Department of Computer Science &Engineering
GITAM INSTITUTE OF TECHNOLOGY
GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(GITAM)
(Declared as Deemed to be University u/s 3 of UGC Act, 1956), Accredited by NAAC with 'A+'grade
Visakhapatnam
4/4 B.Tech. (CSE) VII I Semester Mid – I Examination 2018-2019

ECS446: Real Time Systems   **Maximum Marks: 30**

Date: 27-12 -2018   **Answer All Questions**   **Time: 1 ½ hours**

1.
   a) List the different types of timing constraints that can occur in a real-time system.   2M
   b) Illustrate the "false-safe state" of the system.   2M
   c) Differentiate between periodic and sporadic jobs?   2M
   d) Give an example of an extremely safe but unreliable system?   2M
   e) Illustrate the resources of parameters.   2M

2.   Give an example of a soft real time task and a non-real time task and   10M
      Write the characteristics of these two types of tasks systems.

                                    OR

3.   a) Give brief notes on the applications of real time systems   5M
      b) Describe the safety and reliability of real time systems   5M

4.   Illustrate the significance of Real Time Systems? Write short notes
      On priority driven approach   10M

                                    OR

5.   Draw the Block diagram and show the important hardware components of a
      Real time systems and their interactions. Can you write the roles of the different components?   10M

ECS446: Real Time Systems

Date: 25-02 -2019

Maximum Marks: 30
Time: 1 ½ hours

Answer All Questions

1. a) Mention few of the Assumptions on Resources and their usages.   5*2=10M
    b) In Real-Time Communication model what are TPH and NACH?
    c) Differentiate between Local versus Remote resources in MPCP model.
    d) Describe the properties of the Priority Inheritance protocol.
    e) Write about Blocking time and context switching overhead problems in Priority Ceiling protocol.

2. Illustrate the resource sharing among real time tasks in detail.   10M

OR

3. a) Give a brief note on dynamic allocation of tasks.   5M
    b) Discuss about soft real time communication in LAN.   5M

4. Illustrate the different types of priority inversion under priority inheritance protocol.   10M

OR

5. a) Differentiate between Basic priority ceiling protocol and Priority inheritance protocol.   5M
   b) Give advantages and disadvantages of priority inheritance protocol.   5M

ECS446: Real Time Systems
Date: 28-03-2019

Maximum Marks: 30
Time: 1 ½ hours

Answer all Questions

1. a) Specify any three scheduling algorithms.   5*2=10M
   b) Specify medium access control?
   c) What is the need of Scheduling?
   d) Illustrate the features of real time systems.
   e) List the RTC data transmission modes.

2. Discuss the commercial real time operating system.   10M

(or)

3. a) Illustrate the real time protocols.   5M
   b) Specify the timing services and scheduling mechanisms   5M

4. a) Describe the critical section? Explain mutual exclusion.   5M
   b) What do you mean by resource conflicts and blocking? Explain.   5M

(or)

5. Demonstrate the open system architecture with examples   10M

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EID 444 - E- COMMERCE
Date: 28-12-2018

Maximum Marks: 30
Time: 10:00AM – 11:30PM

1.	(a) Outline the scope of e-commerce in country like India?	2M
	(b) E-commerce is the new way to do business. Justify the statement.	2M
	(c) In the context of e-commerce what are the various limitations?	2M
	(d) List out the categories of EFT.	2M
	(e) Name the properties of E-cash.	2M
2.	(a) Illustrate the E-Commerce framework highlighting its suitability to today's business environment [This question relates to Course Outcome 1: Understand the framework of E- commerce and process models]	6M
	(b) Analyze about Consumer research and Electronic Commerce? [This question relates to Course Outcome 1: Understand the framework of E-commerce and process models]	4M
	(OR)	
3.	(a) State about the Anatomy of E-Commerce applications. [This question relates to Course Outcome 1: Understand the framework of E- commerce and process models]	6M
	(b) Elaborate on Quick Response Retailing. [This question relates to Course Outcome 1: Understand the framework of E-commerce and process models]	4M
4.	(a) Demonstrate about Mercantile Process models? What is the impact of information technology on it? [This question relates to Course Outcome 1: Understand the framework of E-commerce and process models]	6M
	(b) List out the various types of Electronic payment systems. [This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]	4M
	(OR)	
5.	(a) Criticize on the smart cards and their application in Electronic payment systems. [This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]	5M
	(b) Analyze about the E-Payment Risks to Customer? [This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]	5M

Please access the solutions and scheme on xlearn from 28.12.2018

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Gandhinagar Campus, Rushikonda, Visakhapatnam-530 045, A.P., India

IV/IV B.Tech. (CSE) II Semester Mid – II Examination 2018-2019

EID444 : E-COMMERCE
Maximum Marks: 30

Date: 26-02-2019
Time: 1 ½ hours

Answer ALL Questions

1.	(a) What is EDI? Give the components of EDI.	2M
	(b) Distinguish between EFT and ACH.	2M
	(c) Give any two advantages of Efficient customer response(ECR).	2M
	(d) Give the advantages of Agile manufacturing.	2M
	(e) What is internet advertising? Give any two methods of internet advertising.	2M
2.	(a) Give the working of EDI using different layers. What are the costs in EDI implementation? *[This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]*	6M
	(b) Differentiate financial EDI and financial VANs and state their applications. *[This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]*	4M
	(OR)	
3.	(a) How does EDI build up relationship between organizations? *[This question relates to Course Outcome 2: Understand various e payment systems and role of EDI in ecommerce]*	5M
	(b) List out the advantages and disadvantages of Virtual organizations. *[This question relates to Course Outcome 3:* acquire knowledge about corporate digital library, advertising and marketing]*	5M
4.	(a) Demonstrate the two primary models of Supply Chain Management(SCM). *[This question relates to Course Outcome 3:* acquire knowledge about corporate digital library, advertising and marketing]*	5M
	(b) What are the various methods in online market research? Suggest remedial measures to overcome the limitations of the same. *[This question relates to Course Outcome 3:* acquire knowledge about corporate digital library, advertising and marketing]*	5M
	(OR)	
5.	Elaborate the concept of corporate digital library as core of document management with the help of block diagram. *[This question relates to Course Outcome 3:* acquire knowledge about corporate digital library, advertising and marketing]*	10 M

Please access the solutions and scheme on G-Learn from 28-02-2019

IV/IV B.Tech. (CSE) VIII Semester Mid – III Examination 2018-2019

EID444 – E-COMMERCE   Date: 29-03-2019

Maximum Marks: 30   Time: 1 ½ hours

Answer ALL Questions

1. (a) What is the functionality of WAIS engine?   2M
    (b) What are the WWW robots?   2M
    (c) Write short notes on Virtual Reality Modeling   2M
    Language(VRML)
    (d) What are the different multimedia storage techniques?   2M
    (e) What is codec? Give the two types of codes.   2M

2. (a) What are the challenges and problems that are encountered in   5M
    information search?
    (b) How online database is important for individual and   5M
    organizational decision making.

(OR)

3. (a) Describe the objective of information filtering. What type of 5M
    data is involved in filtering systems?

    (b) List out various emerging tools that are available in e-   5M
    commerce for consumer data interface.

4. What are the recent advancements in multimedia technology?   10M
    Explain the risks associated with them.

(OR)

5. (a) Give an overview of the various desktop components needed   4M
    for digital video processing and production.

    (b) Illustrate the various types of desktop video conferencing   6 M
    system.

Please access the solutions and scheme on G-Learn

MID – I [B.Tech CSE- VIII Semester]

Maximum Marks: 30

EHS-402: Operations and Supply Chain Management

Date: 27-12-2018 AN

Question 1 is compulsory.

1.
  a) Define: "Operations Management"?   (2m)
  b) Jot down briefly the basic differences between Goods and Services?   (2m)
  c) Enlist various flows in Supply Chain?   (2m)
  d) Distinguish between Corporate strategy and Competitive Strategy?   (2m)
  e) Represent the elements of supply chain network through a block diagram   (2m)

Answer Question 2 or Question 3

2a). Explain the contributions of different pioneers to the evolution/history of operations management.   (5m)

b). What are the major concerns of operations personnel?   (5m)

[This question relates to Course Outcome 1: comprehend the key role played by operations management in harnessing the needs of a firm]

3a). Compare and contrast various manufacturing systems with suitable examples   (5m)

b) Analyze the function and importance of operations management in   (5m)
  i) Software Development Industry (or)   ii) Airlines Industry

[This question relates to Course Outcome 1:identify specific ways in which supply chain management creates value for customers and investors (customer value and financial value).]

Answer Question 4 or Question 5

4.
  a) Elucidate the importance of supply chain drivers and supply chain links   (10m)

  b) Discuss the role of logistics in supply chain management with an example

[This question relates to Course Outcome 2:identify specific ways in which supply chain management creates value for customers and investors (customer value and financial value).]

5.
  a). What are the various steps involved in the design of SC network?   (5m)

  b). Interpret the process of enhancing value of company supply chain network by showing the variation between number of facilities and costs (transportation, inventory and facility).   (5m)

[This question relates to Course Outcome 2:identify specific ways in which supply chain management creates value for customers and investors (customer value and financial value).]

All the very best dear students

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MID – II [B.Tech CSE VIII Semester]

Maximum Marks: 30
EHS-402: Operations and Supply Chain Management

Date: 25-02-2019
Time: 1 ½ hours

Answer All Questions

1. a) Decipher the essence of "Global Supply Chain". (2m)
   b) Categorize various risks involved in SC management. (2m)
   c) Summarize the affirmative aspects of forecasting in SC process (2m)
   d) Expand the acronym "CPFR" and define the same (2m)
   e) Appraise the following comment-"Business firms like Wall Mart are good implementers of CPFR strategies". (2m)

2a). Emphasize the role of demand forecasting in supply chain process. (5m)

b). Elucidate various tools of information technology which aid in demand forecasting. (5m)
   [*This question relates to* **Course Outcome 3**: identify sources for the variability in demand and understand the impact of globalization on supply chains]

(OR)

3. "With the onset of globalization, managing supply chains has become more complex and business critical than ever before" (as reported by Forbes magazine). Focus on this situation in the context of Globalization in SC and explain the pros and cons of Globalization, you can do this probably by taking an example as well. (10m)

   [*This question relates to* **Course Outcome 3**: identify sources for the variability in demand and understand the impact of globalization on supply chains]

4a). Analyze and draw conclusions pertaining to the contribution of software industry in improving the efficacy of supply chain process. (5m)
b). What are the prime sources of risk in supply chain management? (5m)
   [*This question relates to* **Course Outcome 4**: Acquire knowledge on Risks and issues in Local and Global supply chains]

(OR)

5. Justify the statement "CPFR emanated from Efficient Consumer response (ECR)" with relevant examples. (10m)
   [*This question relates to* **Course Outcome 5**:Evaluate the procurement strategies for a given business model]

All the very best dear students

(Key to the questions may be accessed through G-learn from 27-02-2019)

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IV/IV B.Tech. (CSE) VIII Semester Mid – III Examination 2018-2019

EID 402: Operations and Supply Chain Management Maximum Marks: 30

Date: 28-03-2019 Time: 1 ½ hours

Answer ALL questions

1. a) Illustrate briefly the role of inventory in supply chain management with an example. 2M
   b) Enlist various uncertainties in inventory. 2M
   c) Distinguish LTL and FTL in supply chain transportation. 2M
   d) Signify the essentiality of replenishment policies in handling safety inventory. 2M
   e) What is the focal point of Multi-echelon analysis? 2M

2. a) Discuss the need of technology in the process of supply chain management. 5M
   b) Focus on the reasons behind uncertainties in inventory 5M

(or)

3. Justify the statement, "IT inventory management systems have evolved to incorporate more sophisticated techniques for managing inventory", preferably with an example 10M

4. Elucidate the process of decision making in transportation through various methods. 10M

(or)

5. "Supply chains use a combination of different modes of transportation", now, what is your perspective of the statement in quotes, explain in detail 10M