Name:

Enrolment No:



: VIII

: 03 hrs

Semester

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

END Semester Examination, March 2019

Programme Name: B. Tech ET-LLB-IPR

: Project and Financial Management in Energy sector **Course Name** Time Max. Marks: 100

Course Code : BBCF 134

Nos. of	page(s) : 2		
	SECTION A		
S. No.		Marks	CO
Q 1	Discuss the characteristics of project.	4	CO1
Q 2	Illustrate a) project family tree b) classification of projects.	4	CO1
Q 3	Narrate the formula for calculating the Cost of Equity using the CAPM Approach.	4	CO1
Q 4	Elucidate the investment need, appraisal and criteria in financial management.	4	CO2
Q 5	Explain the limitation of payback period and ROI method.	4	CO1
	SECTION B		
Q 6	Discuss the Financial analysis techniques in details.	10	CO2
Q 7	Explain the Features of Capital Budgeting Decisions and capital budgetin difficulties.	g 10	CO2
Q 8	Mr. Raju aspires to buy a house at Bangalore after five years from now, at a expected cost of Rs. 40 Lakhs. Determine the annual savings should Raju make, his savings earn 11% compound Interest.		CO2
Q9	A company borrows Rs.3,00,00,00 to finance a new boiler installation. If the interest rate is 10% per annum and the repayment period is 5 years. Calculate the value of the total repayment and the monthly repayment value, assuming (i) simple interest an (ii) compound interest. (OR)	e	CO3
	Using the <i>net present value</i> analysis technique, Evaluate the financial merits of the proposed project with capital investment of Rs. 30000/- and net annual saving of Rs. 6000/- upto 10 years. Total net saving at end of 10 th year is Rs.60000/-, and annual discount rate is 8% for proposed project.	s.	
	SECTION-C		
Q 10	Skylax Co is contemplating the following Projects A & B as detailed below Calculate the NPV assuming at 8% discount rate, and IRR of both the projects an suggest which project is more feasible?		СОЗ
	Year -> 0 1st year 2nd year 3rd year		
	Project - A Rs. 40,000 Rs. 17,000 Rs. 17,000 Rs. 41,000		

	Project - B Rs. 48,0	000 Rs. 2	22,000	Rs. 22,000	Rs. 23,	,000			
Q 11	A proposed project req	uires an init	tial capita	al investment o	of Rs.2000	00. The c	ash flows		
	generated by the project	et are shown	in the ta	ible below:					
			Year	Cash flow (Rs	s.)				
			0	-20000					
			1	+6000					
			2	+5500					
			3	+5000					
			4	+4500					
			5	+4000					
			6	+4000					
	Given the above cash f	low data, ca			of return	for the p	project.	20	CO3
			(OI	R)					
	It is proposed to install a heat recovery equipment in a factory. The capital cost of installing the equipment is Rs.20,000 and after 5 years its salvage value is Rs.1500. If the savings accrued by the heat recovery device are as shown below, we have to find out the net present value after 5 years. Discount rate is assumed to be 8%.								
	Year	0	1	2 3	4	5			
	Expenditure/saving	-20000	7000	6000 6000	5000	5000	1		
				<u>'</u>	-	1	_		

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10

CO3

SECTION A

S. No.		Marks	CO
Q 1	List out any four key functional areas of Financial Management	4	CO1
Q 2	Illustrate the Present Value (PV) of a Single Cash Flow	4	CO1
Q 3	Differentiate an Operating Leverage (OL) from Financial Leverage (FL)?	4	CO1
Q 4	Explain IRR and list the uses of IRR in Project Management?	4	CO2
Q 5	Differentiate 'Preference' Shares from 'Equity' Shares.	4	CO1
	SECTION B		
Q 6	Explain the stages & steps involved in the modern approaches to Financial Management.	10	CO2
Q 7	Explain the various types of Risks that prevail, while making Financial decisions by	10	CO2

Q 7	Explain the various types of Risks that prevail, while making Financial decisions by Firms.	10	CO2
Q 8	M/S. Rudra 2001 was issued in January 2014, with a maturity period of 5 years. With a Coupon payment of 8.2% per annum made every 9 months with Face value of Rs.100. calculate the YTM for the bond, if the prevailing market price was Rs. 84	10	CO2

as at January 2014.

Q9 A company borrows Rs.1,00,00,00 to finance a new heat exchanger installation. If the interest rate is 8% per annum and the repayment period is 8 years. Calculate the value of the total repayment and the monthly repayment value, assuming (i) simple interest and (ii) compound interest.

Using the *net present value* analysis technique, Evaluate the financial merits of the proposed project with capital investment of Rs. 100000/- and net annual saving of Rs. 8000/- upto 10 years. Total net saving at end of 10th year is Rs.90000/-, and annual discount rate is 8.1% for proposed project.

SECTION-C

Q 10	Calculate the		g at 5% discour		SA&B as detaile R of both the pro	20	CO3
	Year ->	0	1st year	2nd year	3rd year		

				tal investment o		000. The	cash		
flows generate	ed by the pro	ject ar		n the table below					
			Year	Cash flow (Rs	.)				
			0	-100000					
			1	+10000					
			2	+15500					
			3	+12000					
			4	+12500					
			5	+10000					
			6	110000					
			U	+10000					
Given the above	ve cash flow	data, d	calculate	the internal rate	of return	for the p	project.	20	C
		ŕ	calculate (C	the internal rate		•		20	C
It is proposed	to install a	heat re	calculate (C	the internal rate OR) quipment in a f	actory. T	The capit	al cost of	20	C
It is proposed installing the	to install a	heat res	calculate (C	the internal rate PR) quipment in a fafter 6 years its	actory. T	The capit	al cost of Rs.2500.	20	Co
It is proposed installing the earlies If the savings	to install a equipment is accrued by	heat res Rs.10	calculate (Cecovery e	the internal rate OR) quipment in a f	actory. To salvage we have	The capit	al cost of Rs.2500.	20	C
It is proposed installing the earlies If the savings	to install a equipment is accrued by	heat res Rs.10	calculate (Cecovery e	the internal rate PR) quipment in a fafter 6 years its shown below,	actory. To salvage we have	The capit	al cost of Rs.2500.	20	C