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SCHOOL OF ENGINEERING AND TECHNOLOGY
END-SEMESTER EXAMINATION: DECEMBER 2019

(Academic Session: 2019 – 20, Semester Term: Aug 2019– Dec 2019)

Name of the Program: B.Tech./BCA/ MCA
Stream: CSE/ME/CE/EE/ECE/ MCA/ BCA
PAPER TITLE: FINANCIAL ACCOUNTING
Maximum Marks: 40
Total No of questions: 9

Semester: V

PAPER CODE: HEC43181
Time duration: 3 hours
Total No of Pages: 2

Answer all the Groups

Group A

(Answer all the questions) $5 \times 1 = 5$

1. **a)** If the total Assets of a business firm is Rs. 2,50,000 and Capital is Rs. 1,80,000, find out the Liabilities of the firm.
   b) Define Accountancy.
   c) Show the classification of Cash Book.
   d) Identify the type of Account – i) Machinery A/C, and ii) Bank A/C
   e) Name two methods of charging Depreciation.

Group B

(Answer any three questions) $5 \times 3 = 15$

2. On 1.1.2016, Ghosh & Sons Pvt. Ltd. purchased a machine costing Rs.5,00,000. On 1.7.16, the company again purchased another machine of Rs.3,00,000. Provide depreciation @ 10% p.a for two years using Fixed Installment method assuming that the company closes its accounts on 31st December every year. Prepare necessary ledger accounts for the two years. (5)

3. Differentiate between Capital Expenditure and Revenue Expenditure. (5)

4. Prepare Trial Balance from the following balances of Mr. Soham as on 31.12.2016: (5)

Capital Rs. 420,000	Cash in hand Rs. 25,000	Building Rs. 115,000
Cash at bank Rs. 84,700	Machinery Rs. 60,000	Sundry Creditors Rs. 68,000
Furniture Rs. 11,000	Rent Rs. 48,000	Car Rs. 68,000
Opening stock Rs. 86,000	Commission Rs. 1,400	Rates and Taxes Rs. 2,600
Purchases Rs. 94,000	Bad debts Rs. 3,200	Sales Rs. 196,000
Insurance Rs. 2,400	General Expenses Rs. 800	Sundry debtors Rs. 16,200
Bill Receivables Rs 7,300	Salaries Rs. 94,000	Closing Stock Rs. 12,000
Bill Payable Rs. 16,000	Interest received Rs. 5,000	

5. Explain the types of errors that a Trial Balance can disclose. (5)

6. Record the following transactions of Smith in a single column cash book: (5)

2019	
September 1	Cash in Hand Rs. 22,000
September 5	Cash received from Ram Rs. 3,000
September 7	Paid rent Rs. 4,000
September 8	Sold goods for cash Rs. 3000
September 10	Cash paid to Shyam Rs. 7,000
September 19	Purchased Furniture Rs. 2,000
September 31	Paid salaries Rs. 2,500

Group C

(Answer any two questions) **$2 \times 10 = 20$**

7. The following is the trial balance of Mr. Basak as on 31/12/2016. Prepare trading account, profit & loss account & balance sheet. (3+3+4=10)

Particulars	**Dr. Amount (Rs.)**	**Cr. Amount (Rs.)**
Purchase	1,80,000	
Opening Stock	10,000	
Salaries	6,000	
Expenses rent	3,600	
Machinery	30,000	
Wages	3,000	
Furniture & fittings	5,000	
Trade Expenses	1,500	
Debtors	10,500	
Interest on Loan	900	
Commission	200	
Building	30,000	
Sales		2,05,000
Loan		10,000
Creditor		15,000
Capital		50,700
Total	**2,80,700**	**2,80,700**

Adjustments:

a) Closing Stock is Rs 12,000

b) Depreciation to be charged on building & furniture @ 10 % & @5% respectively.

c) Prepaid wages Rs 500

8. Journalise the following transactions and also post them in Ledger Accounts in the books of Saha Trading Concern. [6+4=10]

2019		**Amount (Rs.)**
March 1	Business started with Cash	1,10,000
March 2	Purchased goods on Credit from Goyal Bros.	90,000
March 3	Goods sold with cash to Mahesh	80,000
March 4	Cash paid to Goyal Bros.	95,500
March 6	Received a cheque from Mahesh	80,000
March 10	Deposited cash in bank	6,500

9. What do you mean by depreciation? State some important characteristics of depreciation. Mention some of the causes of depreciation. (2+4+4=10)

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END-SEMESTER EXAMINATION: DECEMBER 2019

(Academic Session: 2019 – 20, Semester Term: Aug 2019– Dec 2019)

Name of the Program:(MCA) Semester: V
Stream: MCA
PAPER TITLE: Artificial Intelligence PAPER CODE:ECS53103
Maximum Marks: 40 Time duration: 3 hours
Total No of questions: 9 Total No of Pages:2

(Any other information required for the student may be mentioned here)

Answer all the Groups

Group A

(Answer all the questions)

$5 \times 1 = 5$

1. a) Define Classical AI?
   b) What is Turing test?
   c) What is sensor based planning?
   d) Define heuristic function?
   e) Define Means end analysis?

Group B

(Answer any three questions)

$3 \times 5 = 15$

2. Explain simulated annealing ?

3. Explain BreadthFirstSearch and DepthFirstSearch with example?

4. Convert the following sentence to CNF

i)Marcus was a man.

ii)Marcus was a Roman. 1+1+1+1+1

iii)Marcus was a Pompeian.

iv)All Romans are Christian.

v)Every one loyal to some one.

5. Explain both Simple reflex agent and learning agent with examples? 2.5+2.5

6. Explain goal based reflex agent with an example?

Group C

(Answer any two questions)

$2 \times 10 = 20$

7. Explain Resolution logic for the following set of sentence

i)Every woman that can be burnt is a witch.

ii)Everything that is made of wood can be burnt.

iii)Every thing that floats is made of wood.

iv)Every thing that weighs same as something floats too.

v)This girl is a woman.

vi)This weights the same as duck.

vii)This duck floats.

Proof that the girl is witch by using Resolution logic?

8. i) Explain probalistic reasoning formula with an example?

ii)Find P(SUN),P(SUN/WINTER),P(SUN/WINTER,HOT) ,from the table below? 4+6

S	T	W	P
SUMMER	HOT	SUN	.30
SUMMER	HOT	RAIN	0.05
SUMMER	COLD	SUN	.10
SUMMER	COLD	RAIN	.05
WINTER	HOT	SUN	.10
WINTER	HOT	RAIN	.05
WINTER	COLD	SUN	.15
WINTER	COLD	RAIN	.20

9. Explain both i)knowledge based agent, ii)Constraint satisfaction problem? 5+5

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END-SEMESTER EXAMINATION: DECEMBER 2019

(Academic Session: 2019 – 20, Semester Term: Aug 2019– Dec 2019)

Name of the Program: MCA
Stream: CSE
Semester: V

PAPER TITLE: Management of Information System
PAPER CODE: MBA53101

Maximum Marks: 40
Time duration: 3 hours

Total No of questions: 9
Total No of Pages:2

Answer all the Groups

Group A

(Answer all the questions)

$5 \times 1 = 5$

1.a) Give one word answer:

i)A set of instructions for a computer.

ii)The buying, selling, marketing and servicing of products over the Internet and other networks.

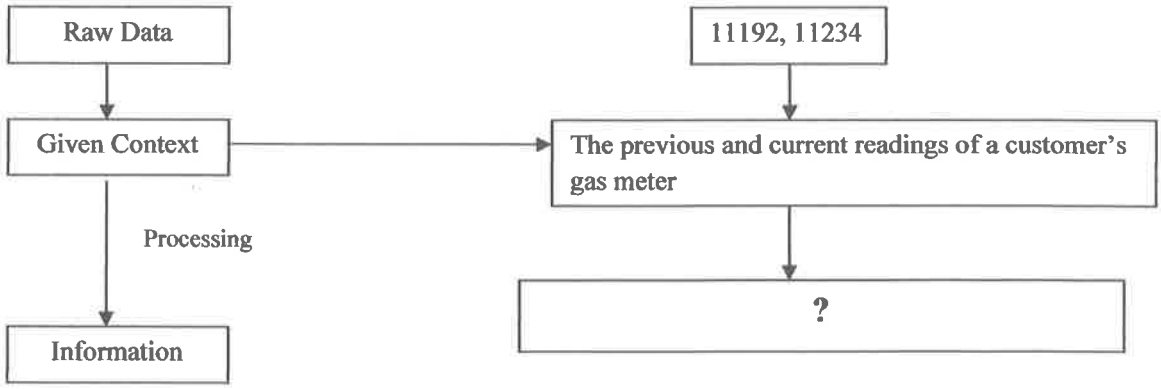
b) Any ---------- is a group of interrelated components with a clearly defined boundary working together towards the attainment of a common goal.

c) Classify into Computer Tool or MIS

i) Word processor

ii) Financial Management Software

d) What will be the processed information we can receive from the given study?



e) Define Management Information System.

Group B

(Answer any three questions)

$3 \times 5 = 15$

2. What are the four layers of Information System Architecture?
3. Specify wireless technologies which rely on microwave and radiowave.
4. Explain the concept of Customer Relationship Management.
5. "Model that emphasizes on concise development cycle." Explicate about the model.
6. What do you mean by Supply Chain Management? Explain its features.

Group C

(Answer any two questions)

$2 \times 10 = 20$

7. a) Specify the importance of DBMS.
   b) What is the role of DBMS in MIS?
   c) What do you mean by the term problem? State all stages of Problem Solving?

8. a) Using schematic diagram explain the connection between IT Infrastructure, Firma and Business Capabilities.
   b) Describe briefly:
      i) DSS
      ii) EIS

9. a) What do you mean by structured, semi structured and unstructured decisions?
   b) Write short notes on(Any two)
      i) Transaction Processing System
      ii) Expert Systems
      iii) Artificial Intelligence

******All the Best******

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END-SEMESTER EXAMINATION: DECEMBER 2019

(Academic Session: 2019 – 20, Semester Term: Aug 2019– Dec 2019)

Name of the Program:MCA | Semester: V
Stream: CSE
PAPER TITLE:Computer Graphics | PAPER CODE:ECS53101
Maximum Marks: 40 | Time duration: 3 hours
Total No of questions: 09 | Total No of Pages: 02

Answer all the Groups

Group A

(Answer all the questions)

1. **$5 \times 1 = 5$**

a) What do you mean by subtractive color model?
b) What is center of projection.?
c) What is 2D-translation?
d) What happens when a circle is scaled only in one direction?
e) Write about 2 application areas of Fractal.

Group B

(Answer any three questions)

$3 \times 5 = 15$

2. Explain 3D scaling along with its transformation matrix. 5
3. Write down the algorithm for mid-point circle drawing algorithm. 5
4. Write down the Painter's algorithm (Basic algorithm) along with its implementation. 5
5. Magnify the triangle with vertices A(0,0), B(1,1) and C(5,2) to twice its size while keeping C(5,2) fixed. 5
6. Prove that two 2D rotations about the origin are commutative i.e.$R_1R_2=R_2R_1$ 5

Group C

(Answer any two questions)

$2 \times 10 = 20$

7. a) Differentiate between Orthographic and Oblique projection.
b) What are the disadvantages of DDA Line drawing algorithm.?
c) What are the two different types of 3-dimensional object representation? Explain them. 3+2+(2.5+2.5)
8. a) Explain the Phong's shading model along with two advantages and one disadvantage.
b) Differentiate between RGB color model and CMY color model. Mention at least 5 points of difference. (3+1+1)+5

9. Explain the concept of Ray Tracing with suitable figure. Give the parametric vector representation of a ray. 5+5