KENDRIYA VIDYALAYA JORHAT NO III (RRL)

**CHEMISTRY ASSIGNMENT FOR AUTUMN-BREAK:**

**HOLIDAY HOME WORK:**

1.Write All Formula Use In Chapter 1 , 2 & 3 (A-4 PAPER).

2 .A welding fuel gas contains carbon and hydrogen only. Burning a small sample of it in oxygen gives 3.38 g

carbon dioxide, 0.690 g of water and no other products. A volume of 10.0 L (measured at STP) of this welding

gas is found to weigh 11.6 g. Calculate (i) empirical formula, (ii) molar mass of the gas, and (iii) molecular

**3.** (i) The energy associated with the first orbit in the hydrogen atom is –2.18 × 10–18 J atom–1. What is the

energy associated with the fifth orbit?

(ii) Calculate the radius of Bohr’s fifth orbit for hydrogen atom.

**PROJECT WORK:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the students | Title of the project(name of chemist) | Sl.  No. | Name of the students | Title of the project(name of chemist) |
| 1 | ABHIGYAN HANDIQUE | Amedeo Avogadro | 22 | JYOTISHNA RABI DAS | [Michael Faraday](https://www.famousscientists.org/michael-faraday/) |
| 2 | ABHIGYAN SADHANIDAR | J. J. Thomson | 23 | KARAN PEGU | [John Dalton](https://www.famousscientists.org/john-dalton/) |
| 3 | ABHINAB KAKATI | [Ernest Rutherford](https://www.famousscientists.org/ernest-rutherford/) | 24 | KASTURI KRISHNAN | [Marie Curie](https://www.famousscientists.org/marie-curie/) |
| 4 | AKANKSHYA BORPATRA GOHAIN | [William Ramsay](https://www.famousscientists.org/william-ramsay/) | 25 | LETSANGLUN LUNKIM KHONGSAI | [Robert Bunsen](https://www.famousscientists.org/robert-bunsen/) |
| 5 | AKASH DEEP DUTTA | [C. V. Raman](https://www.famousscientists.org/c-v-raman/) | 26 | MANALI MISRA | [Georg Brandt](https://www.famousscientists.org/georg-brandt/) |
| 6 | ANKITA HAZARIKA | [William Perkin](https://www.famousscientists.org/william-perkin/) | 27 | MANASH PRATIM BORA | [Hennig Brand](https://www.famousscientists.org/hennig-brand/) |
| 7 | ANKITA YADAV | [Linus Pauling](https://www.famousscientists.org/linus-pauling/) | 28 | MARCHA KASHYAP | [Lawrence Bragg](https://www.famousscientists.org/lawrence-bragg/) |
| 8 | ARADHYA GOSWAMI | [Louis Pasteur](https://www.famousscientists.org/louis-pasteur/) | 29 | MONSUMITA NEOG | [Robert Boyle](https://www.famousscientists.org/robert%20boyle/) |
| 9 | ARHEE KASHYAP | [Alfred Nobel](https://www.famousscientists.org/alfred-nobel/) | 30 | MOSUMI BORA | [Niels Bohr](https://www.famousscientists.org/niels%20bohr/) |
| 10 | ARNOB JYOTI BHARALI | [Giulio Natta](https://www.famousscientists.org/giulio-natta/) | 31 | MRIGANKA KHOUND | [Jacob Berzelius](https://www.famousscientists.org/jacob-berzelius/) |
| 11 | ASISH SARMAH | [Henry Moseley](https://www.famousscientists.org/henry-moseley/) | 32 | NAINA VERMA | [Alessandro Volta](https://www.famousscientists.org/alessandro-volta/) |
| 12 | ASRITA GOSWAMI | [Dmitri Mendeleev](https://www.famousscientists.org/dmitri-mendeleev/) | 33 | NIHA NEOG | Fritz Haber |
| 13 | ASTHA KAUSHIK | [Ernest Lawrence](https://www.famousscientists.org/ernest-lawrence/) | 34 | PALLABI SAIKIA | Wilhelm Ostwald |
| 14 | ATREYEE PHUKAN | [Antoine Lavoisier](https://www.famousscientists.org/antoine-lavoisier/) | 35 | PRAGYAN SHARMA | August Kekulé |
| 15 | AYUSHMITA BORTHAKUR | [Stephanie Kwolek](https://www.famousscientists.org/stephanie-kwolek/) | 36 | SANSKRITI SARMAH | deBroglee |
| 16 | DEBASISH BORAH | [Martin Klaproth](https://www.famousscientists.org/martin-klaproth/) | 37 | SATYAJIT PATRA | Svante Arrhenius |
| 17 | DIGBIJOY BHATTACHARYYA | [Irene Joliot-Curie](https://www.famousscientists.org/irene-joliot-curie/) | 38 | SNEHA NEOG | Friedrich Wöhler |
| 18 | DIXITA KASHYAP | [George de Hevesy](https://www.famousscientists.org/george%20de%20hevesy/) | 39 | SYEDA ASMI ZAFFOR | Joseph Louis Gay-Lussac |
| 19 | HIMALIKA GOGOI | [Fred Hoyle](https://www.famousscientists.org/fred-hoyle/) | 40 | TANMOY PACHANI | Stanislao Cannizzaro |
| 20 | HIMANCHI SAIKIA | [Willard Gibbs](https://www.famousscientists.org/j-willard-gibbs/) | 41 | TRISHNA SAIKIA | Alfred Werner |
| 21 | ISANTH PANGYOK GOHAIN | [Rosalind Franklin](https://www.famousscientists.org/rosalind-franklin/) | 42 | UDIT DUTTA | Emil Fischer |

**ALLOTMENT OF CHEMISTRY PROJECT FOR CLASS – XI SESSION 2020-21**

**GENERAL INSTRUCTION:**

1. **Project report should have CHART excluding photo gallery.**
2. **You can use net or other sources for gathering information but don’t do copy paste work.**
3. **The last date for submission of project 31/10/2020.**
4. **Each report must be accompanied with photo gallery of project work.**
5. **In case of any doubt/clarification feel free to contact the undersigned at 7006926649 and [equilibrium6649@gmail.com](mailto:equilibrium6649@gmail.com).**
6. **No request for change topic will be entertained.**

**WISH YOU ALL HAPPY AUTUMN BREAK AND FRUITFULL STUDYING**

**S.K.RAVAT, PGT-CHEM**

**KV JORHAT NO III ,RRL JOTHAT/20-10-2020**

KENDRIYA VIDYALAYA JORHAT NO III (RRL)

**HOLIDAY HOME WORK FOR CLASS XI(MATHS)**

**1. Define Set and its different types with examples.**

**2. Define and explain the following functions through graphical representation:**

**(a) Identity Function (b) Constant Function (c) Polynomial Function (c) Modulus Function (d) Signum Function (e) Greatest Integer Function.**

**PROJECT/ACTIVITY (ATTEMPT ANY ONE)**

**A1. To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2n.**

**A2. To verify that for two sets A and B, n (A×B) = pq and the total number of relations from A to B is 2pq where n(A) = p and n(B) = q.**

The **evaluation of the project/activity** will be based on the following Rubrics:-

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Item** | **Marks** |
| **1** | **Quality & Lay out of the project.** | **10** |
| **2** | **Visual Presentation of the facts like Description/Content/ Picture/Map/Graph/Diagram/ Derivation etc.** | **20** |
| **3** | **Overall Presentation (Neatness, Handwriting and word limit etc.)** | **10** |
| **4** | **Assessment of the Project through Questionnaire (Google Form-10 MCQ or telephonic viva/ any other suitable methodology )** | **10** |
|  | **Total** | **50** |

**COMMON LAY OUT OF MATHEMATICS – PROJECTS**

1. **Cover Page**
2. **Certificate**
3. **Table of contents – Page Title**
4. **Title /topic of the Project**
5. **Objective of the Project.**
6. **Brief description of the project.**
7. **Pre requisite Knowledge.**
8. **Material / Resources required.**
9. **Planning /Procedures followed.**
10. **Mathematical Concept(s) Used.**
11. **Results (Analysis /Interpretation etc.)**
12. **Conclusions.**
13. **Acknowledgement.**
14. **List of references.**

**Note: You may add any other relevant points as per your project allotment.**

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KENDRIYA VIDYALAYA JORHAT NO III (RRL)

**PHYSICS ASSIGNMENT FOR AUTUMN-BREAK:**

**PRACTICE work:**

1. 3-Equations of Uniform Motion graphical method.
2. 3-Equations of Uniform Motion calculus method.
3. Triangle and parallelogram law graphical treatment.
4. Resolution of vector in a plane- rectangular components and magnitude of vector.
5. Resultant of vectors-analytical.

**PROJECT WORK:**

**Perform a Study and paper-work on the topics:**

-Projectile Motion. /To study the variation in range of a projectile with angle of projection.

**Or**

-Friction, types of friction / To measure the force of limiting friction for rolling of a roller on a horizontal plane.

**The evaluation of the project/activity will be based on the following Rubrics:**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Item** | **Marks** |
| **1** | **Quality & Lay out of the project.** | **10** |
| **2** | **Visual Presentation of the facts like Description/Content/ Picture/Map/Graph/Diagram/ Derivation etc.** | **20** |
| **3** | **Overall Presentation (Neatness, Handwriting and word limit etc.)** | **10** |
| **4** | **Assessment of the Project through Questionnaire (Google Form-10 MCQ or telephonic viva/ any other suitable methodology)** | **10** |
|  | **Total** | **50** |

**COMMON LAY OUT OF PHYSICS– PROJECTS**

1. **Cover Page**
2. **Certificate**
3. **Table of contents – Page Title**
4. **Title /topic of the Project**
5. **Objective of the Project.**
6. **Brief description of the project.**
7. **Pre requisite Knowledge.**
8. **Material / Resources required.**
9. **Planning /Procedures followed.**
10. **Scientific Concept(s) Used.**
11. **Results (Analysis /Interpretation etc.)**
12. **Conclusions.**
13. **Acknowledgement.**
14. **List of references.**

**Note: You may add any other relevant points as per your project allotment**

KENDRIYA VIDYALAYA JORHAT NO III (RRL)

**PROJECT & ASSIGNMENT FOR PT I**

CLASS : **XI**  SESSION : 2020-21

**PROJECT FOR PT I**

**1. Prepare a speech expressing your views on the topic “Modern gadgets Vs future generation” and make a video recording, in school uniform, delivering the speech coherently and with proper fluency. 20**

Please Note:

1. The video should not be of more than 2 minutes. Make sure to record in a silent place to avoid disturbances.
2. Memorize the speech and try to deliver spontaneously.
3. Depending on notes, while speaking, is strictly prohibited.
4. The speech should not be a copy of any speech in some book or website.
5. due weightage will be given for ORIGINALITY.

|  |  |  |
| --- | --- | --- |
| Sl No | **Parameters for Assessment** | **Marks** |
| 1 | **Interactive Competence**  **(initiation & Relevance to the topic)** | **5** |
| 2 | **Fluency**  **(Cohesion, Coherence & speed of delivery)** | **5** |
| 3 | **Pronunciation** | **5** |
| 4 | **Language ( Acuracy & Vocabulary)** | **5** |
|  | **Total** | **20** |

**ASSIGNMENT FOR PT I**

**1. Your school is organizing an inter House debate competition on the topic ‘Money is important for happiness’. You wish to take part in it. Draft the debate for / against the motion in about 200 words. 20**

**2. You wish to take admission in DAV Public school Dehradun. Write a letter to the school authority asking for different criteria for admission in class XI. 10**

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KENDRIYA VIDYALAYA JORHAT NO III (RRL)

*AUTUMN BREAK ASSIGNMENT XI BIOLOGY*

*1- What is the basis of classification of algae?*

*2- What is heterospory? Briefly comment on its significance. Give two examples.*

*3- What are the differences between pinus and cycas?*

*4- Draw haplontic, diplontic and haplo diplontic life cycle of plants.*

|  |  |
| --- | --- |
| *आटम ब्रेक गृह कार्य कक्षा X हिन्दी* | |
| *1* | *नमक का दरोगा कहानी का कौनसा पात्र आय को सर्वाधिक प्रभावित करता है और क्यों?* |
| *2* | *गाँव और शहर , दोनों जगहों पर चलते वाले मोहन के जीवन संघर्ष में क्या फर्क है?* |
| *3* | *कबीर की दृष्टि में ईश्वर एक हैं | इसके समर्थन में उन्होंने क्या तर्क दी हैं?* |
| *4* | *मायके आए बहन के लिए कवि ने घर को परिताप का घर क्यों कहा गयाहै* |

*Autumn break Homework Computer Science*

*Q1 What do you understand by lexical units in pythons. Give name of them?*

*Q2 Write basic rules of identifiers in pythons. Give 5 examples of legal and illegal identifiers?*

*Q3 What is variable in pythons?*

*Q4 Describe different types of data types in pythons with example?*

*\*Please do in your notebook\**

*Project work -Algorithm and Flowchart (Describe with one example )*

*Please do in your practical file*