का सम्पर्क में □ धिक रह सकता हा आधुनिक काल काविद्यार्थी को वह निर्द्वन्द्ता नहीं, जो पहला काविद्यार्थियों को थी। पहला जमाना का विद्यार्थियों का शहरी वातावरण सा लग रहना का काविद्यार्थियों का स्वाप्त स्वप्त स्वाप्त स्वाप

प्रकृति सासीधा संपर्क □ धिक रहता था।

दूसरा □ंतर इस बात का हाकि प्राचीन काल का विद्यार्थी सद्या साविद्योपार्जन करता था, आजकल का विद्यार्थी धन साविशक्षा की झांकी दिवाहुए गुप्त जी लिखताहुँ, "पहलाजमानामें गुरु और शिष्य का आध्यात्मिक और निजी सम्बन्ध होता था।" तभी तो कबीर नागुरु को गोविन्द सा धिक महत्ता दी हाऔर तुलसी नागुरु पदपराग को आँखों का □ंजन बनाया हा आजकल का विद्यार्थी गुरुओं को □ पना क्रीतदास समझताहुँ, यहाँ तक कि कि कि सम्राट रवीन्द्रनाथ ठाकुर ना □ पनाप्रारंभिक शिक्षा काल की गुलाम राज्य सामुलना की हा पहलाविद्यार्थी स्वयं को गुरु का दास समझता था। भगवान कृष्ण को भी सुदामा कासाथ लकड़ी बीननाजाना पड़ता था। पहला गुरुकुलों में इस सद्यावृत्ति काकारण जो साम्यभाव था वह आजकल नहीं हा प्राचीन काल में गुरु सद्या काकारण गुरु कासाथ निजी संपर्क का भी प्राचुर्यमय प्रसार था। विद्यार्थी गुरु परिवार का ही एक सदस्य बन जाता था। गुरु कुलपित कहलाता आ आजकल तो गुरु-शिष्य का सबंध कुछ-कुछ मशीनी हो गया हा विशाषकर ऊँचाद कें में, जहाँ पर कि गुरु-विद्यार्थी कादिखाए नोटों पर निर्भर रहता हा

हम यह नहीं कहतािक प्राचीन प्रथा की ही पुनरावृत्ति हो | उसमें थोड़ा दोष भी था कि विद्यार्थियों को संसार का 🗆 पद्माकृत ज्ञान कम होता था | लिक हम 🗅 पनािवद्यार्थी जीवन में प्राचीन काल की बहुत-सी बातों को 🗅 पना सकताहैं; जष्माः प्रकृति साः धिक माना बढ़ाएं, गुरु-शिष्य में निजी सबंध स्थापित हो | हमारािवद्यार्थियों में गुरु काः प्रति आदर और विनय की भावना बढ़ाः

निमृलिखित प्रश्नों क्यउत्तर दीजिया

[10]

- क) प्राचीन काल और आधुनिक काल क्वविद्यार्थियों में क्या 🛘 तर ह्□
- ख) पहलाजमानामें शिष्यों और गुरु का कासा सम्बन्ध था ?
- ग) गुरुकुल परम्परा में साम्यभाव क्यों था ? उदाहरण सहित स्पष्ट कीजिय□
- घ) आज काविद्यार्थी और गुरु कासम्बन्ध की क्या विश्वाता हा उससाक्र्या हानि होती हा
- ङ) लाखक का□ नुसार आज काविद्यार्थियों को प्राचीन काल की किन बातों को □ पनाना चाहिए और क्यों ?

4. निर्देशानुसार उत्तर दें :

- क) किन्हीं दो क्यविलोम शब्द लिखें: [1] दृषित , सात्विक , जनहित |
- ख) किन्ही दो क्घपर्यायवाची लिखें : [1] सोना , हाथ , हाथी |
- ग) किन्ही दो मुहावरों का □ र्थ स्पष्ट करताहुए वाक्य बनाएं : [2] सब्ज बाग दिखाना , हवा साम्रातें करना , हाथ खींचना |
- घ) किन्हीं दो शब्दों को भाववाचक संज्ञा में बदलिए :
- ्रांत , संक्रमित , व्यवस्थित ।
- ङ) निर्देशानुसार वाक्य परिवर्तन कीजिय 🛮 🧎 🥦 📜 🥞
- i. लिकन हम 🛘 पनाविद्यार्थी जीवन में प्राचीन काल की बहुत-सी बातों को 🗖 पना सकता हैं | (प्राचीन काल साम्राक्य की शुरुआत करें)
- ii. यातोग आपकापुरानामित्र हैं। आपकाज्यादा काम आएँगा (एक ही वाक्य में लिखें)
- iii. वह रोता-रोता हँसनाः नी। (वाक्य शुद्ध कीजिय

Remove Watermark

XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80 Sub:-Hindi Time: 3 hrs.

1. निम्नलिखित में साकिसी एक विषय पर लगभग 250-300 शब्दों में निबंध लिखें:

[15]

- क) प्रात:कालीन भ्रमण सक्क्या-क्या लाभ हैं ?क्या आप प्रात:कालीन भ्रमण पर जाति ? उस समय का दृश्य कक्सा होता हµवर्णन करें |
- ख) नौकरियों में आरक्षण साउँत्पन्न होनद्वाली समस्या तथा इसक्यसमाधान क्यउपायों का उल्लाख करता हुए एक प्रस्ताव लिखिए।
- ग) समाचार-पत्र समाज का मष्टदंड हैं, इस कथन क्घआलोक में समाचार-पत्रों की उपयोगिता का वर्णन कीजिय□
- घ) '□ भ्यास मनुष्य को परिपक्व बना दता ह□इस बात को सिद्ध करताद्भुए एक कहानी लिखिए |
- च) नीचिव्यदिए गयिवत्र को ध्यान सद्धाखकर मन में उठनद्वालध्यावों को किसी घटना या कहानी क्यमाध्यम सिव्यतिखए —



2.निम्नलिखित में सधिकसी एक विषय पर पत्र लिखिए जो लगभग 120 शब्दों में हो |

- [7]
- क) आपका मित्र हमा बीमार हो जाता ह्य उसापत्र द्वारा नियमित व्यायाम और योगाभ्यास करनाकी सलाह दीजिया
- ख) □ पनाप्रधानाचार्य को छात्रवृति क्यलिए आवद्मन पत्र लिखिए और उसमें □ पनाप्रर की आर्थिक स्थिति को भी स्पष्ट कीजिए।
- 3. नीचाबिए गद्यांश को पढकर उसकानीचालिखाप्रश्नों काउत्तर हिंदी में दीजिए | उत्तर यथासंभव □ पनाशब्दों में दीजिए |

प्राचीन काल में विद्यार्थी शहर सा लग गुरुकुल में रहताआऔर समावर्तन संस्कार होनापर ही घर लौटकर गृहस्थ जीवन में प्रवाध करताआ आजकल विद्यार्थी घर पर रहकर भी विद्योपार्जन कर सकता हाऔर यदि छात्रावास में भी रहता हातो यातायात की सुविधा का कारण घर का सम्पर्क में □ धिक रह सकता हा आधुनिक काल का विद्यार्थी को वह निर्द्धन्द्ता नहीं, जो पहला का विद्यार्थियों को थी। पहला जमाना का विद्यार्थियों का शहरी वातावरण सा लग रहना का का सम्मान का विद्यार्थियों का शहरी वातावरण सा लग रहना का का विद्यार्थियों का थी। पहला का सहा का विद्यार्थियों का शहरी वातावरण सा लग रहना का का स्वाधिकारण

प्रकृति सासीधा संपर्क 🛮 धिक रहता था ।

दूसरा □ंतर इस बात का हाकि प्राचीन काल का विद्यार्थी सद्या साविद्योपार्जन करता था, आजकल का विद्यार्थी धन साविशक्षा की झांकी दिवाहुए गुप्त जी लिखताहुँ, "पहलाजमानामें गुरु और शिष्य का आध्यात्मिक और निजी सम्बन्ध होता था।" तभी तो कबीर नागुरु को गोविन्द सा धिक महत्ता दी हाऔर तुलसी नागुरु पदपराग को आँखों का □ंजन बनाया हा आजकल का विद्यार्थी गुरुओं को □ पना क्रीतदास समझताहुँ, यहाँ तक कि कि कि सम्राट रवीन्द्रनाथ ठाकुर ना □ पनाप्रारंभिक शिक्षा काल की गुलाम राज्य सामुलना की हा पहलाविद्यार्थी स्वयं को गुरु का दास समझता था। भगवान कृष्ण को भी सुदामा कासाथ लकड़ी बीननाजाना पड़ता था। पहला गुरुकुलों में इस सद्यावृत्ति काकारण जो साम्यभाव था वह आजकल नहीं हा प्राचीन काल में गुरु सद्या काकारण गुरु कासाथ निजी संपर्क का भी प्राचुर्यमय प्रसार था। विद्यार्थी गुरु परिवार का ही एक सदस्य बन जाता था। गुरु कुलपित कहलाता आ आजकल तो गुरु-शिष्य का सबंध कुछ-कुछ मशीनी हो गया हा विशाषकर ऊँचाद कें में, जहाँ पर कि गुरु-विद्यार्थी कादिखाए नोटों पर निर्भर रहता हा

हम यह नहीं कहतािक प्राचीन प्रथा की ही पुनरावृत्ति हो | उसमें थोड़ा दोष भी था कि विद्यार्थियों को संसार का 🗆 पद्माकृत ज्ञान कम होता था | लिक्किन हम 🗅 पनािवद्यार्थी जीवन में प्राचीन काल की बहुत-सी बातों को 🗅 पना सकताि ; जष्माः प्रकृति साः धिक मान्नाजोल बढ़ाएं, गुरु-शिष्य में निजी सबंध स्थापित हो | हमाराविद्यार्थियों में गुरु काः प्रति आदर और विनय की भावना बढ़ाः

निमृलिखित प्रश्नों क्यउत्तर दीजिय□

[10]

- क) प्राचीन काल और आधुनिक काल क्वविद्यार्थियों में क्या 🛘 तर ह्□
- ख) पहलाजमानामें शिष्यों और गुरु का कासा सम्बन्ध था ?
- ग) गुरुकुल परम्परा में साम्यभाव क्यों था ? उदाहरण सहित स्पष्ट कीजिय□
- घ) आज काविद्यार्थी और गुरु कासम्बन्ध की क्या विश्वाता हा उससाक्र्या हानि होती हा
- ङ) लाखक का□ नुसार आज काविद्यार्थियों को प्राचीन काल की किन बातों को □ पनाना चाहिए और क्यों ?

4. निर्देशानुसार उत्तर दें :

- क) किन्हीं दो क्यविलोम शब्द लिखें : [1] दूषित , सात्विक , जनहित |
- ख) किन्ही दो क्यपर्यायवाची लिखें : [1] सोना , हाथ , हाथी |
- ग) किन्ही दो मुहावरों का 🛘 र्थ स्पष्ट करताङ्कुए वाक्य बनाएं : [2] सब्ज बाग दिखाना , हवा साम्रातें करना , हाथ खींचना |
- घ) किन्हीं दो शब्दों को भाववाचक संज्ञा में बदलिए : [1]
- ङ) निर्देशानुसार वाक्य परिवर्तन कीजिय🛘 [3]
- i. लिकिन हम 🗆 पनिवद्यार्थी जीवन में प्राचीन काल की बहुत-सी बातों को 🗅 पना सकति हैं | (प्राचीन काल सिद्धाक्य की शुरुआत करें)
- ii. यालोग आपकापुरानामित्र हैं। आपकाज्यादा काम आएँगा। (एक ही वाक्य में लिखें)
- iii. वह रोता-रोता हँसना्कर्गी । (वाक्य शुद्ध कीजिया)

<u>(गद्य-संकलन)</u> किन्ही चार प्रश्नों काउत्तर दें।

निम्न गद	ग्रांश को ध्यानपूर्वक पढ़ें तथा उसक्छनीचािलखासभी प्रश्नों क्छउत्तर लिखें :-	
Q1).	रसीला नाउपनजान का हठ दाखा तो आँखें भर आईं ।बोला, "घर साउवत आया ह□बच्चाबीमार हैं,	
	और रुपया नहीं ह🗉।	
क)	रसीला कौन ह्यवह किससाबात कर रहा ह्य	[2]
ख)	रमज़ान कौन हाग्रउसका परिचय संक्षप्र में लिखें।	[2]
ग)	रसीला की आँखें क्योँ भर आईं? कारण लिखताह्नुए बताएं कि वह किस पराष्ट्र्यानी में ह $oldsymbol{n}$	
घ)	रसीला की पराशानी में उसका∐मेत्र नाधिकस प्रकार उसकी मदद की? सच्चाधित्र की पहचान	
	क्यसम्बन्ध में 🛘 पनाविचार व्यक्त करें।	[3]
	जर एक बार ऐसा हुआ कि मूर्ति क्यच ह रापर कोई भी, क्या भी चश्मा नहीं था।उस दिन पान की	
	कान भी बंद थी। चौराहाकी □धिकांश दुकानें बंद थीं।	
	मूर्ति क्यच्ह्ररापर चश्मा क्योँ नहीं था? चश्मा न दाख्यकर हालदार साहब को क्या लगा?	[2]
	चौराहापर किसी ना की मूर्ति लगानाका उद्देश्वय लिखिए ।	[2]
	आप 🛮 पनाइलाक्यमें किस व्यक्ति की मूर्ति स्थापित करना चाहेंगाऔर क्योँ?	[3]
घ)	चौराहाकी □ धिकांश दुकानें बंद क्योँ थीं? कहानी में कप्र्यन की क्या भूमिका हा	[3]
Q3) "ज	ाओ और उसकी सहायता करक्¤लौट आओ। तुम्हारा सामान यहीं रह्णा। तुमको □ भी यहीं रहना	
	ोगा,समझ□ □ भी तुमको मार्षी संरक्षता की आवश्यकता हा□उठो नहा-धो लो। जो ट्रांट मिल्□	
उ	ससाप्रदना जाकर ब्रजिकशोर की चालाकियों सामनोरमा की रक्षा करों" ।	
क)	वक्ता श्रोता साक्रिसकी रक्षा करनाक्ष्यालिए कह रही हाओर क्योँ? स्पष्ट करें।	[2]
ख)	'संरक्षता की आवश्यकता' सामक्ता का क्या तात्पर्य हण्वदो पंक्तियों में स्पष्ट करें।	[2]
ग)	वक्ता कामनोरमा काबारामें क्या विचार था वह रामनिहाल काविचारों साक्र्यों सहमत नहीं थीं?	
	समझाकर लिखें ।	[3]
घ)	ब्रजिकशोर कौन हैं ? उनका चरित्र – चित्रित करें ।	[3]
	<u>(पद्य- संकलन)</u>	
O4) ज	सोदा हरि पालनाद्भुलावा	
	सरावµदुलराइ मल्हावµजोइ-सोइ कछु गावध।	
	रामाल को आउ निंदरिया, काहाम आनि सुवाव¤	
	काहामहिं बाग्रहें आवातोको कान्ह बुलावा।	
٠,	बहुँ पालक हरि मूंद ल ा हैं, कबहुँ □ धर फरकावध	
	ावत जानि मौन हवाक्कारहि, करि-करि स ष्ट बतावण	
	हे □ंतर 🛮 कुलाई उठा≣रि, जसुमति मधुरागाव🏻	
	सुख सूर □ मर मुनि दुर्लभ, सो नन्द भामिनी पाव□।	
	नन्द भामिनी द <u>ा</u> वता तथा मुनियों सा धिक भाग्यशाली क् <u>रा</u> साह्य स्पष्ट करें।	[2]
	हरि कौन-कौन सी चष्ट्राएँ करताहैं और क्योँ? समझाकर लिखें।	[2]
ग)	यशोदा किसापालनामें झुला रही हैं और क्योँ? उनका परिचय दें।	[3]
घ)	वह कृष्ण को सुलानक्ष्मालिए क्या-क्या उपाय करती हैं? समझाकर लिखें।	[3]

JA V	rma	

[3]

Q9). राजा क्वादरबार में , जद्यासमया पाय। साईं तहाँ न बिक्ठेय□जहँ कोउ दृष्ट उठाय।। जँह कोउ दृष्ट- उठाय, बोल □ नबोलाद्रहिए। हँसियात्रहीं हहाय बात पूछात्राक्कहिया कह गिरिधर कविराय समय सो कीजाक्काजा। □ ति आतुर नहीं होय, बहुरि □ नखाईं राजा।।	
क) राजा क्यदरबार में कहाँ नहीं बष्टना चाहिए और क्योँ? ख) कवि नद्धरबार में कब बोलना और कब न बोलना की सलाह दी हा ग) कवि क्य□ नुसार राजा क्यदरबार में और किन-किन नियमों का पालन करना चाहिए और क्योँ? घ) इस कुंडली साआपना स्था शिक्षा ग्रहण की? स्पष्ट करें।।	[2] [2] [3] [3]
Q10).झरना नक्क झरत□िजसकी पहाड़ियों में, चिड़ियाँ चहक रही हैं, हो मस्त झाड़ियों में, □ मराइयाँ घनी हैं, कोयल पुकारती हा बहती मलय पवन ह□तन -मन सँवारती हैं। वह धर्मभूमि मार्री, वह कर्मभूमि मार्री। वह जन्मभूमि मार्री, वह मातृभूमि मार्री।	
वह जन्ममूम मधा, वह मातृमूम मधा। क) यहाँ झरनµ पहाड़ियों और चिड़ियों सक्कवि का क्या तात्पर्य ह्य ख) '□ मराइयाँ' सक्कवि का क्या तात्पर्य ह्य कोयल कब पुकारती ह्य स्पष्ट करें। ग) मलय पवन का □ र्थ स्पष्ट करति हुए बताइयिक वह तन- मन को क्यसि वारती ह्य घ) धर्मभूमि और कर्मभूमि सक्कवि का क्या तात्पर्य ह्य समझाएं।	[2] [2] [3] [3]



XAVIER SCHOOL, GAMHARIA

3rd Term Exam-2018-19

Class: IX F.M-80 Sub:- History & Civics Time: 2 hrs.

NOTE- Attempt all questions from Part I and two questions from Section A and three questions from Section B.

PART I (CIVICS)

All questions carry ONE mark :-	10
a) What do we mean when we say that Fundamental Rights are justiciable?	

- b) Mention one Directive Principle which suggests that India is a Welfare State.
- c) Mention two examples of indirect elections.
- d) What is meant by "Gram Panchayat"?
- e) What do you mean by Fundamental Rights?
- f) How can the Chief Election Commissioner be removed from his office?
- g) What is the important function of Municipal Corporation in the field of Public Health and Sanitation?
- h) Mention any one need for Elections.
- i) What do you mean by 'Welfare State'?
- j) What is meant by Universal Adult Franchise?

HISTORY

20

3

- Q2. Each question carries TWO marks :
 - a) Mention the evidences which suggest that Harappan people had trade relations with other countries.
 - b) What does the Shiv Pashupati seal depict?
 - c) What does the Rigveda contain?
 - d) What is meant by Sale of Indulgences?
 - e) Who wrote Tirukkural? What are the three main topics the author deals with?
 - f) Who was Mirabai? What was her message to the people?
 - g) Mention any one historic merit of the St. Francis Assisi Church at Kochi.
 - h) What is meant by 'Industrial Revolution'?
 - i) Mention any two measures taken by Ala-ud-din Khilji for the control of market.
 - j) Give one evidence to suggest that the Brihadeswara Temple is a responsibility of every branch of art.

PART II

Attempt TWO questions from SECTION A.

SECTION - A

- Q3. A Constituent assembly had been set up to enact the constitution of Free India. In this context, answer the following:
 - a) What is meant by constitution?
- b) What is the significance of January 26 in India's struggle for freedom?
- c) Explain the feature of Single Citizenship granted in the Constitution.

Q4. With the reference to Elections and Election Commission explain –	
a) Define Elections.	3
b) Composition of Election Commission	3
c) Essential differences between Direct and Indirect elections.	4
Q5. At the top level in the Panchayati Raj System there stands the Zila Parishad. In this context, answ	ver the
following questions:-	
a) What do you mean by 'Zila Parishad'?	2
b) What are the Civic Facilities and Welfare Functions?	4
c) What are the Coordination and Supervisory Functions of Zila Parishad.	4
SECTION B	
Attempt any THREE questions from this section.	
Q6. With the reference to the Reformation and the consequences of the Industrial Revolution and the following questions-	swer
 a) How did the spread of New Learning and Spirit of Inquiry become a factor leading to the religious movement called Reformation? b) Explain the differences between Capitalism and Socialism under the following headings- i) Private Ownership versus State Ownership. ii) Welfare activities versus No Safety – Net. 	4 3 3
Q7. Harrapan Civilisation was a highly developed urban civilisation. In this context, explain :- a) The Town planning b) The drainage system c) Two causes for the decline of the Harappan Civilisation.	4 4 2
Q8. With regard to the Vedic Civilisation, answer the following :- a) Role of Iron in Later Vedic Economy b) A comparative study of the Early (Rig Vedic) and Later Vedic Ages in the following context i) Society ii) Economic Life	4 xt. 3 3
Q9. Two great religious movements arose around 6 th century B.C. With this reference answer the following questions: a) Explain ' Jatakas'. b) Causes for the Rise of Jainism and Buddhism. c) The Four Noble Truths advocated by Gautama Buddha.	2 4 4

XAVIER SCHOOL, GAMHARIA

3rd Term Exam-2018

Class: IX F.M-80
Sub:- Mathematics Time: 2 hrs.

Attempt all Questions from Section A and any Four Questions from Section B.

All working including rough work must be clearly shown and done on the same sheet as the rest of the answer omission of essential working will result in less of marks.

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. (3+3+4)

(a) Find a and b. if:

$$\frac{3-\sqrt{5}}{3+2\sqrt{5}} = -\frac{19}{11} + a\sqrt{5}$$

- (b) If $a = 2 + \sqrt{3}$, then find the value of $a \frac{1}{a}$.
- (c) A sum of money invested at compound interest doubles itself in 4 years, interest being payable annually. In how much time will it be eight-times.

Question: 2. (2 + 4 + 4)

- (a) If a+b+2c = 0 then prove that $a^3+b^3+8c^3=6abc$.
 - (b) Factorize the following-

(i)
$$a^2b - ab^2 + 3a - 3b$$

(ii)
$$3-12(c-b)^2$$

(c) Solve for x and y.

$$2x = 5y + 4$$

 $3x - 2y + 16 = 0$

Question: 3. (3+3+4)

- (a) Solve (3x + 1)(2x + 3) = 3
- (b) In the If $a^x = b^y = c^z$ and $b^2 = ac$, then prove that $y = \frac{2xz}{z+x}$
- (c) Four year ago marina was three times old as her daughter; Six years from now the Mother will be twice as old as her daughter. Find their present age.

(a) Solve for x.

$$Log_x 25 - log_x 5 + log_x \frac{1}{125} = 2$$

(b) A boy scored following marks in various class tests during a term. Each test being marked out of 20.

- (i) What is the mean of his marks?
- (ii) What is the median?

(c) Prove that:
$$\left(\frac{1}{1+a^{y-x}}\right) + \left(\frac{1}{1+a^{x-y}}\right) = 1$$

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

Question: 5. (4+3+3)

- (a) Prove that the line segment joining the midpoints of any two sides of a triangle is parallel to
 - (b) Find the area and perimeter of a square whose diagonal is 10 cm long.
 - (c) Evaluate:

$$\frac{\sin 72^{\circ}}{\cos 18^{\circ}} + \frac{\sec 32^{\circ}}{\csc 58^{\circ}}$$

(ii)
$$\frac{\sin 30^{\circ} - \sin 90^{\circ} + 2\cos 0^{\circ}}{\tan 30^{\circ} \times \tan 60^{\circ}}$$

the third side and equal to half of it.

Question: 6. (4+3+3)

- (a) In the adjoining figure AB ll DC, E and F are medians of AD and BD respectively, Prove that
 - (i) G is the mid-point of BC.

(ii)
$$EG = \frac{1}{2} (AB + DC)$$

- (b) The mean of 5 observations is 15.if the mean of first three observations is 14 and that of last three is 17, find the third observation.
- (c) Draw histogram for the following:

Question: 7 (3+4+3)

- (a) If P and Q are point of trisection of the diagonal BD of a parallelogram ABCD, prove that CQ 11 AP
- (b) Name the type of quadrilateral formed by the following points and give reasons for your answer.

$$(-1,-2),(1,0),(-1,2),(-3,0)$$

(c) In an equilateral triangle prove that the centroid and circumcentre of the triangle coincide.

Question: 8. (3+3+4)

- (a) If the points A (4, 3) and B (x, 5) are on a circle with Centre C (2, 3), find the value of x.
- (b) Given: $3(\log 5 \log 3) (\log 5 2\log 6) = 2 \log n$, find n.
- (c) The sum of a two digit number and the number obtained by interchanging the digit is 132.if the two digits differ by 2. Find the numbers.

Question: 9. (3+3+4)

(a) If $5 \sin\Theta = 3$, find the value of

$$\frac{\sec\theta - \tan\theta}{\sec\theta + \tan\theta}$$

- (b) Find the circumference of the circle whose area is equal to the sum of the areas of three circles with radius 2Cm, 3Cm and 6 Cm.
- (c) Using ruler and compass only, construct a rectangle each of whose diagonals measures 6 Cm and diagonals intersect at an angle 45°

Ouestion: 10. (3+3+4)

(a) Solve:-
$$\frac{x+3}{x-1} = \frac{2x+1}{3x-5}$$

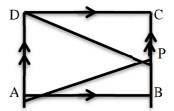
- (b) The population of a city is 320000.if the annual birth rate is 9.2% and the death rate is 1.7%.calculate population of the town after 3 years.
- (c) Construct a regular hexagon of side 2.5 Cm.

Remove Watermark Nov

Question: 11. (3+3+4)

(a) The wheel of a cart is making 5 revolutions per second. If the diameter of the wheel is 84 Cm, find its speed in Km/h. give your answer correct to the nearest Km.

(b) ABCD is a parallelogram and P is any point of BC. Prove that area of Δ ABP + area of Δ DPC = area of Δ APD.



(c) 3 Men and 4 boys can do a piece of work in 14 days, while 4 men and 6 boys can do it in 10 days. How long would it take 1 boy to finish the work?



XAVIER SCHOOL, GAMHARIA

3rd Term Exam-2018-19

Class: IX F.M-80 **Sub:-Moral Science** Time: 1 ½ hrs.

I. Answer each of the following questions using approximately hundred words. (10x5=50)

- 1. What according to you is happiness and what factors influence happiness?
- 2. What are the positive qualities a student should have? Enumerate them explaining any two.
- 3. Explain the kinds of fears you experienced so far and how you overcame u4. What are the positive feelings we must cultivate? Explain any two of them. Explain the kinds of fears you experienced so far and how you overcame them.
- 5. Success and Failures are part of life. Explain.
- 6. Name some of the family values that touched you and explain them.
- 7. Should you obey your teachers and parents? Explain why.
- 8. Explain with examples why listening is important.
- 9. What are the advantages of prayer? Write the dismissal prayer of your school.
- 10. How important is forgiving others when they do wrong against us? Explain with examples.
- II. Write your personal reflection on any two of the following questions in about 200 words each.
 - (2x15=30)
 - a) Imagine you have been made a world leader for a year. Write five problems you would focus on to make the world a happier place.
 - b) How important is forgiveness? Write some of your personal experience of forgiveness.
 - c) Write a summary of the lessons you have learnt in Moral Science class this year.



XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018-19

Class: IX F.M-80 **Sub:-Moral Science** Time: 1 ½ hrs.

- I. Answer each of the following questions using approximately hundred words.
- (10x5=50)

(2x15=30)

- 1. What according to you is happiness and what factors influence happiness?
- 2. What are the positive qualities a student should have? Enumerate them explaining any two.
- 3. Explain the kinds of fears you experienced so far and how you overcame them.
- 4. What are the positive feelings we must cultivate? Explain any two of them.5. Success and Failures are part of life. Explain.
- 6. Name some of the family values that touched you and explain them.
- 7. Should you obey your teachers and parents? Explain why.
- 8. Explain with examples why listening is important.
- 9. What are the advantages of prayer? Write the dismissal prayer of your school.
- 10. How important is forgiving others when they do wrong against us? Explain with examples.
- II. Write your personal reflection on any two of the following questions in about 200 words each.
 - a) Imagine you have been made a world leader for a year. Write five problems you would focus on to make the world a happier place.
 - b) How important is forgiveness? Write some of your personal experience of
 - c) Write a summary of the lessons you have learnt in Moral Science class this year.



XAVIER SCHOOL, GAMHARIA 3rd Term Exam-2018

Class: IX **F.M-80 Sub:- Physics** 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.

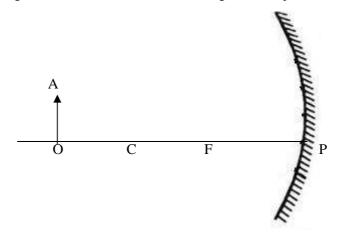
Question: 1. (2x5 = 10)

- (a) Name two units of mass bigger than Kg. How are they related to Kg.
- (b) How are following derived unit related to the fundamental units?
 - Newton (ii) Watt (iii) Pascal (iv) Joule.
- (c) When is a vernier calipers said to be free from Zero error?
- (d) Name two sources of carbon dioxide gas in the atmosphere.
- (e) State first law of thermodynamics? (2x5=10)
- Question: 2.
 - (a) Give an example of motion in which speed remains same but velocity changes.
 - (b) Name the S.I unit of heat. How is it related to Calorie?
 - (c) Name two substances which contract on heating.
 - (d) What type of mirror is preferred in automobiles to observe traffic at the back and why?
 - (e) What transformation of energy take place when current is drawn from a cell?

Ouestion: 3. Give reasons (2x5=10)

- (a) How is the resistance of a wire affected if its
 - Length is doubled. (i)
 - Radius is doubled. (ii)
- (b) A bulb draws current 1.5 A at 6 V.find the resistance of filament of bulb while glowing.
- (c) Describe two ways for the efficient use of energy?
- (d) Mention essential conditions for sound waves to travel in a medium.

(e) Draw the ray diagram to show the formation of image of an object OA.



Question: 4. (2x5=10)

- (a) What is meant by lateral inversion of an image in a plane mirror?
- (b) Deep pond of water has its top layer frozen during winter. State the expected temperature of water layer.
 - (i) Just in contact with ice.
 - (ii) At the bottom of the pond.
- (c) A ship submerges more as it sails from sea water to river water, explain.
- (d) A piece of wax floats on brine. What fraction of its volume is immersed? Density of wax = 0.95 g Cm^{-3} , Density of brine = 1.1 g Cm^{-3}
- (e) How is the upthrust related to the volumes of the body submerged in a liquid?

Section: B (40 Marks) Attempt any Four Question from Section II

Question: 5. (3+3+4)

- (a) A pendulum clock runs faster in winter and slower in summer. Give reason.
- (b) What Conclusion do you draw about the motion of an object if the displacement time graph for it is:
 - (i) A straight line parallel to the time axis_____.
 - (ii) A straight line inclined to time axis with a positive slope_____
 - (iii) A straight line inclined to time axis with a negative slope______.
- (c) State the newton's universal law of gravitation. State the importance of the Newton's law of gravitation.

- (a) State newton's Second law of motion and prove that it takes the mathematical form F = ma.
- (b) A body of mass 100 gm is projected vertically upwards with an initial velocity of 49 ms-1, find
 - (i) Force of gravity on the body.
 - (ii) Vertical height attained in the body.
- (c) A body weight 450 gf in air are 310 gf in water. Find
 - (i) The volume of the body.
 - (ii) Weight of the body in a liquid of relative density 1.2.

Question: 7 (3+3+4)

- (a) State Pascal's law of transmission of pressure. Name two application of Pascal's law.
- (b) Why do sea divers need special protective suit?
- (c) What is meant by the term buoyant? A block of wood is floating on water with its dimensions 50 Cm x 50 Cm x 50 Cm inside water. Calculate the buoyant force acting on the block, Take $g = 98 \text{ N Kg}^{-1}$

Question: 8 (3+3+4

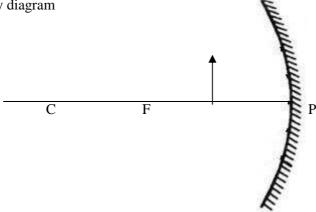
- (a) Give three advantage of using biogas as a fuel.
- (b) What do you understand by the term electric current? State and define S.I unit of electric current.

(c)

- (i) State the relation between electric current, no of electrons and time in S.I units.
- (ii) A bulb draws current 1.5 A at 6.0 Find the resistance of filament of bulb while glowing.

Question: 9 (3+3+4)

(a) Complete the ray diagram



Remove Watermark N

- (b) Derive the relationship for wave Velocity V, frequency f and wavelength λ .
- (c) A boy fires a gun and another boy is at a distance hears the sound of fire 2.5 s after seeing the flash. If the speed of sound in air is 340 ms⁻¹, find the distance between the boys.

Question: 10 (3+4+3)

- (a) The image formed by a convex mirror is of size 1/3 the size of object. How are U and V are related?
- (b) What is meant by efficient use of energy? State three ways for the efficient use of energy.
- (c) An object of length 4 Cm is placed in front of a concave mirror at a distance of Cm. The focal length of mirror is 15 Cm. where will the image form? What will be the size of the image?

Question: 11 (3+4+3)

- (a) Derive the relation between focal length and radius of curvature of a concave mirror.
- (b) A block of wood is so loaded that it just floats in water at room temperature .what changes will occur in the state of floatation, if
 - (i) Some salt is added to water.
 - (ii) Water is heated?
- (c) Explain the motion of a rocket with the help of newton's third law.