

SAINT JOHN'S ACADEMY
SUMMER ASSIGNMENT (2018-2019)
CLASS VIII

NOTE:- These assignments are to be done in separate answer sheets and submitted to the subject teachers on the first day when the school reopens.

ENGLISH LANGUAGE

- Q.1 Read the following paragraph and answer the questions.
Opera refers to a dramatic art form, originating in Europe, in which the emotional context is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in musical theatre, an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the elements of theatre such as scenery, costumes and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrumental ensemble to a full symphonic orchestra.
1. Name the dramatic art form mentioned in the passage. Where did it originate?
 2. Name the three primary elements of theatre.
 3. What is libretto?
 4. Name the two kinds of music.
- Q.2 You went to your friend, Shruti's house to borrow her Physics notes. Since she was not at home you left the message to her brother Ansh, that she may bring it tomorrow to school. Write a suitable message for Shweta.
- Q.3 Re-write the following sentences as directed.
1. I found my cat sitting under the table. (Identify the phrase and tell its kind)
 2. I like to eat fruits which are fresh. (Use adjective replacing the underlined words)
 3. His _____ helped him to achieve his goal. (Use abstract noun 'sincere')
 4. I gave a pair of bangles to my mother. (Find Direct and Indirect object)
 5. Wow what a lovely painting she has made. (Identify the type of sentence and do the punctuation)
 6. This huge building is owned by my uncle. (Use possessive form)
 7. This is my mobile. (Change possessive objective to possessive pronoun)
 8. She gave sweets to _____ of her class mates. (each/every)
 9. She is _____ than her sister. (short)
 10. I would prefer to hear the former P.M than the _____ one. (opposite of former)
- Q.4 What do you aspire to become in your life and what are you doing in order to achieve your aim. Write a paragraph on the same. (Stick a picture or draw it)

ENGLISH LITERATURE

- Q.1 Read the chapter 'The Tempest' from Sixteen Tales from Shakespeare. Write a few lines about each character of the chapter.
- Q.2 Give at least two meanings of the following words.
- | | | | |
|------------|-----------------|-----------------|-------------|
| a) stately | b) dedication | c) enthusiastic | d) utter |
| e) track | f) impressively | g) corresponded | d) innocent |
- Q.3 "But after a year or two we lost track of each other"
1. Who said these words and to whom?
 2. What separated the above two people from each other?
 3. Why did the speaker love track of the person spoken to.
- Q.4 Write a paragraph about Ruskin Bond. (Stick a picture also)

MATHEMATICS

1. Explain the following terms with examples.
 - a) Rational numbers
 - b) Commutative law of addition and multiplication
 - c) Distributive law of multiplication over addition and subtraction
 - d) Multiplicative property of zero
 - e) Additive identity and inverse
 - f) Multiplicative identity and inverse.

2. Find the values of n when:-

a) $\left(\frac{-3}{7}\right)^3 * \left(\frac{-3}{7}\right)^5 = \left(\frac{-3}{7}\right)^{(3n-4)}$

b) $\left(\frac{2}{3}\right)^{(n+5)} \div \left(\frac{2}{3}\right)^{(-2n+3)} = \left(\frac{2}{3}\right)^{(2n-5)} * \left[\left(\frac{2}{3}\right)^{-2}\right]^{(n+4)}$

3. Find the square root of the following correct upto 2 decimal places.

a) 57

b) 65

c) 87

4. Find the value of $\sqrt{15625}$ and hence evaluate $\sqrt{156.25} + \sqrt{1.5625} + \sqrt{0.015625}$

5. Find the least number which must be added to 7348 to obtain a perfect square. Find the perfect square number and its square root,

6. Simplify the following $(81)^{-1} * 3^{-5} * 3^9 * (64)^{\frac{5}{6}} * (3\sqrt{3})^6$

7. Multiply

(i) $(4x^2 - 4x + 1) \text{ by } (2x^2 + x - 2)$

(ii) $(3 - 2x + 5x^2) \text{ by } (5x - 4)$

8. Divide

(i) $(6x^3 + x^2 - 26x - 21) \text{ by } 3x - 7$

(ii) $(x^4 - 81) \text{ by } (x + 3)$

(iii) $(16x^4 - 81y^4) \text{ by } (2x - 3y)$

9. In a three dimensional figure

No. of faces = F

No. of edges = E

No. of vertices = V

then verify Eulers relation for the following 3D solid [F - E + V = 2]

(i) cube

(ii) Triangular prism

(iii) square pyramid

PHYSICS

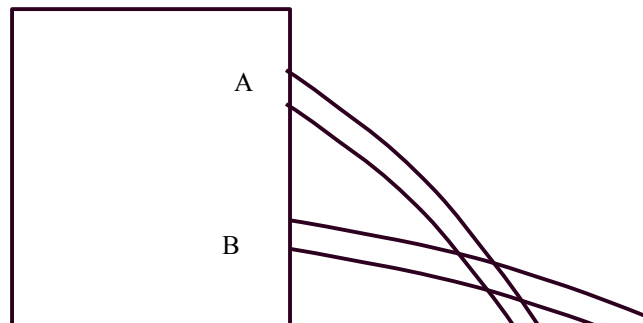
Q.1 A liquid can change into vapour state-

1. at a fixed temperature

2. At all temperatures

Name the process involved in two cases. (Also give two major differences between the process mentioned above.)

Q.2 Which fact about liquid pressure does the diagram given below illustrate. Expand your answer by comparing two points A and B. Take few examples from nature to support your answer.



Q.3 I) The density of a liquid is 600g/cm³. Express it in kg/ m³?

ii) Calculate the density of a solid from the following data –

a) mass of solid = 72g

b) Initial volume of water in measuring cylinder = 24ml.

d) Final volume of water in measuring cylinder = 42ml.

Q.4 Mention four substances from your surrounding which

a) Shows the change of state in normal temperature

b) Shows the change of state in high temperature.

Q.5 Give reason for the following-

a) Why doctors' advice to put strips of wet cloth on the forehead of a patient having high

fever

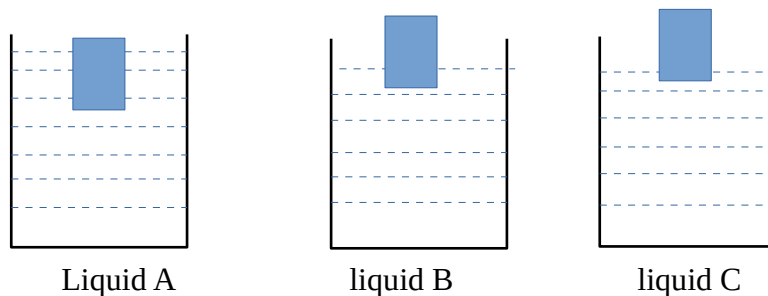
b) A certain amount of water placed on a dish evaporates faster than in a bottle.

c) Ice bergs are dangerous for the ships.

d) Why it is easier to open the door by pushing it at its free end.

Q.6 Explain the molecular model of matter while change of state take place. Also draw the diagram for each state.

Q.7 The diagram given below shows a body floating in three liquids A, B and C at different levels.



a) Why object in liquid A is immersed more as compared to liquid B and C.

b) Which liquid has got highest density and which has got least.

c) Under what condition the density of liquid depends.

CHEMISTRY

Q.1 With the help of a suitable diagram explain the change of states of matter, with respect to

1. Kinetic energy
2. Intermolecular force of attraction
3. Intermolecular space

(Use illustrations to express your answer)

Q.2 Write short notes on the following states of matter:

1. Plasma
2. Bose – Einstein condensate

Q.3 List down the uses of:

1. Liquid oxygen
2. Liquid nitrogen

(Name 2 more gases used as liquids)

Q.4 Explain with an experiment that the melting of wax is physical change. Observe the changes around you and make a list of these changes and categorize them into physical and chemical change. (At least 10 for each)

Q.5 Draw a table containing the formula of the following compound along with the elements present in them.

- | | | | |
|----------------------|--------------------|---------------------|------------------|
| 1. Water | 2. Ammonia | 3. Carbon dioxide | 4. Common salt |
| 5. Hydrochloric acid | 6. Magnesium oxide | 7. Sulphuric acid | 8. Calcium oxide |
| 9. Sodium hydroxide | | 10. Sulphur dioxide | |

BIOLOGY

Q.1 Explain the structure of a flower with the help of a neat labelled diagram. Write the functions of each part of a flower.

Q.2 If a dried and shrivelled vegetable is put in water, it starts looking fresh again. Why? How does water enter the vegetable? Explain with the help of a neat labelled diagram.

Q.3 Some indoor plants fight against the rising level of indoor air pollution. They absorb harmful gases and purify air inside homes and offices. Name few of them and explain their function and also stick their pictures.

Q.4 Name the following:

1. funnel-shaped muscular tubes through which a mature egg travels.
2. The organ in human female in which the foetus develops.
3. The fluid surrounding a developing embryo.
4. The time period between fertilization and birth.
5. Stage when menstruation and ovulation stops in female.
6. The structure connecting foetus to uterus.
7. The release of mature egg from an ovary.
8. Female reproductive cells in human beings.

HISTORY & CIVICS

- Q.1 The capture of Constantinople by the ottoman Turks led to the beginnings of renaissance in Europe. With reference to this statement prepare a project report mentioning. (Use pictures to elaborate your answers)
- * The meaning of 'Renaissance'
 - * Collect pictures and information on the impact of Renaissance
 - * Rationalism
- Q.2 Explain the terms:
- a) Colonialism b) Imperialism c) Slave States
d) Feudalism e) Democracy
- Q.3 Imagine you were Aurangzeb's chief advisor. What advice would you give him to prevent the decline of the Mughal Empire and restore its former glory and stability. [Highlight his weaknesses and the ways to overcome them]
- Q.4 The Indian Parliament has two houses. Mention them also write the difference between their composition, Basic qualifications of its members and term.

GEOGRAPHY

- Q.1 Distinguish between the following terms with the help of diagrams and also draw the contour lines to show your differences clearly:
- a) Pass, saddle and Col
b) Dendritic, radial and trellised drainage.
- Q.2 Draw Conventional symbols used in a topographical sheet. (Any 10)
- Q.3 What is Population Density? Prepare a chart showing the countries with high population densities and locate these countries on an outline map of the world.
- Q.4 Define the following terms-
- a) Migration b) Emigration c) Contour lines
d) Population dynamics e) Dependency ratio

COMPUTER SCIENCE

- 1) Write the full form of following:
LAN, CAN, MAN, PAN, WAN, NIC, HTTP, WI-FI, TCP, IP
- 2) Explain following terms-
File server, Workstation, Network user
- 3) Explain Network Topology with diagram. Write the advantages and disadvantages of each topology.
- 4) What are the benefits of a network? Explain.
- 5) Paste the picture of any four Network hardwares and write a few lines about them.

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