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VI SEMESTER B.TECH. (COMMON TO ALL)

END SEMESTER MAKE-UP EXAMINATIONS- JULY 2022

SUBJECT: FINANCIAL MANAGEMENT [HUM 4051]

REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Interest factor table are provided, for others use formulae
- Missing data may be suitably assumed.
- 1A) Reizenstein Trucking (RT) has just developed a solar panel capable of generating 200% more electricity than any solar panel currently on the market. As a result, RT is expected to experience a 15% annual growth rate for the next 5 years. By the end of 5 years, other firms will have developed comparable technology, and RT's growth rate will slow to 5% per year indefinitely. Stockholders require a return of 12% on RT's stock. The most recent annual dividend (D0), which was paid yesterday, was \$1.75 per share.
 - a) Calculate RT's expected dividends for t=1, t=2, t=3, t=4, and t=5.
 - b) Calculate the value of stock today.
- A firm borrows Rs.10 lakhs at 10 percent interest hoping that it can earn double the interest rate by utilizing the amount within the firm. This amount is borrowed by issuing 20 year bonds, with a promise of sinking fund to be setup. The firm will set aside a payment each year and put it in an external account, which pays 4 percent annually compounded interest. Find the annual payments into the sinking fund and total debt repayment.(use interest factor formula)
- **1C)** List the bond value theorems and prove any one of the theorem. (04)

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- **2A)** State the objective of Financial Management. Explain any THREE key **(03)** functions of financial management.
- **2B)** Journalize the following transactions and prepare the ledger for Cash **(05)** account.
 - Issued capital stock for \$16,000.
 - Paid rent on office building for the month, \$3,000.
 - Purchased supplies from X, \$1,200.
 - Paid creditor on account, \$800.
 - Sold goods to customers worth, \$22,500 on credit.
 - Paid automobile expenses for month, \$3,350.
 - Paid office salaries, \$4,200.
 - Paid cash to X amounting \$960.
 - Paid cash dividends, \$1,400.
- 2C) Explain Pre-emptive right and Right to Income with respect to an equity share. (02)
- **3A)** Explain in detail the features of a Preference share. (03)
- **3B)** Differentiate between debentures and equity shares. (03)
- **3C)** Your company is considering two mutually exclusive projects, X and Y, whose **(04)** costs and cash flows are shown below:

Year	0	1	2	3	4
Х	(1000)	100	300	400	700
Υ	(1000)	1000	100	50	50

The projects are equally risky and their cost of capital is 12%.

- i) Make recommendation, and you must base it on the modified IRR (MIRR). What is the MIRR of the better project?
- ii) Also, determine the payback period of the selected project.
- **4A)** Briefly explain operating cycle and the cash conversion period and inventory **(04)** conversion period with respect to operating cycle.
- 4B) What is Working Capital Management. State the significance of working (03) capital management.
- 4C) Write a note on: (03)
 - 1. Gross Working Capital
 - 2. Temporary Working Capital
 - 3. Net Working Capital

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5A) From the following balance given below, prepare P&L A/c of M/s. Diviya Ltd. **(03)** for the year ending 31.12. 2021

	Rs.		Rs.
Gross profit	55,000	Repairs	500
Carriage on sales	500	Telephone expenses	520
Office Rent	500	Interest (Dr.)	480
General expenses	900	Fire insurance premium	900
Discount to customers	360	Bad debts	2,100
Interest from Bank	200	Apprentice Premium (Cr.)	1,500
Traveling expenses	700	Printing & Stationary	2,500
Salaries	900	Trade expenses	300
Commission	300		

- **5B)** Explain the important components in a balance sheet.
- **5C)** You need Rs.28,974 at the end of 10 years, and your only investment outlet **(04)** is an 10 percent long-term certificate of deposit (compounded annually). With the certificate of deposit, you make an initial investment at the beginning of the first year.

(03)

- a) What single payment could be made at the beginning of the first year to achieve this objective?
- b) What amount could you pay at the end of each year annually for 10 years to achieve this same objective?

1	n	%

n	F/P	P/F	A/F	A/P	F/A	P/A	A/G	P/G	n
1	1.100	.9091	1.0000	1.1000	1.000	0.909	0	0	1
2	1.210	.8264	.4762	.5762	2.100	1.736	0.476	0.826	2
3	1.331	.7513	.3021	.4021	3.310	2.487	0.937	2.329	3
4	1.464	.6830	.2155	.3155	4.641	3.170	1.381	4.378	4
5	1.611	.6209	.1638	.2638	6.105	3.791	1.810	6.862	5
6	1.772	.5645	.1296	.2296	7.716	4.355	2.224	9.684	6
7	1.949	.5132	.1054	.2054	9.487	4.868	2.622	12.763	7
8	2.144	.4665	.0874	.1874	11.436	5.335	3.004	16.029	8
9	2.358	.4241	.0736	.1736	13.579	5.759	3.372	19.421	9
10	2.594	.3855	.0627	.1627	15.937	6.145	3.725	22.891	10
11	2.853	.3505	.0540	.1540	18.531	6.495	4.064	26.396	11
12	3.138	.3186	.0468	.1468	21.384	6.814	4.388	29.901	12
13	3.452	.2897	.0408	.1408	24.523	7.103	4.699	33.377	13
14	3.797	.2633	.0357	.1357	27.975	7.367	4.996	36.801	14
15	4.177	.2394	.0315	.1315	31.772	7.606	5.279	40.152	15
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4	1	n	/
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n	F/P	P/F	A/F	A/P	F/A	P/A	A/G	P/G	n
1	1.120	.8929	1.0000	1.1200	1.000	0.893	0	0	1
2	1.254	.7972	.4717	.5917	2.120	1.690	0.472	0.797	2
3	1.405	.7118	.2963	.4163	3.374	2.402	0.925	2.221	3
4	1.574	.6355	.2092	.3292	4.779	3.037	1.359	4.127	4
5	1.762	.5674	.1574	.2774	6.353	3.605	1.775	6.397	5
6	1.974	.5066	.1232	.2432	8.115	4.111	2.172	8.930	6
7	2.211	.4523	.0991	.2191	10.089	4.564	2.551	11.644	7
8	2.476	.4039	.0813	.2013	12.300	4.968	2.913	14.471	8
9	2.773	.3606	.0677	.1877	14.776	5.328	3,257	17.356	9
10	3.106	.3220	.0570	.1770	17.549	5.650	3.585	20.254	10
11	3.479	.2875	.0484	.1684	20.655	5.938	3.895	23.129	11
12	3.896	.2567	.0414	.1614	24.133	6.194	4.190	25.952	12
13	4.363	.2292	.0357	.1557	28.029	6.424	4.468	28.702	13
14	4.887	.2046	.0309	.1509	32.393	6.628	4.732	31.362	14
15	5.474	.1827	.0268	.1468	37.280	6.811	4.980	33.920	15

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