Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2021 (ONLINE MODE)

Course: FINANCING ENERGY SECTOR PROJECTS Program: BA-ENERGY ECONOMICS Course Code: FINC-3006

Semester: SIXTH Time : 3 hrs Max. Marks: 100

Instructions:

- 1. The student must write his/her name and enrolment no. in the space designated above.
- 2. The questions have to be answered as per the instructions given in the respective sections.

2. The c	questions have to be answered as per the instructions given in the respective sections.					
	SECTION –A					
1. Eac	1. Each Question will carry 5 Marks					
2. Inst	ruction: Select the correct answer(s)					
S. No.						
		CO				
Q1	Which among is not the technique of Capital Budgeting?					
_	1. Payback Period					
	2. Net Present Value	CO1				
	3. Current Ratio					
	4. Profitability Index					
Q2	If the risk free rate of return equals the 10 per cent; the firm's beta equals 1.50 and the return					
	on the market portfolio equals 12.5 percent. Compute the cost of equity capital:					
	1. 13.75%	CO1				
	2. 14.75%	CO1				
	3. 15.75%					
	4. 15.50%					

Q3	 Production Sharing Contract include: 1. Cost Oil and Profit Oil 2. Royalty, VAT, Cost Oil and Profit Oil 3. Profit Oil Only 4. Cost Oil Only 						
Q4	A company has 10 percent perpetual debt of Rs 1,00,000. The tax rate is 35 per cent. Determiner the cost of capital (before tax as well as after tax) assuming the debt is issued at par. 1. 9% & 7% 2. 10% & 6.5% 3. 7% & 9% 4. 8% & 9%						
Q5	Beta measures 1. Unsystematic risk 2. Systematic risk 3. Both 4. None of them						
Q6	Suppose that dividend per share of a firm is expected to be Rs 1 per share next year and is expected to grow at 6 per cent year perpetually. Determine the cost of equity: 1. 10 percent 2. 11 percent 3. 12 percent 4. 13 percent						
		SECTION ll carry 10 marks e short / brief notes	I – B				
S. No.						СО	
Q1		the IRR and NPV methods. In which ry results, and also recommend that with why?			-	CO2	
Q2	What is the	What is the sensitivity approach for dealing with project risk? CO2					
Q3	Discuss the	Discuss the new recourse financing and what is the relevance of this tool in Energy Sector				CO2	
Q4	M/S Satender limited is considering purchasing a new machinery which will carry out operation which are carried on by labor, they have two options at hand Machine A and Machine B, we have to recommend as to which machinery is better by using Pay back and pay back reciprocal method.						
		Particulars	Machine A	Machine B			
		Cost of machine	150,000	250,000		CO3	
		Cost of indirect material	6,000	8,000			
		Saving in scrap	10,000	15,000			
		Additional cost of maintenance	19,000	27,000			

		Saving	s in wages	90,0	00 120	,000		
		Life of	machinery	5 y	rs 6	yrs		
	Taxation to be regarded as 50% of profits. Ignore depreciation for calculation of tax.							
Q5	Q.1 There is a capital constraint of Rs. 10,000 in the initial period. The two projects available for investment are project B and C. The cash flows, NPVs at 10 per cent and profitability index are:							
		Cash Flow						
		0	1	2	Net Present Values	Profitability Index	CO3	
	Project B	-1	22	-12.1	9	10		
	Project C	-5	44	-24.2	15	4		
	Which is the	better project?				11		
	 Royalty is 15% of annual gross production and is to be paid in kind. VAT is equal to 5% of annual gross production and is to be paid in kind. Cost Oil is limited to 60% of gross production, with costs to be recovered in the following order: Operating expenses Exploration Cost (Paid entirely by Co.) Development Cost (49 % by Co. and 51% by local oil co.) Any excess remaining after cost recovery becomes profit oil: The government receives 12% of the profit oil. the remainder split between the co and local oil company based on their WI For 2015 assume the following: Recoverable Operating cost total \$7,000,000 						CO4	
	 Recoverable Operating cost total \$7,000,000 Exploration cost (unrecovered to date) total 70,000,000. Development Cost (unrecovered to date) total 700,000,000. Any cost not recovered in the current year may be carried forward to be recovered in future years. The gross production for the year is 4,000,000 bbl of oil. The agreed up price is \$ 70/bbl. Prepare the Crude Oil Production Sharing to Parties Statement. 							