



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5 Examination in Engineering: May 2023

Module Number: IS5303

Module Name: Industrial Management

[Three Hours]

[Answer **all question**, each question carries ten marks]
[Use separate booklets for **Section A** and **Section B**]

Section A

- Q1 a) Explain four basic functions of management process. [4 Marks]
- b) Briefly explain main roles that managers are expected to perform in an organization. [3 Marks]
- c) What are the three main skills that an effective manager must possess? Are all these skills equally important? Discuss. [3 Marks]
- Q2 a) All companies are required to pay attention on 'product development' in this competitive dynamic business environment. Explain customer's need for a Product Development. [4 Marks]
- b) What do you mean by 'Product Life Cycle'? Explain the different phases of product life cycle. [4 Marks]
- c) What do you mean by 'Intellectual Property Rights'? Explain briefly. [2 Marks]
- Q3 a) Briefly explain the advantages of establishing a franchise. [2 Marks]
- b) Explain the advantages and disadvantages of operating as a company. [2 Marks]
- c) Explain the importance of having a purchasing policy for an organization. [3 Marks]
- d) Organization should maintain proper stock control practices. What are the main factors to be considered in this regard. [3 Marks]

Q4. Find the critical path and the project completion time for the following project.

Activity	Predecessor	Duration (days)
A	-	5
B	-	1
C	A	2
D	A	3
E	A	2
F	C	3
G	D	4
H	B,E	2
I	H	1
J	F, G, I	1

[10 Marks]

Section B

Q5. Explain briefly as to whether the following statements are true or false. Your answer should be supported with relevant provisions of law and decided cases, if any.

- A person, whether natural or legal, can enter into a contract without any problem.
- An engineer has nothing to do with ethics or non-contractual obligations.
- In an agency relationship, the principal cannot approve the acts of the agent committed outside of the scope of the agency relationship.
- Copyright law only applies to creative works like books, music, and movies.
- Independent contractors are entitled to the same legal protections and benefits as employees.

[10 Marks]

Q6. Briefly determine the legal consequences of the following situations. Your answer should be supported with relevant decided cases, if any.

- You are the owner of 'ENLIVEN' engineering consultancy firm. Mrs. Perera, a retired school teacher lives next door to your firm. Recently you installed an air conditioning unit in your firm office that produces a loud humming noise that is audible inside Mrs. Perera's residence.
- Pabudanan contracted with Kumari to design and build a new industrial plant. According to the contract, the plant must be completed within 18 months. In the last stage of the project, a major earthquake occurs, and the entire industrial plant was destroyed.

[10 Marks]