F–8580	Sub. Code
	7MIT3C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Information Technology

COMPILER DESIGN

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Section A (10 × 2 = 20)

Answer **all the** questions.

1. What are called as intermediate code?

2. Define parser.

3. Which type of symbol table mechanism gives greater performance?

4. Define Recursive decent parsing.

5. What is SDD?

6. What is Dependency Graph?

7. List the Storage allocation strategies.

8. What is DAG?

9. Write any two approaches to implement conditional jump.

10. What is dominator tree?

Section B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) How different phases of compiler grouped together? Explain.

Or

(b) How tokens are recognized for conditional and branching statement? Explain.

12. (a) Why symbol table is needed to compiler? Explain.

Or

(b) Let us consider the context free grammar : $S \rightarrow SS+ \mid SS* \mid .$

Show how the String aa+a* can be generated by this grammar and construct a parse tree for this string.

13. (a) Explain syntax directed Translation for Array type.

Or

(b) With Translation diagram explain reorganization of reserve word and Identifier.

14. (a) What are the issues of source language? Explain.

Or

(b) How the Three address instructions are represented in Quadruples? Explain.

15. (a) Describe target machine model for code generation.

Or

(b) Explain the concepts of dead code elimination.

Section C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the functions of lexical analyzer.

17. How Grammar is useful to check syntax in programming language? Explain.

18. Discuss on syntax directed translation scheme.

19. Describe the Translation of switch statement.

20. Discuss on simple code generator.

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F–8581	Sub. Code
	7MIT3C2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Third Semester

Information Technology

SOFTWARE PROJECT MANAGEMENT

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What is feasibility study?

2. Expand SMART.

3. Define the term methodology

4. List out the agile methods.

5. What is CPM?

6. Mention the categories of RISK.

7. Define planned value.

8. Define team structure.

9. Expand COTS

10. What is contract management?

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a short note on RISK evaluation?

Or

(b) Discuss about setting objectives.

12. (a) Write about extreme programming.

Or

(b) Where are estimate done?

13. (a) Write a short note on Monte Carlo Simulation.

Or

(b) Discuss about cost schedules.

14. (a) Write about earned value analysis.

Or

(b) Explain how data is collected?

15. (a) How teams are categorized?

Or

(b) What are the best method of staff selection?

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail about cost benefit evaluation techniques.

17. Explain about effort and cost estimation techniques.

18. Discuss about the objectives of activity planning.

19. Discuss in detail about SCM.

20. Categorize the decision-making and discuss.

F–8582	Sub. Code
	7MIT3C3

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Third Semester

Information Technology

CLOUD COMPUTING

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. List any four properties of cloud computing.

2. List any four companies offering cloud services development services and tools.

3. What is collaborative computing?

4. What is virtual company?

5. Write the benefits of web-based word processors.

6. What is the use of Hunt calendars?

7. What is cloud Federation?

8. What is Aneka?

9. What is open source cloud?

10. List the two basic products of Nimbus.

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write a brief note on History of cloud computing.

Or

(b) Write the advantages of cloud computing.

12. (a) Discuss about collaborating on Group projects and events by community Groups.

Or

(b) Discuss about collaborating on Grocery lists and collaborating on contact lists by family.

13. (a) Write about collaborating on Databases.

Or

(b) Explain any two cloud applications for project management.

14. (a) Write short notes on Amazon S3.

Or

(b) Write short notes on Hadoop.

15. (a) Write about Nimbus platform.

Or

(b) Write about the main features of Euclayptus.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Write in detail about the types of cloud service Development.

17. Write a brief note on cloud computing for corporation.

18. Write about collaboration on event management.

19. Write about the four levels of federations.

20. Write a brief note on open Nebula.

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F–8585	Sub. Code
	7MIT3E3

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Information Technology

Elective – BIG DATA ANALYTICS

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Section A (10 × 2 = 20)

Answer **all** questions.

1. What is big data?

2. List Hadoop components.

3. List the main components of map reduce.

4. Define Nearest Neighbor search.

5. What is data Stream?

6. What is cardinality estimation Problem?

7. Define Page Rank.

8. Write the purpose of iThenticate.

9. What are the types of social Network?

10. How will you identify overlapping communities in a social graph?

Section B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the characteristic of big data.

Or

(b) What are the limitations of Hadoop?

12. (a) Write map reduce algorithm for projection.

Or

(b) Discuss the applications of nearest Neighbor search.

13. (a) Describe about Data stream model.

Or

(b) Discuss on Boolean filter.

14. (a) What are the techniques of Spam texting? Explain.

Or

(b) What are the types of Spammer? Explain.

15. (a) How SimRank is used to analyze social network group?

Or

(b) Discuss on direct discovery of communities in social graph.

Section C (3 × 10 = 30)

Answer any **three** questions.

16. Discuss on traditional data management versus big data approach.

17. How RDBMS set operations are performed in map reduce? Explain.

18. What are the issues in Data Stream Querry processing? Discuss.

19. Explain briefly about Recommendation Systems.

20. How clustering of social graph used to discover groups of interacting object? Explain.

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F–8586

Sub. Code
7MIT3E4

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Information Technology

Elective – PRINCIPLES OF E–COMMERCE

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

SECTION – A $(10 \times 2 = 20)$

Answer **all** questions.

1. Sketch the generic frame work for electronic commerce.
2. List out any two types of internet.
3. What is home shopping?
4. How to managing credit risk?
5. Define EDI.
6. What is Transaction set?
7. List out any two encryption techniques.
8. What is electronic cash?
9. What are search engines? Give an example.
10. List out any two limitations of Intelligent agents.

SECTION – B (5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Explain about three components of I-way.

Or

(b) Write short notes on internet terminology.

12. (a) Explain about repurchase preparation.

Or

(b) What are the three basic categories of credit card payment on on-line networks.

13. (a) Explain the benefits of EDI.

Or

(b) Write short notes on EDI standards selection.

14. (a) What are the secure electronic payment protocols and explain it.

Or

(b) Discuss about security issues.

15. (a) Explain the web based marketing.

Or

(b) Discuss about intelligent agents.

SECTION – C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Discuss briefly about E-Business models.

17. Briefly explain about digital token based electronic payment system.

18. Explain the following.

    (a) EDI layerd architecture

    (b) EDI in action

19. Discuss about E-commerce ethics, regulations and social responsibility.

20. Discuss the website design issues.

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