R20

| H.T.No. | | | | | |
|---------|--|--|------|--|--|
| | | | | | |

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024 MANAGEMENT & ORGANIZATIONAL BEHAVIOUR

| | | x. Marks: 60 | | |
|----|---|-----------------|-----------|-------------|
| | SECTION – A | | | |
| | (Answer all Five Units $5 \times 10 = 50$ Marks) | | | |
| | UNIT-I | | | |
| 1 | a Enumerate the various objectives of management. | CO1 | L2 | 5M |
| | b Relate the contribution of F.W. Taylor or Henri Fayol to the theories of | CO1 | L4 | 5M |
| | management. | | | |
| 2 | OR | CO1 | т 2 | 53.f |
| 2 | a Distinguish between management and administration. | CO1 | L2 | 5M |
| | b Give a description of administrative theories of management. | CO1 | L2 | 5M |
| | UNIT-II | | | |
| 3 | a Distinguish between formal and informal organizations. | CO ₂ | L3 | 5M |
| | b Make a brief description on types of organization structures. | CO ₂ | L2 | 5M |
| | OR | | | |
| 4 | Establishing standards, comparing actual results with standards and taking | CO ₂ | L4 | 10M |
| | corrective actions are the steps included in which function. Discuss in detail. | | | |
| | UNIT-III | | | |
| 5 | a Define personality? Briefly explain about the determinants of personality. | CO3 | L4 | 5M |
| | b Distinguish between Introversion and Extraversion. | CO ₃ | L3 | 5M |
| _ | OR | | | |
| 6 | Compare and contrast operant conditioning with classical conditioning. Provide examples of each. | CO3 | L3 | 10M |
| | UNIT-IV | | | |
| 7 | | CO4 | т 2 | 53.4 |
| 7 | a Describe in detail Porter and Lawler's model of motivation. | CO4 | L3 | 5M |
| | b What is leadership? Explain the leadership theory of Managerial Grid. | CO4 | L2 | 5M |
| 0 | OR | 004 | T = | 108/ |
| 8 | Review the hygiene and motivators in the two-factor theory of motivation. Do you agree with the distinction between hygiene factors and motivators? Are | CO4 | L5 | 10M |
| | there any hygiene factors that you would consider to be motivators? | | | |
| | UNIT-V | | | |
| 0 | | COS | 1.3 | ERA |
| 9 | a What are the major factors determining the organizational change? | CO5 | L3 | 5M |
| | b Explain in detail Lewin"s model of Change management. | CO5 | L2 | 5M |
| 10 | OR | COS | 1.2 | 103/ |
| 10 | Discuss the Johari window model for analyzing interpersonal relationship. | CO ₅ | L3 | 10M |

SECTION - B

(Compulsory Question)

11 Case Study:

 $1 \times 10 = 10 \text{ Marks}$

Two companies X and Y producing 40 count cotton yarn with similar levels of investment, size, and labor force have been competing with each other. All their costs, such as raw materials, power, wages, administrative, sales, interest, and depreciation expenses, have been the same. Company X has been earning around 1.2 times of the net profit level when compared to the net profit earned by company Y. The management of company Y appointed a taskforce to find out the reasons for the same. On detailed analysis carried over by the task force, it was found that the motivation level of employees of company X was relatively far higher than that of company Y. it was mainly on account of certain facilities provided to company X such as environment on the shop floor in terms of space for movement, lighting arrangements, canteen facilities, pickup and drop facility from home to company and back and a free membership of a local club. It was also found that emphasis of company X had free access to top management and every month employees achievements used to be recognized by giving them token prizes; handed over to them by the top management in person in a function organized by the company.

Questions:

- i) Elaborate the benefits provided by company X as per the Hertzberg"s Two factor theory.
- ii) Discuss the impact of the provisions provided by company X on the performance of employees and more returns for company X.

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024

| | MBA I Year I Semester Supplementary Examinations August-2024 ACCOUNTING FOR MANAGERS | | | | | | | | | |
|------|---|--|-------|------|-----|--|--|--|--|--|
| Time | e: 3 | | x. Ma | rks: | 60 | | | | | |
| | | SECTION – A | | | | | | | | |
| | | (Answer all Five Units $5 \times 10 = 50$ Marks) UNIT-I | | | | | | | | |
| 1 | | Explain the Generally Accepted Accounting Principles. OR | CO1 | L2 | 10M | | | | | |
| 2 | | Define accounting. Explain about advantages and disadvantages of accounting. | CO1 | L2 | 10M | | | | | |
| | | UNIT-II | | | | | | | | |
| 3 | | A company acquired a machine on 1.1.2018 at a cost of 40000 and spent on 1000 on its installation. The firm writes off depreciation at 10% on the straight line method and diminishing balance method. The books are closed on 31 st December of each year .show the machinery account for | CO2 | L5 | 10M | | | | | |
| | | 3 years. OR | | | | | | | | |
| 4 | 9 | Elucidate the straight line method. | CO2 | Ι 2 | 5M | | | | | |
| 7 | | Write a short on Diminishing Balance method. | CO2 | | 5M | | | | | |
| | U | UNIT-III | | | | | | | | |
| 5 | | Explain the steps in the preparation of funds flow statement. OR | CO3 | L2 | 10M | | | | | |
| 6 | | Distinguish between cash flow statements and funds flow. UNIT-IV | CO3 | L3 | 10M | | | | | |
| 7 | | From the following data calculate the break even point. Direct material per unit 3 Direct labour per unit 2 Fixed overhead (Total) 10,000 Variable overhead 100% on direct labour Selling price per unit ₹ 10 Trade discount5% Also determine the net profits ,if sales are 10% above the break even point. OR | CO4 | L5 | 10M | | | | | |
| 8 | a | What is meant by marginal cost and difficulties? | CO4 | L2 | 5M | | | | | |
| | b | Describe the make or buy and fixing selling price. UNIT-V | CO4 | L2 | 5M | | | | | |
| 9 | a | write a short note on Stanard costing with example. | CO5 | L2 | 5M | | | | | |
| | b | Explain the material variance and labour variance. | CO5 | L2 | 5M | | | | | |
| 10 | | OR A manufacturing concern which has adopted standard costing furnishes the following information: Standard: Material for 70 kg finished products 100kg Price of material ₹1 per kg Actual: Output 2,10,000 kg Material used 2,80,000 kg Cost of ,materials. ₹2,52,000 Calculate: (a) Material usage, (b) Material price variance, (c) Material cost variance. | CO5 | L5 | 10M | | | | | |

 $1 \times 10 = 10 \text{ Marks}$

The following balance were extracted from the books of Mr Govind on March 31, 2020. You are required to prepare a Trading account and profit and loss account for the year ended March 31, 2020 and a Balance sheet as on that date.

| Particulars | ₹ | Particulars | ₹ |
|-----------------|----------|-----------------|----------|
| Purchase | 75000 | capital | 60000 |
| Return inwards | 2000 | creditors | 30000 |
| Opeingstock | 10000 | sales | 1200000 |
| Freight inwards | 4000 | Return outwards | 1000 |
| wages | 2000 | | |
| Investments | 10000 | | |
| Bank charges | 1000 | | |
| Land | 30000 | | |
| machinery | 30000 | | |
| Building | 25000 | | |
| Cash at bank | 18000 | | |
| Cash in hand | 4000 | | |
| total | 2,11,000 | | 2,11,000 |

Additional information:

- 1.closing stock ₹ 9000
- 2. Provide depreciation @10% on machinery
- 3.Interest accrued on investment ₹ 2000

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024 MANAGERIAL ECONOMICS

| Ti | m | ie: 3 Hours SECTION – A | Max. | Mark | s: 60 |
|----|----|---|-----------------|-----------|-------------|
| | | | | | |
| | | (Answer all Five Units $5 \times 10 = 50$ Marks) | | | |
| | | UNIT-I | | | |
| 1 | | Define Managerial Economics. Explain its Nature in detail | CO ₁ | L1 | 5M |
| | b | What are the roles of managerial economist in an organization? | CO ₁ | L2 | 5M |
| | | OR | | | |
| 2 | a | What is Game theory? How it is useful in context of managerial decision making process. | CO1 | L1 | 5M |
| | b | Explain about Managerial theories of firm. UNIT-II | CO1 | L2 | 5M |
| 3 | | Define elasticity of demand and discuss its type with the help of examples. | CO2 | T 1 | 101/1 |
| 3 | | OR | COZ | L1 | 10M |
| 4 | | Write a short note Delphi method. | CO2 | L2 | 5M |
| 7 | | Discuss in detail the elasticity of supply. | CO2 | L2 L2 | 5M |
| | ı. | UNIT-III | CO2 | LL | 3111 |
| _ | _ | | CO2 | т. | 53.6 |
| 5 | | What do you mean by production? discuss various factors of production. | CO3 | L2 | 5M |
| | D | What is Cobb-Douglas Production Function? | CO ₃ | L2 | 5M |
| | _ | OR | CO2 | т 4 | 53A |
| 6 | | Explain the law of production with one-variable input. | CO3 | L2 | 5M |
| | D | Examine the usefulness of break even analysis. | CO3 | L4 | 5M |
| _ | | UNIT-IV | | | |
| 7 | | Define market. Eplain state features of Perfect competition market. | CO4 | L2 | 10M |
| _ | | OR | | | |
| 8 | a | In a skimming price is that where the initial price is high and slowly | CO4 | L3 | 5M |
| | _ | lowering them- comment on this statement. | | | |
| | b | Elaborate the concept "Pricing of multiple products" system. UNIT-V | CO4 | L4 | 5M |
| 9 | | Evaluate the methods of measuring national income. Which one do you | CO ₅ | L4 | 10M |
| | | like the most and why. | | | |
| | | OR | | | |
| 10 | a | Examine the characteristics of inflation. | CO5 | L4 | 5M |
| | b | "Phases of business cycle-steps to avoid business cycles'. Substantiate this | CO ₅ | L3 | 5M |
| | | statement. | | | |

SECTION - B

(Compulsory Question)

11

 $1 \times 10 = 10 \text{ Marks}$

Firms in India are losing productivity because of Facebook. Office staff are spending too long on the social networking site. According to The Associated Chambers of Commerce and Industry (Assocham) employees use Orkut, Facebook, Myspace, and Linkedin for "romancing" and other purposes. On average, employees spend an hour a day on sites like Facebook. This reduces productivity by 12.5%. Nearly half of office employees accessed Facebook during work time. Some 83% saw nothing wrong in surfing at work during office hours. In September 2009 Portsmouth City Council in England banned staff from accessing Facebook on its computers when it was discovered that they spent, on average, 400 hours on the site every month.

Question

- i) What is meant by productivity?
- ii) Analyze the impact on a fall in productivity on costs.
- iii) Analyze the possible consequences for businesses in India of banning access to Facebook and other social networking sites.
- iv)Do you think access should be denied?

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024
MANAGEMENT INFORMATION SYSTEM

| | MANAGEMENT INFORMATION SYSTEM | | | | | | | | | |
|----|---|-----------------|-----------|------------|--|--|--|--|--|--|
| Ti | me: 3 Hours | Max. | Marks | : 60 | | | | | | |
| | SECTION – A | | | | | | | | | |
| | (Answer all Five Units $5 \times 10 = 50$ Marks) | *: | | | | | | | | |
| | UNIT-I | | | | | | | | | |
| 1 | a Enumerate the most important features of an MIS. | CO1 | L1 | 5M | | | | | | |
| | b What are the benefits of Management Information System? | CO1 | L1 | 5M | | | | | | |
| | OR | | | | | | | | | |
| 2 | a Define Information System and examine the architecture of Information System. | CO1 | L3 | 5M | | | | | | |
| | b Explain EDI interfacing with Managing Information System. | CO1 | L2 | 5M | | | | | | |
| | UNIT-II | | | | | | | | | |
| 3 | Discuss about the decision support system | CO ₂ | L2 | 10M | | | | | | |
| | OR | | | | | | | | | |
| 4 | a Identify the advantages of Knowledge Work Systems. | CO ₂ | L3 | 5M | | | | | | |
| | b Differentiate between public and private Information System. | CO ₂ | L2 | 5M | | | | | | |
| | UNIT-III | | | | | | | | | |
| 5 | a What is System Development and why is it important? | CO3 | L3 | 5M | | | | | | |
| | b Explain the data base management system role in MIS. | CO3 | L2 | 5M | | | | | | |
| | OR | | | | | | | | | |
| 6 | a What are the approaches of MIS Development? | CO3 | L1 | 5M | | | | | | |
| | b Explain the functions of data base management system with example. | CO3 | L2 | 5M | | | | | | |
| | UNIT-IV | | | | | | | | | |
| 7 | Define software metrics. Explain software metrics applications. | CO4 | L1 | 10M | | | | | | |
| | OR | | | | | | | | | |
| 8 | a Differentiate between verification and validation. | CO4 | L2 | 5M | | | | | | |
| | b Discuss the different types of security Testing in detail. | CO4 | L3 | 5M | | | | | | |
| | UNIT-V | | | | | | | | | |
| 9 | Define ERP. What are the major objectives of any organization to | CO5 | L5 | 10M | | | | | | |
| | implement an ERP System? | | | | | | | | | |
| | OR | | | | | | | | | |
| 10 | What are the advantages and disadvantages of CRM package. | CO5 | L1 | 10M | | | | | | |

SECTION - B

(Compulsory Question)

 $1 \times 10 = 10 \text{ Marks}$

Business Scenario of ABC Corporation

The ABC Corporation is a newly established company and the owner is looking for an efficient method of collecting, storing, and manipulating data. The corporation offers a variety of pet supplies and is initially a retailer that is currently selling products only online. As the corporation grows, it plans to also include physical retail locations in which to add services to the company's offerings.

As a startup business, the ABC corporation needs to implement a database management system to allow the collection and sharing of business data among the employees; thus, the database management system should allow for multiple users. The corporation is currently gathering information about database management systems and seeking a contractor to create and implement the system. Business data will be organized in a logical manner and will be retrieved using a client-server network.

In your analysis provide the ABC Corporation with information on database management systems and a recommendation from a contractor's perspective. Information you are providing the ABC Corporation should include the following:

- 1. Provide a definition of a database management system (DBMS) and discuss the purpose(s) in business.
- 2. Introduce the business scenario to analyze and discuss the benefits of implementing a database management system.
- 3. Describe what business data the company would benefit from collecting and manipulating.

*** END ***

11

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024 BUSINESS COMMUNICATIONS

| BUSINESS COMMUNICATIONS Time: 3 Hours Max. Marks: 60 | | | | | | | | |
|--|--|-----------------|------------|----------------------|--|--|--|--|
| T11 | me: 3 Hours | Max. | Marks: | 60 | | | | |
| | SECTION – A | | | | | | | |
| | (Answer all Five Units $5 \times 10 = 50$ Marks) | | | | | | | |
| | UNIT-I | | | | | | | |
| 1 | a Briefly discuss the various approaches used in business communication. | CO ₁ | L4 | 5M | | | | |
| | b Discuss the importance of feedback in organization. | CO ₁ | L2 | 5M | | | | |
| | OR | | | | | | | |
| 2 | "Communication is the nervous system of a business organization". Do you | CO ₁ | L5 | 10M | | | | |
| | agree? Substantiate your argument". | | | | | | | |
| | UNIT-II | | | | | | | |
| 3 | a Write in detail about the different layouts of business letters. | CO2 | L1 | 5M | | | | |
| 3 | b What are the "7c" principles for business correspondence? | CO2 | L1 | 5M | | | | |
| | OR | COZ | 1.1 | SIVI | | | | |
| 4 | a Elucidate the various steps involved in writing effective memo. | CO2 | L3 | 5M | | | | |
| 4 | b How do you write a formal business letter? Give example. | CO2 | L3 | 5M | | | | |
| | | COZ | LS | 21/1 | | | | |
| | UNIT-III | | | | | | | |
| 5 | Mention the Common guidelines for business letters, memos and emails. | CO ₄ | L2 | 10M | | | | |
| | OR | | | | | | | |
| 6 | a Enumerate the importance of non-verbal communication in the business | CO ₃ | L4 | 5M | | | | |
| | scenario and list down its limitations. | | | | | | | |
| | b What skills do you need to be a good public speaker? | CO3 | L3 | 5M | | | | |
| | UNIT-IV | | | 19 | | | | |
| 7 | a Explain the steps required for writing a routine business report. | CO5 | L4 | 5M | | | | |
| | b Write a note on corporate proposal in detail. | CO5 | L1 | 5M | | | | |
| | OR | | | | | | | |
| 8 | a Define business report. What are the parts included in business reports? | CO5 | L1 | 5M | | | | |
| | b What is the importance of organizing and preparing business reports and | CO5 | L4 | 5M | | | | |
| | proposals? | | | | | | | |
| | UNIT-V | | | | | | | |
| 0 | | COC | Т 1 | ENT | | | | |
| 9 | a What is video resume? What are the steps involved in creating video | COO | L1 | 5M | | | | |
| | resumes? | 004 | Τ.Δ | <i>5</i> 3. <i>6</i> | | | | |
| | b Distinguish between video resumes and traditional resumes. | CO6 | L2 | 5M | | | | |
| 4.0 | OR | ~~- | <u>.</u> . | 407- | | | | |
| 10 | Prepare a resume for the job of marketing manager by highlighting your | CO ₆ | L4 | 10M | | | | |
| | achievements. | | | | | | | |

(Compulsory Question)

 $1 \times 10 = 10 \text{ Marks}$

The president of Goodwill Corporation Ltd.,Mr Abhishek Mukherji, wanted to facilitate upward communication. He believed an open-door policy was a good option. He announced that his own door was open to all employees and encouraged senior managers to do the same. He felt this would give him a way to get early warning signals that would not be filtered or redirected through the formal chain of command Mukherji found that many employees who used the open-door policy had been with the company for years and were comfortable talking to the president, Sometimes messages came through about inadequate policies and procedures. Mukherji would raise these issues and explain any changes at the next senior managers meeting. The most difficult complaints to handle were those from people who were not getting along with their bosses.

One employee, Anand, complained bitterly that his manager had over committed on behalf of the department and put everyone under tremendous pressure, Anand argued that long hours and low morale were major problems. However, he would not allow Mukherji to either bring the manager into the discussion or seek out other employees to confirm the complaint. Although Mukherji suspected thar Anand might be right, he could not let the matter lie and said, Have you considered leaving the company?' This made Anand realize that a meeting with his immediate boss was unavoidable.

Before the three-party meeting, Mukherji contacted Anand's manager and explained what was going on. He insisted that the manager come to the meeting willing to listen and without hostility towards Anand. During the meeting, Anand's manager listened attentively and displayed no ill will. He learned the problem from Anand's perspective and realized he was over his head in his new job. After the meeting, the manager said he was relieved. He had been promoted into the job from a technical position just a few months carlier and had no management or planning experience. He welcomed Mukherji's offer to help him do a better job of planning.

Questions:

- 1. What techniques increased Mukherjee's communication effectiveness?
- 2. Do you think that an open-door policy was the right way to improve upward communication? What other techniques would you suggest?
- 3. What problems do you think an open-door policy creates Do you think many employees are reluctant to use it? Give reasons for your answer.

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Supplementary Examinations August-2024 BUSINESS AND CYBER LAWS

| | BUSINESS AND CYBER LAWS | | | |
|------|--|-----------------|-----------|-------------|
| Time | : 3 Hours | Max. I | /larks | : 60 |
| | SECTION – A | | | |
| | (Answer all Five Units $5 \times 10 = 50$ Marks) | | | |
| | UNIT-I | | | |
| 1 | What is business law? Explain the need of legal aspects of business. | CO1 | L1 | 10M |
| | OR | | | |
| 2 | What is Consideration? Give an account on legal rules of Consideration. | CO ₁ | L1 | 10M |
| | UNIT-II | | | |
| 3 | Distinguish between Sale and Agreement to Sell. | CO ₂ | L3 | 10M |
| 3 | OR | | | |
| 4 | Explain types of Goods. | CO2 | L2 | 10 M |
| 4 | UNIT-III | | | |
| | | CO2 | T 1 | 101/ |
| 5 | List out the Latest amendments in Company Act. | CO3 | L1 | 10 M |
| | OR | COA | T 4 | 1034 |
| 6 | Write a Short notes on | CO ₃ | L1 | 10 M |
| | i) Public Limited Company | | | |
| | ii) Private Limited Company | | | |
| | UNIT-IV | | | |
| 7 | Explain the different components of GST. | CO ₄ | L2 | 10M |
| | OR | | | |
| 8 | What are different Sources of Tax Deductions? | CO ₄ | L1 | 10M |
| | UNIT-V | | | |
| 9 | What are duties of Cyber Subscribers? | CO ₅ | L1 | 10M |
| | OR | | | 230 1 |
| 10 | List out the advantages of the E-Governance. | CO5 | L1 | 10M |
| 10 | SECTION – B | | | |
| | (Compulsory Question) | | | |
| 11 | (company) | 1 x | 10 = 10 |) Marks |
| 11 | A contract to sell B, by showing sample, certain quantity of rape-speed of | oil descril | oes as . | foreign. |
| | refined rape-seed-oil". The oil when delivered, matches with the sample by | | | |
| | rape-seed oil. Refusing to the provisions of the sale of goods Act, 1930 | | | |
| | - | , 1141150 | | 11047, 11 |
| | any, available to B. | | | |

H.T.No. O.P.Code: 20MB9004 R20 SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) MBA I Year I Semester Supplementary Examinations August-2024 **BUSINESS STATISTICS FOR MANAGERS** Time: 3 Hours Max. Marks: 60 SECTION - A (Answer all Five Units $5 \times 10 = 50$ Marks) IUNIT-II a Is statistics art or science? Explain. CO₁ L₂ 5M **b** What are the limitations of statistics. CO₁ L3 **5M** OR a Explain in detail about the objectives and scope of statistics. CO₁ L2 **5M** b Explain the relation of statistics with other disciplines. CO₁ L1 5M UNIT-II 3 Calculate Standard Deviation from the following data. CO₂ **L5** 10M Marks 0 - 1010-20 20-30 30-40 40-50 50-60 No. of 10 18 27 32 24 09 students OR a What are the application of measures of central tendency **CO1** L2 **5M** b What are the applications of Dispersion. Explain. CO₁ L₂ **5M** UNIT-III a Give a brief explanation about classification of data. CO₃ L3 **5M** b Explain different types of graphs. CO₃ L2 **5M** OR a Explain different types of Graphs in data representation with an example CO₃ L2 **5M** b What are the rules of constructing a questionnaire? CO₃ L2 **5M** UNIT-IV 7 The following data relate to the prices and supplies of a commodity **CO4** L410M during a period of nine years. What is correlation coefficient? Price(Rs) 40 45 65 75 77 87 69 94 43 Supply(Kg 30 35 25 25 19 27 38 49 12 OR a What is the meaning of regression analysis? Explain its utilities. **CO4** L2 **5M** b Explain in detail about regression coefficients. **CO4** L2 5M UNIT-V 9 A random sample of size16 has 53 as mean. The standard deviation of CO₄ **L4** 10M the sample is 3. Canthis sample be regarded as taken from the population having 56 as mean? 10 Explain the procedure involved in solving ANOVA problem. **CO5** L₂ **10M** SECTION - B (Compulsory Question) 11 $1 \times 10 = 10 \text{ Marks}$ The life time of electric bulbs for a random sample of 10 from a large consignment gave thefollowing data:

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Life in '000 hours | 4.2 | 4.6 | 3.9 | 4.1 | 5.2 | 3.8 | 3.9 | 4.3 | 4.4 | 5.6 |

Can we accept the hypothesis that the average life time of bulbs is 4000 hours?