

B.C.A. DEGREE EXAMINATION APRIL 2017
SECOND SEMESTER

COURSE : ALLIED – CORE
PAPER : PRINCIPLES OF FINANCIAL MANAGEMENT
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

I. ANSWER ALL THE QUESTIONS (10 X 2 = 20)

1. Define Financial Management.
2. What do you mean by risk?
3. Rs. 2,000 (Po) is deposited in a bank for two (n) years at simple interest of 6% (i). How much will be the balance at the end of 2 years?
4. What do you understand by time value of money?
5. Define the term working capital.
6. From the following information relating to X Ltd., calculate Operating cycle.
Stock holding: Raw material : 2 months
 W.I.P : 15 days
 Finished goods : 1 month
Average debt collection period : 2 months
Average payment period : 45 days.
7. Ramani Ltd. has total sales revenue of Rs. 120 lakh a year, of which 75% are credit sales. The firm has an investment opportunity in the money market to earn a return of 18% p.a. If the firm could reduce its float by 3 days, what would be the annual savings for it?
8. Calculate optimum cash balance under Baumol model from the data given below:
Monthly cash requirement : Rs. 30,000
Fixed cost per transaction : Rs. 10
Interest rate on marketable securities : 20% p.a.
9. What is capital budgeting?
10. A project has an initial investment of Rs. 2,00,000. It will produce cash flows after tax of Rs. 50,000 per annum for six years. Compute the payback period for the project.

SECTION – B

II. ANSWER ANY FIVE QUESTIONS (5 X 8 = 40)

11. Explain the objectives of financial management.
12. Kanishgadevi has entered into an agreement that will fetch her Rs. 60,000 p.a. for the next 4 years. She wants to know the present value of the future cash inflows at 20% discount rate.

13. From the following estimate, calculate the average amount of working capital required:

	P.a. (Rs.)
(a) Average amount locked-up in stocks:	
Stock of finished goods & W.I.P	10,000
Stock of stores, materials, etc	8,000
(b) Average Credit given:	
Local sales: 2 weeks credit	1, 04,000
Sales outside the state: 6 weeks credit	3, 12,000
(c) Time available for payment:	
For purchase: 4 weeks	78,000
For wages: 2 weeks	2, 60,000
Add 10% to allow for contingencies.	

14. Prepare a cash budget from the following information for the month of Feb.2016:

	Rs.
Cash in hand on Feb. 1	10,000
Sales for Jan. 2016	1,00,000
Sales for Feb. 2016	1,50,000
Purchases for Jan. 2016	50,000
Purchases for Feb. 2016	70,000
Operating expenses for Jan. 2016	10,000
Operating expenses for Feb. 2016	20,000
Credit from suppliers – one month. Sales recovery 60% in the month of sale and the balance in the following month.	

15. Using the information given below, compute the Pay-back period under

(a) Traditional Pay-Back method, and	
(b) Discounted Pay-Back Method and comment on the results.	
Initial Outlay	Rs. 80,000
Estimated Life	5 years
Profit after Tax	
End of year	
1	Rs. 6,000
2	Rs. 14, 000
3	Rs. 24,000
4	Rs. 16,000
5	NIL

Depreciation has been calculated under straight line method. The cost of capital may be taken at 20% p.a. and the P.V. of Re. 1 at 20% p.a. is given below:

Year	1	2	3	4	5
P.V. Factor	0.83	0.69	0.58	0.48	0.40

16. Discuss the importance of capital budgeting.

17. X Ltd. is engaged in large scale customer retailing. You are required to forecast its working capital requirements from the following information.

Projected annual sales	Rs. 9, 00,000
Percentage of N.P to cost of sales	20%
Average credit allowed to debtors	1 month
Average credit allowed by creditors	2.5months
Average stock carrying (in terms of sales requirements)	2 months.
Add 10% to allow for contingencies.	

SECTION – C

III. ANSWER ANY TWO QUESTIONS

(2 X 20 = 40)

18. The expected cash inflows are as follows:

Year	1	2	3	4	5
Cash inflow (Rs.)	3,000	4,500	6,000	8,000	10,000

Discount rate is 16%. Find out the present value of cash inflows using P.V. table.

19. From the following information, you are required to estimate the net working capital:

	Cost per unit
	Rs.
Raw materials	400
Direct Labour	150
Overheads (excluding depreciation)	300

Total Cost	850

Additional Information:

Selling price	1,000 per unit
Output	52,000 units
Raw Material in stock	Average 4 weeks
Work-in-progress (assumed 50% completion stage with full material consumption)	Average 2 weeks
Finished goods in stock	Average 4 weeks
Credit allowed by suppliers	Average 4 weeks
Credit allowed to Debtors	Average 8 weeks
Cash at Bank is expected to be:	Rs. 50,000.

Assume that production is sustained at an even pace during the 52 weeks of the year.

All sales are on credit basis.

20. XYZ Company wishes to arrange O.D. facilities with its bankers during the period April – June, when it will be manufacturing mostly for stock.

(i) Prepare cash budget for the above period from the following data.

Months	Sales Rs	Purchases Rs	Wages Rs
February	1,80,000	1,24,800	12,000
March	1,92,000	1,44,000	14,000
April	1,08,000	2,43,000	11,000
May	1,74,000	2,46,000	10,000
June	1,26,000	2,68,000	15,000

(ii) 50% of credit sales is realized in the month following the sale and the other 50% in the second month following. Creditors are paid in the month following the month of purchase.

(iii) Wages are paid at the end of the respective month.

(iv) Cash at bank – 1st April – Rs. 25,000.

21. One plant of a company is doing poorly and is being considered for replacement. Three mutually exclusive plants X, Y and Z have been proposed. The plants are expected to cost Rs. 1,00,000 each and have an estimated life of 5 years, 4 years and 3 years respectively and have no salvage value. The company's required rate of return is 10%. The anticipated cash flows after tax for the three plants are as follows:

Year	Plant X Rs.	Plant Y Rs.	Plant Z Rs.
1	25,000	40,000	50,000
2	25,000	40,000	50,000
3	25,000	40,000	5,000
4	25,000	15,000	-
5	95,000	-	-

- (i) Rank the proposals applying the methods of payback, ARR and NPV.
- (ii) What would be the profitability index if the IRR equalled the return on investment? What is the significance of a profitability index less than one?
- (iii) Recommend the project to be adopted and give reasons.
