



FACULTY OF BUSINESS

FINAL EXAMINATION

Student ID (in Figures) :

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Student ID (in Words) : _____

Course Code & Name : **FIN5104 Applied Corporate Finance and Economics
(ODL & Conventional)**

Semester & Year : May – August 2021

Lecturer/Examiner : Mr.Ravindran Raman

Duration : 3 Hours

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 2 parts:
 - PART A (60 marks) : Answer all THREE (3) case study questions. Answers are to be written on Answer Booklet.
 - PART B (40 marks) : Answer all THREE (3) structured-type questions. Answers are to be written on Answer Booklet.
2. Candidates are not allowed to bring any unauthorised materials except writing equipment into the Examination Hall. Electronic dictionaries are strictly prohibited.
3. This question paper must be submitted along with all used and/or unused rough papers and/or graph paper (if any). Candidates are NOT allowed to take any examination materials out of the examination hall.
4. Only ballpoint pens are allowed to be used in answering the questions, with the exception of multiple choice questions, where 2B pencils are to be used.

WARNING: The University Examination Board (UEB) of BERJAYA University College regards cheating as a most serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from BERJAYA University College.

Total Number of pages = 4 (Including the cover page)

PART A : CASE STUDY (60 MARKS)

INSTRUCTION(S) : Answer **THREE (3)** questions. Write your answers on the Answer Booklet provided.

Case Study: CHINA SHENHUA ENERGY, PROJECT CAPITAL BUDGETING AND DECISION MAKING

Shenhua Group Corporation Limited is a holding company that owns China Shenhua Energy. China Shenhua Energy is one of the world's biggest coal producers and the largest coal mining state-owned enterprise in China. Its main business is coal mining and producing, railway and port transportation of its coal as well as power generation. It takes up to 10 years to acquire property, obtain the necessary permits, design the plant, arrange the financing, and complete the construction of a large generating plant.

Moreover, utilities like China Shenhua Energy are required by law to have electricity available when it is demanded-when people turn on the switch, the utility must have the energy its customers expect or suffer severe fines and other penalties. Thus, China Shenhua must have the energy its customers expect or suffer severe fines and penalties. Also, for China Shenhua's coal business, demand is cyclical. In an economic recession demand for raw materials like coal falls and China Shenhua would suffer from falling coal prices as well. If China Shenhua had invested heavily in mines and had an oversupply during the recession, it would not bode well for company.

Making a 10-year forecast is always difficult, but the 2008-2009 recession increased this difficulty tremendously. India and China, two very large sources of demand for China Shenhua Energy's products cut back on coal consumption during the financial crisis. As many businesses in Mainland China reduced production during this time, demand for power also went down. No one could know when these two industries, power generation and coal would recover. Hence, no one could accurately forecast world demand for coal and local demand for power or thus, the need for new generation capacity.

In the aftermath of the massive earthquake in Japan in 2011, several nuclear reactors risked a nuclear meltdown. The event highlights the high risk of the use of nuclear energy leading governments around the world to put on hold their future plants to deploy nuclear energy. This results in the increase in demand for coal and energy source.

The China Shenhua Energy story is typical, and it illustrates that capital budgeting is critically important both to companies and to the economy. The principles set forth will help you make the right choices regarding **which projects to accept and which to reject** for the two recent proposals: **Project RED and Project BLUE**. All figures are presented in thousands of US dollars:

Table 1: Capital Budgeting Decision for Project RED and Project BLUE.

Cash Flow	Project RED	Project BLUE
Weighted Average Cost of Capital (WACC) = 10%		
Investment	- 10,000 USD	- 10,000 USD
Cash flow year 1	3,000	5,000
Cash flow year 2	4,000	5,000
Cash flow year 3	5,000	5,000
Cash flow year 4	6,000	5,000

Source: Adapted and modified from Eugene F. Brigham and Michael C. Ehrhardt (2017), *Financial Management: Theory and Practice*, Cengage Learning.

Question 1

Calculate the capital budgeting for Project RED and BLUE respectively as below:

- a. Net Present Value (NPV) (6 marks)
- b. Payback Period (PP) (5 marks)
- c. Discount Payback Period (DPP) (5 marks)
- d. Internal Rate of Return (IRR) (6 marks)
- e. Modified Internal Rate of Return (MIRR) (5 marks)
- f. Profitability Index (PI) (3 marks)

(Total: 30 marks)

Question 2

By applying your answer in Question 1, suggest to the management team whether to accept or reject the two projects. Propose your recommendation with justification.

(18 marks)

Question 3

“Since the micro and macro environments have a relevant impact on the success of strategic activities Shenhua Group and therefore such environmental factors must be considered thoroughly in the process of devising strategic plans”. Evaluate this statement and discuss **TWO (2)** macro environmental factors and **TWO (2)** micro environmental factors that affect the capital budgeting decision at corporate level at Shenhua Group respectively.

(12 marks)

End of Part A

PART B : STRUCTURED-TYPE QUESTIONS (40 MARKS)

INSTRUCTION(S) : Answer all **THREE (3)** questions. Write your answers on the Answer booklet provided.

Question 1

Examine **THREE (3)** types of financial plan that a corporate firm will consider to apply into its financial structure by making crucial decisions to strengthen its financial position.

(15 marks)

Question 2

Explain **FOUR (4)** key main phases which will assist a corporate firm to succeed in the mergers and acquisitions project management road map.

(10 marks)

Question 3

Capital structure analysis is a periodic evaluation of all components of the debt and equity financing used by big corporate. Assess **FIVE (5)** factors that trigger the capital structure analysis when making a strategic decision.

(15 marks)

END OF EXAM PAPER