

## NATIONAL INSTITUTE OF TECHNOLOGY GOA

Farmagudi, Ponda, Goa-403401

Programme Name: B.Tech.

Mid-Semester Examinations, October 2022

Course Name: Date: 17-10-2022 Management

Course Code: HS 400 Time: 9.30: 11.00 AM

Max. Marks: 50

Duration: 1 Hour 30 Minutes

## ANSWER ALL QUESTIONS

- A firm borrows \$1,000, and the loan is to be repaid in three equal payments at the end of the
  next three years. The lender charges a 6 percent interest rate on the outstanding loan balance at
  the beginning of each year. (a) Calculate the EMI amount, and (b) prepare a loan amortization
  schedule
- 2. Differentiate between the following:

151

[6]

- a. Principles of conservatism and matching principle
- b. Drawing account and capital account
- Mutually exclusive and contingent investment
- d. Ordinary annuity and annuity due
- e. Nominal interest rate and effective rate of interest
- 3. John Roberts has \$42,180.53 in a brokerage account and plans to contribute an additional \$5,000 to the account at the end of every year. The brokerage account has an expected annual return of 12 percent. If John's goal is to accumulate \$250,000 in the account, how many years will it take for John to reach his goal?
  [5]
- 4. Explain the salient features of Single, double, and triple columns cash books
- (a) Is your course instructor a manager? Discuss in terms of managerial functions, managerial roles, and skills.
  - (b) How these functions, roles, and skills vary when the manager is an (i) first-line manager, (ii) Middle manager, (iii) and top level manager [3+3=6]

(a) Construct a CPM network diagram (AON) of the 12 activities given in Table (1) and identify its Critical Path.

Activity	Immediate Predecessors	Estimated Duration	Activity	Immediate Predecessors	Estimated Duration
1		2 hours	7	1,5	4 hours
2	****	1 hour	8	2	4 hours
3	2	2 hours	9	4,6	3 hours
4	1,3	4 hours	10	6	1 hour
5	2	1 hour	11	7,8	2 hours
6	1,5	3 hours	12	9,10,11	6 hours

- (b) Another project consists of 16 activities having their predecessor relationship as follows:
- (i) A is the first activity of the project
- (ii) B, C, and D follow A and can be done concurrently
- (iii) E and G can not begin until C is completed and can be performed simultaneously
- (iv) F is the immediate successor to activities B and E
- (v) H and K run parallel, and both succeed G.
- (vi) L succeeds F and H
- (vii) I and J are immediate successor activities to activities D.
- (viii) M and N are immediate successors to I and K. However, both M and N can be performed concurrently
- (ix) Activities O and P are the last activities. Activity O is the immediate successor to N, and L. Activity P is the immediate successor to M and J.

Draw a neat network diagram.

- 7. The following questions (b to d) are based on the answer in section (a) of this question. Therefore, take a minute before writing the name of any institution.

  [1+2+3+6=12]
- a. Suggest the name of any entity that does business transactions
- b. What are the various books of accounts maintained by the entity mentioned in section (a)
- c. Distinguish between a Journal Entry and Ledger Posting.
- d. Bring your own examples to showcase the entry of transactions mentioned in section 'c.'

  Provide at least five transactions in a journal entry with due format (each transaction should have different nature), and three instances of ledger posting