**Project Management**

**September 2024 Examination**

**1. Ravi Verma owns a business specializing in handcrafted 100% dark chocolates. His chocolates are made using a unique blend of ingredients sourced from various regions of India, including Cocoa Beans, Sugar, Vanilla, and Salt. As of September 10th, 2024, all ingredients are available in his inventory except for Vanilla and Salt, which are on backorder. These two ingredients are expected to take 3 more days to arrive at inventory. Ravi placed an order for all the ingredients a week ago to fulfill an upcoming consignment of 500 chocolate bars. Currently, Ravi’s team members, Ankit and Priya, are roasting the cocoa beans, a process that takes approximately 2 days. Meanwhile, Aarav and Rohan are preparing the chocolate mix using available ingredients, they will complete this in 1 day time. Aradhya is in charge of setting up the packaging station, this plan of hers is expected to be finalized by the end of day. while Divya and Ishan have ordered custom packaging materials, which are expected to arrive in 3 to**

**4 days. Once the packaging materials arrive, they will commence the packaging process. Task/Activity Order:**

**• Order all ingredients.**

**• Store ingredients in inventory.**

**• Roast cocoa beans.**

**• Prepare chocolate mix.**

**• Set up packaging station.**

**• Order custom packaging materials.**

**• Package chocolates.**

**• Prepare for dispatch.**

**You can visualize this information on a task board for today (12th September 2024), organizing tasks in a linear order and tracking their progress as they move through different stages.**

**Ans 1.**

**Introduction**

Ravi Verma's entrepreneurial venture in producing handcrafted 100% dark chocolates epitomizes the intricate blend of art and business. Specializing in chocolates made from a unique selection of Indian-sourced ingredients such as Cocoa Beans, Sugar, Vanilla, and Salt, Ravi's business is a testament to the meticulous process of crafting quality confectionery. As of September 2024, Ravi faces the challenge of fulfilling an order of 500 chocolate bars, despite facing logistical hurdles with some ingredients and packaging materials on backorder. This scenario is a practical case study on the importance of efficient project management in small-scale manufacturing businesses. The ability to plan, coordinate, and execute multiple tasks with precision dictates the

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**2. Prepare the Gannt chart using MS EXCEL for the following activities.**

**In the following table activities are sequential in nature, any subsequent activity can start once Predecessor is majorly completed. This table contains starting and ending dates against each activity according to plan. Delayed taken places in almost all the activity, so their numbers are also provided in the table.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Plan Start**  **Date** | **Plan End**  **Date** | **delayed by**  **(no of days)** | **% completion** |
| **Planning**  **Phase** | **May 1st** | **May 7th** | **1** | **90%** |
| **Design and**  **Production** | **May 8th** | **May 15th** | **2** | **89%** |
| **Inventory**  **Preparation** | **May 16th** | **May 22nd** | **1** | **60%** |
| **Marketing**  **Campaign**  **Setup** | **May 23rd** | **May 30th** | **1** | **70%** |
| **Pre-Sale**  **Teasers** | **May 31st** | **June 5th** | **2** | **90%** |
| **Launch Day** | **June 6th** | **June 6th** | **1** | **90%** |
| **Sale Period** | **June 7th** | **June 14th** | **1** | **95%** |
| **Post-Sale**  **Analysis** | **June 15th** | **June 20th** | **1** | **98%** |
| **Inventory**  **Cleanup** | **June 21st** | **June 28th** | **2** | **97%** |
| **Thank-You**  **Campaign** | **June 29th** | **July 5th** | **2** | **96%** |

**• In introduction write the usability of Gannt chart.**

**• Write inference form the above as a part of your discussion**

**NOTE:**

**i. Don’t take a snapshot of the excel chart, copy properly AND PASTE IN YOUR**

**ASSIGNMENT FILE.**

**ii. You may use Gannt project planner template if you wish, or else you can design by your own**

**Ans 2.**

**Introduction**

The Gantt chart, a popular project management tool, is instrumental in visualizing the timeline of a project's various activities. Created by Henry Gantt in the early 20th century, this visual schedule provides a clear outline of project tasks alongside their start and end dates, offering a linear representation of a project’s progression over time. The functionality of a Gantt chart is not only limited to depicting the duration of tasks but also extends to demonstrating dependencies between activities,

**3. For the following activities Draw the network Diagram.**

**Krishna Chocolates is planning to establish a new chocolate manufacturing unit in a bustling industrial area in Bangalore, India. The unit will produce a wide range of chocolates including dark, milk, white, and flavored varieties. Before the unit can start production, several tasks need to be completed:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Immediate**  **Activity** | | **Description** | | **Predecessor** | | **Duration**  **(weeks)** | |
| **A** | | **Conduct market research and identify potential locations for the unit.** | | **-** | | **6** | |
| **B** | | **Develop the initial layout and design of the unit, considering space optimization and production flow.** | | **-** | | **8** | |
| **C** | | **Obtain approval from the local municipal corporation for establishing the unit.** | | **A, B** | | **12** | |
| **Immediate**  **Activity** | | **Description** | | **Predecessor** | | **Duration**  **(weeks)** | |
| **D** | | **Select an architect or interior designer to finalize the unit layout and interior design.** | | **C** | | **4** | |
| **E** | | **Establish a budget for purchasing machinery, setting up infrastructure, and hiring staff.** | | **C** | | **6** | |
| **F** | | **Finalize the unit layout and interior design with the selected architect or interior designer.** | | **D, E** | | **15** | |
| **G** | | **Secure financing from a bank or financial institution for the unit setup.** | | **E** | | **12** | |
| **H** | | **Recruit and hire staff for various roles including production managers, quality control executives, and support staff.** | | **F, G** | | **8** | |

**a. Draw a AON diagram (Draw the diagram using MS word only) (5 Marks)**

**Ans 3a.**

**Introduction**

Network diagrams are essential tools in project management, offering a visual representation of the sequence and interdependencies of tasks within a project. The Activity-On-Node (AON) diagram, a form of network diagram, specifically illustrates each project activity as a node and uses arrows to depict the logical relationships between these activities. This type of diagram is particularly useful for identifying the critical path of a project, enabling project managers to prioritize tasks and manage