

FACULTY OF ENGINEERING

BE III – Semester (AICTE) (CE/EE/Inst.) (Suppl.) Examination, December 2020

Subject: Industrial Psychology

Time: 2 Hours

Max. Marks :70

PART –A

Note : Answer any Five Questions

(5x2=10 Marks)

- 1) Write Definition and Objective of Industrial Engineering?
- 2) Explain Departmentalism.
- 3) What are the different methods to Improve Morale?
- 4) Give applications of engineering psychology to industry?
- 5) How atmospheric conditions effect work?
- 6) What is the need for allowances in time and motion study
- 7) List out different methods to reduce Fatigue.
- 8) How accidents play role in employee performance?
- 9) Define Job satisfaction?
- 10)What are the Limitations of Job Evaluation?

PART-B

Note : Answer any Four Questions

(4 x 15 = 60 Marks)

11. a) Discuss in detail historical development of Industrial Engineering.
b) Describe different methods of Managing Dissatisfaction and frustration.
12. a) Explain different types of motivations in employee performance
b) Discuss in detail about the standard selection process for an employee
13. a) What is Consumer Preference and Why it Is Important?.
b) Explain the concept Efficiency and how it effect performance of an employee in a workplace
14. a) What are the major types of work curve depending on nature of task?
b) Define Fatigue. What are the different types and causes of Fatigue?
15. What are the Personal Factors/Individual Factors that affect the performance of an organization?
16. a) Explain different core job dimensions and different techniques of job design.
b) What are the Principles, Process, and Elements in HRM?
17. Discuss
 - a) Departmentalism.
 - b) Accident and Safety.
 - c) Job satisfaction.

FACULTY OF ENGINEERING

B.E. (ECE) III - Semester (AICTE) (Suppl.) Examinations, December 2020

Subject : Finance and Accounting

Time: 2 Hours

Max. Marks :70

PART –A

Note : Answer any Five Questions

(5x2=10 Marks))

1. Define BRS
2. What is a contra – entry?
3. What is a current liability?
4. What is depreciation? How is it treated in the balance sheet?
5. Define Capital market
6. What is NBFC?
7. State the Time value of Money
8. What is Profitability Index?
9. What do you mean by Acid-test ratio?
10. Write about Debtors Turnover ratio.

PART-B

Note : Answer any Four Questions

(4 x 15 = 60 Marks)

11. Enter the following transactions of Mr. X in simple cash book and balance the same

- 2006 Jan 1 Commenced business with cash Rs. 20,000
- 2006 Jan 2 Paid into bank Rs. 15,000
- 2006 Jan 3 Purchased goods for cash Rs. 2,000
- 2006 Jan 4 Sold goods for cash Rs. 5,000
- 2006 Jan 5 Paid for stationery Rs. 500
- 2006 Jan 6 Received from Naresh Rs. 2,000
- 2006 Jan 7 Paid Giri Rs. 1,000
- 2006 Jan 8 Purchased office furniture Rs. 2,000

12. Differentiate between (a) capital expenditure and receipts and (b) Revenue expenditure and receipts.

13. From the following balances of Gupta, Prepare the Trading and Profit and loss a/c as on 31.03.2004

Particulars	Amount (Rs.)
Opening stock	20,000
Salaries	25,000
General expenses	2,000
Rent and Taxes	3,000
Purchases	90,000
Freight Inward	2,500
Advertising	1,500
Sales	1,85,000
Discount allowed	1,800
Discount received	1,000

Adjustments :

Closing stock Rs. 18,000

14. The initial cash outlay of a project is Rs. 30,000 and it can generate cash inflow of Rs. 2,000, Rs. 4,000 and Rs. 24,000 in year 1 through 3. Assume a 10% discount rate. Calculate Payback and NPV.
15. What are the components of financial system and how is it significant? Explain.
16. What are the regulations governing the money market mutual funds?
17. From the following Balance sheet of XYZ co. as on 31st Dec. 2003, calculate current ratio, debt-Equity ratio, Debt-total funds ratio

Liabilities	Amount (Rs.)	Assets	Amount (Rs.)
Preference share	1,50,000	Good will	20,000
Capital	2,50,000	Land & Buildings	2,50,000
Equity share capital		Machinery	1,75,000
General reserve	20,000	Furniture	10,000
Profit & Loss	15,000	Stocks	90,000
Account		Debtors	21,000
5% debentures	1,00,000	Cash at bank	5,000
Sundry creditors	28,000	Preliminary	4,000
Bills payable	12,000	Expenses	
	5,75,000		5,75,000

FACULTY OF ENGINEERING

BE (CSE) (AICTE) III-Semester (Suppl.) Examination, December 2019

Subject: Data Structures and Algorithm

Time: 2 Hours

Max. Marks :70

PART –A

Note : Answer any Five Questions

(5x2=10 Marks)

- 1) What is Data Abstraction?
- 2) What is space complexity of an algorithm?
- 3) List operators for Dynamic Memory Allocation in C++ and give example
- 4) List two examples of Divide and Conquer Algorithms
- 5) What is Binary search?
- 6) What is a spanning tree?
- 7) What is a Recursive Function?
- 8) Convert the following Infix Expression to postfix Expression
 $A + B * C - D / E$
- 9) Write about Access Modifiers in C++
- 10) Define Hashing and write about its Advantages.

PART-B

Note : Answer any Four Questions

(4 x 15 = 60 Marks)

11. Explain in detail single linked list and its algorithms for traversing, searching, insertion, deletion.
12. Explain in detail binary tree and its traverse techniques.
13. a) Describe in detail queue data structure and its operations.
b) Write the Queue ADT
14. Explain in detail about AVL tree and its operation.
15. a) Discuss in detail asymptotic notations.
b) Write a programme in C++ to explain exception handling.
16. a) Write a programme and explain template in C++.
b) Explain heap sort.
17. Write short notes on the following:
 - a) DFS
 - b) Method overloading
 - c) Constructor and Destructor
