QUESTION 1
Solution

1.1 (a) WBS for Bicycle Manufacturing

Draw a simple work break down structure for the manufacture of the bicycle described above? (10 marks)

(a)

1.0 BICYCLE

1.1 FRONT FORKS

1.1.1 BRAKES

1.1.2 SPOKES

1.2 TRANSMISSION GEARS

1.2.1 PEDALS

1.2.1.1 CHAIN

1.2.1.2 SPINDLE

1.2.1.3 CRANK Set

1.2.1.4 BOTTLE CAGE

1.2.2 WHEELS

1.2.2.1 HUB

1.2.2.2 SPOKES

1.2.2.3 TYRES

1.3 FRAME

1.3.1 SADDLE

1.3.2 CARRE
(b) Explain the benefits of using a work breakdown structure in Project Management? (5 marks)
1. Breakdown into smaller manageable activities
2. Costing can be carried out to produce a cost breakdown structure
3. Assignment of responsibilities is made easy
4. It becomes easier to identify and manage possible risks in the manufacturing process
5. Enhances communication among all team members

(c) What another breakdown structure can be used in Project Management? (5 marks)

Other breakdown structure that can be used are:
- OBS – Organizational Breakdown Structure (OBS)
- Resource Breakdown Structure (RBS)
- Risk Breakdown Structure (RBS)
- Product Breakdown Structure (PBS)
- Cost Breakdown Structure (CBS)

2.2 Advantages of working in Project Team (10 Marks)

The advantages of working as a team are:

1) The many different skills of the various team members can be channeled to meeting the project’s performance criteria.

2) The collective experience of the team members can generate meaningful discussion which assists in resolving problems

3) New ideas are more easily generated and speedily discussed, tested and implemented
4) The close relationship between members increases the spirit of co-operation and engenders the motivation to succeed.

5) Team members can support and assist each other

6) The short lines of communication enable misunderstandings to be reduced and enable decisions to be speedily implemented.

7) If properly led by the project manager, project team members will feel proud to be a part of successful organization and will show this by hard work, loyalty, and dedication.

QUESTION 2
Integration and its effect on Project Management (10 Marks)

The project must be integrated with the ongoing operations of the performing organization

Product scope and project scope must be integrated

Deliverables from different functional specialties must be integrated

No decision about the project can be taken in isolation

TOTAL MARKS FOR ASSIGNMENT 1 = 40 Marks