



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5 Examination in Engineering: March 2022

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) Briefly explain what is 'management' in your words. [3 Marks]
- b) Briefly explain the four basic functions of management process. [4 Marks]
- c) Describe the main duties and responsibilities of Top managers, Middle managers and Front-line managers. [3 Marks]
- Q2 a) List the ways in which a business can be established in Sri Lanka. [3 Marks]
- b) Explain the advantages and disadvantages of sole traders and partnerships. [4 Marks]
- c) 'A company has a separate legal identity from owners'. Explain this statement. [3 Marks]
- Q3 a) Briefly explain the term 'Job Analysis' and 'Job Specification'. [3 Marks]
- b) Briefly explain the main activities in purchasing. [3 Marks]
- c) What do you mean by 'Intellectual Property Rights?'. Explain briefly. [4 Marks]

Q4. Draw the network diagram (Activity on Arrow method) and find the critical path/s and the project completion time for the following project.

Activity	Predecessor	Duration (days)
A	-	2
B	A	4
C	A	2
D	A	2
E	A	6
F	B	4
G	D	4
H	E	4
J	F	10
K	C,F,G	2
L	H	2
M	J, K, L	4

[10 Marks]

Section B

Q5. Very briefly determine the legal consequences of the following independent situations. Your answer should be supported with relevant statutory provisions and decided cases, if any.

- Kamal, a Civil Engineer, contracted with Gayan to build a two-storied building. According to the contract, Kamal should apply three coats of paint to the building and Italian bathroom fittings should be used for all bathrooms. After the completion of the work, Gayan discovered that Kamal has applied only two paint coats and used local bathroom fittings.
- Kamal contracted with Gayan to sell his Sony Television. Gayan had not seen the TV before purchasing it. However, now Gayan came to know that it is a Phillips TV.
- Kamal contract to sell his industrial plant for a nominal price to Gayan due to a threat made by Gayan.
- Kamal and Gayan contracted to modify Kamal's motorcycle by fixing a 1500CC engine, which is prohibited under Sri Lankan law.
- Kamal agreed to sell his land near Mahaweli River. Unfortunately, the land washed away due to a flood.

[10 Marks]

Q6. Suppose you are an Engineer Trainee of a reputed Engineering Firm. Your Managing Director wants to know about the following. Briefly explain the following for him.

- a) Differences between public nuisance and private nuisance.
- b) Differences between an employee and an independent contractor.
- c) Intellectual Property Rights and related issues pertaining to the engineering profession.
- d) Duties of an agent towards the Principal.
- e) Various dispute resolution mechanisms are available under Sri Lankan Labour Law.

[10 Marks]