



# DARUL HUDA ISLAMIC SCHOOL AL AIN

SUMMER HOLIDAY ASSIGNMENT 2019-'20

**GRADE-10**



**ENGLISH,**

(10 Marks)

1. Prepare a critical appreciation on the genre of William Wordsworth's poem of nature in about 150-200 words. You can use these sites for your research purpose. (Stick the work in notebook)

<https://luisgouveia.cm-serta.pt/uxjr/uvcg.php?pctn=5&qxparkr=176&sy808=poem-on-nature-in-english>

<https://pausalso.blogs.uv.es/nature-in-william-wordsworth-poems/>

(10 Marks)

2. Research on the latest inventions of technology and ventures in the UAE. Prepare a mini magazine consisting of 7-10 pages of A4 papers. (Attach the work in English notebook)

## A – Physics

### **D) Investigatory project:**

Magnetic therapy for healing has been around for centuries. Many ancient civilizations, such as the Greeks, Hebrews, Indians, Chinese and Egyptians, used magnets for medical purposes. It's only been recently that using magnets has come back into medical use. No one exactly knows how the magnets promote healing, but it's theorized that magnets

attract metal elements in the body, such as iron in blood, to increase blood circulation and therefore instigate healing.

### **Magnetic Resonance Imaging (MRI)**

Magnetic resonance imaging (MRI) is a noninvasive medical test that helps physicians diagnose and treat medical conditions.

Read more: [http://www.ehow.com/facts\\_5202264\\_uses-magnets-medicine.html](http://www.ehow.com/facts_5202264_uses-magnets-medicine.html)

<http://www.wikipedia.com>

[www.radiologyinfo.org/en/info.cfm?pg=bodymr](http://www.radiologyinfo.org/en/info.cfm?pg=bodymr)

and make a report on “**Magnetism in medicine**”

**OR**

**II)** Masdar City is one of the world’s most sustainable urban communities, a low-carbon development made up of a rapidly growing clean-tech cluster, business free zone and residential neighbourhood with restaurants, shops and public green spaces. Masdar City is a ‘greenprint’ for the sustainable development of cities through the application of real-world solutions in energy and water efficiency, mobility and the reduction of waste. Masdar City is open to the public and welcomes tourists, residents, students, academics, entrepreneurs, business leaders and investors to its collaborative environment, which encourages people to live, work and play sustainably.

Read more : <https://masdar.ae/en/masdar-city/the-city>  
[https://en.wikipedia.org/wiki/Masdar\\_City](https://en.wikipedia.org/wiki/Masdar_City)

and make a report on “**Masdar City**”

### **Rubrics:**

Inquistiveness	2
Collection of data	3
Analytical skill	2
Application	2
Conclusion	1

### III) Practicals:

Record the experiments as directed by your teacher.

### Chemistry

I. Prepare a power point presentation (PPT) on ‘acids and bases in our daily life’.

Areas to cover – Description including sources and uses of:

Acetic acid, aqua regia, boric acid, ascorbic acid, carbonic acid, citric acid, formic acid, muriatic acid, lactic acid, oil of vitriol, tannic acid, tartaric acid, uric acid, House hold ammonia, lye (caustic potash), lye (caustic soda),milk of magnesia and slaked lime.

Add images or videos.

Rubrics: Presentation (3), Content (3), Creativity (2) and Conclusion (2)

II. Practical - Record the following experiments.

- 1 A. Finding the pH of different samples by using pH paper or universal indicator.  
B. Studying the properties of acids and bases based on their reaction with litmus solution, zinc metal and solid sodium carbonate.
2. Performing and classifying different chemical reactions.
3. Observing the action of Zn, Cu, Al and Fe metals on the given salt solutions.
4. Study of the properties of acetic acid.
  
5. Study of the comparative cleaning capacity of a sample of soap in soft water and hard water.

## BIOLOGY

1. 21st September is observed as the World Alzheimer's day. Study about it and make a report on Alzheimer's disease.
2. Record the following experiments
  1. Preparing a temporary mount of a leaf peel to show stomata.
  2. Experimentally show that carbon dioxide is given out during respiration.
  3. Studying
    - a) Binary fission in Amoeba
    - b) Budding in yeast and Hydra.
  4. Identification of the different parts of an embryo of a dicot seed.

## MATHEMATICS

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1. Prove that  $3 + 5\sqrt{3}$  is irrational.
2. Use Euclid's division algorithm to find the HCF of 441, 567 and 693.
3. Find the zeroes of the quadratic polynomial  $x^2 + 7x + 10$ , and verify the relationship between the zeroes and the coefficients.
4. If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $p(x) = 4x^2 - 5x - 1$ , find the value of  $\alpha^2\beta$  and  $\alpha\beta^2$ .
5. Solve the pair of linear equations by graphical method, substitution method, elimination method and cross multiplication method.  
 $x + y = 14$  and  $x - y = 4$ .
6. A boat goes 12km up stream and 40 km downstream in 8 hours. It can go 16 km upstream and 32 km downstream in the same

time .Find the speed of the boat in still water and the speed of the stream .

7. Find two consecutive odd positive integers ,sum of whose square is 290.
8. Find the value of  $k$  for which the quadratic equation  $(3k + 1)x^2 + 2(k+1)x + 1 = 0$  has equal roots . Also ,find these roots.

### Islamic Studies

<b>X</b> <b>(To Memorize)</b>	<b>سورة عيس</b>
	<b>DUA DURING DIFFICULTIES</b> اللهم إني عبدك، ابن عبدك، ابن أمتك، ناصيتي بيدك، ماض في حكمك، عدل في قضاؤك، أسألك بكل اسم هو لك سميت به نفسك، أو علمته أحداً من خلقك، أو أنزلته في كتابك، أو استأثرت به في علم الغيب عندك، أن تجعل القرآن ربيع قلبي، ونور صدري، وجلاء حزني، وذهاب همي وغمي... وغمي...

### Moral Education

Moral education is a course aimed at encouraging students to develop their character, explore their values and be better prepared for adult life. The below given task is a community based assignment to develop a broader understanding of moral values that support the needy around us amidst our busy everyday life.

Do a research on The **Emirates Red Crescent** and prepare a detailed write-up in about 200-250 words including establishment, recognitions, range of humanitarian services, projects, volunteer management and productivity of community initiatives. Substantiate your description with appropriate evidences and photographs.

## Sub: Social Studies

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### Conduct a review on General Election in India-2019

**(States Wise Analysis** *(Total number of Lok Sabha seats in each state and number of seats secured by each political Party in 2019)*)

#### RUBRICS

DATA COLLECTION-4

ANALYSIS-4

PRESENTATION-2

### PROJECT ON CONSUMER PROTECTION ACT 1986 ( Economics )

-Index

-Introduction

-Definition of Consumer , Consumerism ,Complainant under the act.

-Need for the Act.

-Purpose of the Act.

-Consumer protection Act 1986.

-Features of the Act.

-Procedure of filing a complaint.

-Forums

-Case study (any one)

-Conduct a survey in your locality by supplying the following questionnaire to get an idea as how to alert they are as consumer.

**(NB: Project should be hand written)**

#### RUBRICS

ROLL NO	NAME OF THE STUDENT	Collection of data (4)	Observation (2)	Analysis & Interpretation (2)	Initiative (2)	Total

**QUESTIONNAIRE FOR SURVEY**

For each question, tick one.

Always

Sometimes

Never

	A	B	C
1. When you buy some item, do you insist on a bill?	-----	-----	-----
2. Do you keep the bill carefully?	-----	-----	-----
3. If you realize that you have been tricked by the Shopkeeper, have you bothered to complain to him.	-----	-----	-----
4. Have you been able to convince him that you've been Cheated?	-----	-----	-----
5. Do you simply grumble to yourself reconciling that it is Your fate that you are often being victimized so and it is nothing new.	-----	-----	-----
6. Do you look for ISI mark, expiry date etc?	-----	-----	-----
7. If the expiry date mentioned is just a month or so away, do you insist on a fresh packet?	-----	-----	-----
8. Do you weigh the new gas cylinder /old newspapers yourself before buying /selling?	-----	-----	-----
9. Do you raise an objection if a vegetable seller uses stones in place of the exact weight?	-----	-----	-----
10. Do excessively bright coloured vegetables arouses your suspicion?	-----	-----	-----
11. Are you brand conscious?	-----	-----	-----
12. Do you associate high price with good quality (to reassure yourself that after all you have not paid a higher price just like that?	-----	-----	-----
13. Do you unhesitatingly respond to catchy offers?	-----	-----	-----
14. Do you compare the price paid by you with those of others?	-----	-----	-----
15. Do you strongly believe that your shopkeeper never cheats a regular Customer like you?	-----	-----	-----

16. Do you favour 'home delivery' of provision items without any doubt  
regarding weight etc.

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