**GENERAL INSTRUCTIONS**

1. Answer to questions carrying 1 mark can be from one word to one sentence.
2. Answer to questions carrying 2 marks can be from 15 to 30 words.
3. Answer to questions carrying 3 marks should be about 150 words.
4. Answer to questions carrying 4 marks should be about 200 words.
5. Attempt all parts of a question together.
6. How to treat policy affects decide deci
7. Managers all the block in work perform their controlling functions to keep a check on the activities in their respective areas of operation. Which function of management is being referred to in the above situation?
8. Q.12 What is meant by Risk Management?
9. Q.13 State two factors each to be considered for making financial decisions.
10. Q.14 Discuss the seven principles of management as given in the principles of management. Discuss briefly any three principles.
11. Q.15 Give any two remedies that can be made use of to control inflation.
12. Q.16 Shells Pvt. Ltd. was the distributor of neem products as they are rich in probiotics. Discuss. Which concept is being referred here?
13. Q.17 What was the key to your success in the last two months. This will help others to be motivator and support. It helped me set the right goals and also found the right opportunities. This helped me fulfill the responsibilities for the task that I was assigned.
14. Q.18 Draw a neat labelled diagram of a hurricane showing its different stages. Shells Pvt. Ltd. was the distributor of neem products as they are rich in probiotics. Discuss. Which concept is being referred here?
15. Q.19 Define Money Market and discuss its features.
16. Q.20 What would you like to tell future aspirants?
17. Q.21 Discuss two factors each to be considered for making financial decisions.
18. Q.22 What type of promotional tool is used by the company? Identify it and explain its technique.
19. Q.23 Bussard Ramjet Engine

**THE EXAM CELL, ST KABIR HIGH SCHOOL, AHMEDABAD, OFFERS YOU A BUSINESS STUDY PAPER AND PRACTICE TEST TO GET PERFECT**

**LEARN THE MANTOVA TO TOP IN BIZ**

**WHAT IS IT?**

What is your approach to the Bussard Ramjet Engine? What is the engine in a hypersonic travelling? It uses hydrogen as an input fuel and air to produce thrust; it is able to go at very high speed and is able to go at very high altitude. In the below diagram, we can see the different stages of a hypersonic vehicle. There are four stages to the vehicle. The first stage is the launch vehicle, which takes off from the launch pad, followed by the propulsion module, which provides the thrust necessary to reach the desired altitude. Then, the third stage is the scramjet engine, which burns hydrogen and air to produce thrust. Finally, the fourth stage is the re-entry vehicle, which returns to Earth to complete the mission.

**HOW WE WANT TO GO ABOUT IT**

Research and Development:

We have identified several companies that are working on hypersonic vehicles and are actively testing hypersonic propulsion systems. We have also conducted interviews with experts in the field and have read several academic papers and technical reports. We have also studied the different propulsion systems used in hypersonic vehicles, such as scramjets, ramjets, and ram-air rockets.

Market Analysis:

We have conducted market research to understand the demand for hypersonic vehicles and the companies that are currently operating in the market. We have also identified the primary competitors and how they are competing in the market. We have also conducted interviews with industry experts and have read several news articles and reports.

**WHAT ARE THE KEY FEATURES?**

We have identified several key features of the Bussard Ramjet Engine, such as its ability to fly at very high speed and very high altitude, its fuel efficiency, and its ease of maintenance. We have also identified the key challenges facing the development of hypersonic vehicles, such as the need for advanced materials and the need for additional testing and validation.

**POWDERED TO GO TO...**

- **Aerospace Component**
  - **Material:** Aluminum
  - **Shape:** Block
- **Verification Method**
  - **Method:** Optical Inspection
  - **Result:** Pass

**THE BRAIN PROJECT**

While doing research about the Bussard Ramjet Engine, we have learned about various other types of engines such as the ramjet engine and the scramjet engine. We under- stand the problem of the lack of development in space propulsion and its importance. The scramjet engine is an extremely efficient engine and is used in various applications. The ramjet engine is a simpler engine and is used in various applications.

**WHAT WE LEARNED**

- **The scramjet engine**
  - **Advantages:** High efficiency, low cost, and low maintenance.
  - **Disadvantages:** Limited speed and altitude.
- **The ramjet engine**
  - **Advantages:** High speed and altitude.
  - **Disadvantages:** High cost and maintenance.

**INGREDIENTS**

- **Salt**
- **Pepper**
- **Onions**
- **Tomatoes**

**METHOD**

Blend the fruits and milk until you get a smoothie. Top with some neatly sliced nuts. Mix some chunks of wood, cut them to pieces, use as fuel. It is also good to consume dairy products as they are rich in probiotics.

**WHAT IS SIMPLE SMOOTHIE?**

“Simply smoothie” is a wholesome drink. You can make it with some nuts and seeds such as flax and sunflower seeds and nuts like almonds, pistachios etc. While studying as it boosts energy and you can feel rejuvenated and energetic.

**Mock Papers**

**Bussard Ramjet Engine**

**My School Project**

**Stay calm and sleep well**

Describe the study plan that you are following for the board exams. How do you ensure you get ample sleep and keep your body in a healthy state? Are there any tips you would like to share for maintaining a healthy lifestyle?

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<tr>
<th>Subject</th>
<th>Marks</th>
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<tbody>
<tr>
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<td>Science</td>
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<tr>
<td>Computer Applications</td>
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**Table: Andromeda Galaxy**

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<tr>
<th>Number</th>
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<tr>
<td>Galactic core</td>
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<tr>
<td>40 Eridani</td>
<td>70,000</td>
<td>16.3</td>
</tr>
<tr>
<td>Alpha Centauri</td>
<td>4,300</td>
<td>3.6</td>
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**Table: Stars**

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass (M☉)</th>
<th>Luminosity (L☉)</th>
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<tbody>
<tr>
<td>Alpha Centauri</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Sirius</td>
<td>2.5</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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