**Project Management**

**April 2025 Examination**

**1. What is a project charter? Develop a project charter for a Metro-rail project (e.g. Bhubaneswar Metro-rail project) and discuss the typical elements of the charter. (10 Marks)**

**Ans 1.**

**Introduction**

A project charter is a critical document in project management that officially authorizes a project and provides a structured framework for its execution. It outlines the project’s objectives, scope, stakeholders, and key deliverables while granting the project manager the necessary authority to proceed. The project charter acts as a reference document that aligns the project with strategic goals and ensures that all involved parties share a common understanding of the project’s vision and expected outcomes.

Large infrastructure projects like metro-rail systems depend on the project charter to define duties, establish expectations, and secure stakeholder commitment. Metro-rail projects include

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**2. India is set to launch its own space station, named "Bharatiya Antriksh Station," by 2035, as announced by Jitendra Singh, Union Minister of State for Science and Technology. Construct a WBS (Work break-down structure) for the project. (10 Marks)**

**Ans 2.**

**Introduction**

India has set its sights on an ambitious space mission, the development of its own space station, **Bharatiya Antriksh Station**, which is expected to be fully operational by 2035. This initiative, led by the **Indian Space Research Organisation (ISRO)**, marks a significant milestone in India’s space exploration journey, positioning the country as a major player in independent human spaceflight capabilities. The space station will serve as a research platform for scientific experiments, technological advancements, and deep-space exploration.

This size project demands careful planning, organisation, and execution, which a Work Breakdown Structure helps with (WBS). A WBS organises project activities hierarchically,

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**3. Budget 2024 Highlights: Road infrastructure project Bharatmala Pariyojana gets a boost Budget 2024: Budget 2024 raised the allocation for the Road Ministry marginally to ₹2.78 lakh crore from Rs 2.7 lakh crore. Out of the outlay, ₹1.68 lakh crore is earmarked for investment in NHAI for the development of national highway corridors under Bharatmala Pariyojana.**

**The Bharatmala Pariyojana is an ambitious infrastructure project of the government. It was launched in 2015. The programme aims to transform the country’s road infrastructure by building a robust, safe and efficient network of highways to connect major industrial zones, state centres and remote areas across the country. The programme is being executed under the administrative control of the Ministry of Road Transport and Highways (MoRTH). The National Highways Authority of India (NHAI), National Highways and Infrastructure Development Corporation, and the roads wing of the ministry are the implementing agencies for Bharatmala Pariyojana.**

**To give a boost to the road infrastructure, Finance Minister Nirmala Sitharaman had increased the allocation to the Road Transport Ministry by 36% to ₹2.7 lakh crore in Union Budget 2023 from ₹1.99 lakh crore in FY 2022-23.Budget 2024 raised the allocation for the Road Ministry marginally to ₹2.78 lakh crore. Out of the outlay, ₹1.68 lakh crore is earmarked for investment in NHAI for the development of national highway corridors under Bharatmala Pariyojana.**

**a. Explain the various characteristics/features of Bharatmala Pariyojana. (5 Marks)**

**Ans 3b.**

**Introduction**

Bharatmala Pariyojana is a flagship infrastructure project initiated by the Government of India in 2015 to enhance road connectivity and strengthen the national highway network. The project aims to bridge the existing infrastructure gaps by constructing highways, expressways, and economic corridors across the country. It seeks to improve logistics efficiency, reduce travel time, and facilitate seamless movement of goods and passengers. The National Highways

**b. Discuss in brief the different activities to be executed during the project life cycle of the Bharatmala Pariyojana project. (5 Marks)**

**Ans 3b.**

**Introduction**

The execution of the Bharatmala Pariyojana follows a structured project life cycle, consisting of multiple phases from conceptualization to completion. Given the large-scale nature of the project, each phase involves extensive planning, stakeholder collaboration, and execution of multiple activities. The project is expected to be completed in phases, ensuring efficient resource allocation and timely progress. The primary implementing agencies, including NHAI and