

For Candidates Admitted From 2015-2017

2015-17 BCS 62C ROLL NO.....
B.Sc. DEGREE EXAMINATIONS, APRIL 2019
SEMESTER – VI COMPUTER SCIENCE
ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS
Time: 3 Hrs Max. Marks: 75

PART - A (10 X 2 =20)
ANSWER ALL THE QUESTIONS

1. What is search?
2. What is knowledge?
3. Give any one example for where AO* algorithm.
4. State Breadth-First search.
5. What is Knowledge Progression?
6. Define : Semantic Network.
7. What is Resolution?
8. State difference between Propositional and Predicate Logic.
9. What are Expert Systems?
10. Briefly explain the Knowledge Acquisition Process.

PART B - (5 X 5 =25)
ANSWER ALL THE QUESTIONS

11. a. List out the applications of AI.
(or)
b. Explain about Criteria for success.
12. a. Discuss about Best-First Search algorithms.
(or)
b. Explain in detail about the Constraint Satisfaction Problems.
13. a. Express the properties for Knowledge Representation Systems.
(or)
b. Explain about issues in Knowledge Representations.
14. a. Discuss about the process of Natural Language Generation with examples.
(or)

- b. Describe about the problems in Propositional and Predicate logic.
15. a. Give a detailed note on the various Non production Expert System Architectures.
(or)
b. With a neat diagram explain the functionality of a General Learning Model.

PART C (3 X 10 = 30)
ANSWER ANY THREE QUESTIONS

16. Discuss the State Space Search in detail with an example.
17. Explain in detail about Hill Climbing method.
18. Write a script for some situation.
19. Write short notes on - Dependence Directed Backtracking, Modal and Temporal Logics, Default Logic, Abduction.
20. Design an Expert System for the military to use in decision making when one's forces are under nuclear attack. Draw the Architecture and explain its components.

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2015-17 BCS 42C

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019
SEMESTER – IV COMPUTER SCIENCE
DATABASE MANAGEMENT SYSTEM

Time: 3 Hrs

Max. Marks: 75

PART - A (10 X 2 =20)

ANSWER ALL THE QUESTIONS

1. List out any four disadvantages of File-Processing system.
2. What is a Weak Entity set?
3. What do you mean by a domain?
4. Mention the join types.
5. Define: Referential Integrity.
6. What do you mean by Super Key?
7. What is fine-granularity parallelism machine?
8. Define : Global transaction.
9. What is the aim of Decision Support System?
10. What are the types of clustering?

PART - B (5 X 5 =25)

ANSWER ALL THE QUESTIONS

11. a) Define: Data Model. Explain its various types.
(or)
b) Explain the Database Languages in detail.
12. a) Write a short note on Additional Relational-Algebra Operations.
(or)
b) Give a brief note on the Basic Structure of SQL queries.
13. a) Explain Triggers in SQL.
(or)
b) Write a brief note on Armstrong's axioms.
14. a) Briefly explain about the Parallel Data Base Architecture.
(or)
b) Write a short note on network types.

15. a) What are the issues to be addressed in building a warehouse?
(or)
b) Briefly explain about the Multimedia Databases.

PART C - (3 X 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Explain, in detail, about the basic notations and constraints of E-R model.
17. Explain the various fundamental Relational- Algebra Operations.
18. Write a detailed note on Normalization.
19. Explain the Server System Architecture.
20. Explain the classification in Data Mining.

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2015-17 BCS 46S

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019

SEMESTER – IV COMPUTER SCIENCE

PRINCIPLES OF SYSTEM SOFTWARE

Time: 3 Hrs

Max. Marks: 75

PART - A (10 X 2 =20)

ANSWER ALL QUESTIONS

1. Define: Parse tree.
2. Write down the components of specification of source program.
3. List the various task performed at pass 1 of Two-Pass Assembler.
4. How a macro is called?
5. What is meant by scanning?
6. What is LR parsing?
7. What is meant by triples?
8. State the difference between compilation and interpretation.
9. Write down the purpose of relocation loader.
10. List the entries in Name table.

PART B - (5 X 5 =25)

ANSWER ALL THE QUESTIONS

11. a) Explain the various types of Grammars.
(or)
b) Write short note on Formal Language Grammar.
12. a) Explain the various types of Assembly Language Statements.
(or)
b) Illustrate the importance of Lexical Substitution.
13. a) Write the Regular Expression for the real numbers with optional fraction.
(or)
b) Write short note on FSA.
14. a) Explain in short about register descriptors.
(or)
b) Explain the mechanism of local optimization.

15. a) Write short note on Program Relocation.

(or)

b) Explain the concept of linking.

PART C - (3 X 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Elaborately explain various stages of Language Processing.
17. Explain, in detail, about elements of Assembly Language Processing.
18. Write down the algorithm for Bottom up parsing.
19. Discuss, in detail, about interpreter.
20. Explain, in detail about the linking for overlays.

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2015-17 BCS 41C

ROLL NO.....

B.Sc. DEGREE EXAMINATIONS, APRIL 2019
SEMESTER – IV COMPUTER SCIENCE
SOFTWARE ENGINEERING

Time: 3 Hrs

Max. Marks: 75

PART - A (10 X 2 =20)

ANSWER ALL QUESTIONS

1. Define : Software Engineering.
2. What are the models involved in Generic Process Framework?
3. List out the factors which are essential for Software Engineering practice.
4. What do you mean by Software Testing?
5. How the requirement of engineering process is accomplished?
6. What is the role of a modeler in requirement analysis?
7. Define FURPS.
8. What do you mean by refactoring?
9. Define validation testing.
10. What are the outcomes of the debugging?

PART - B (5 X 5 =25)

ANSWER ALL QUESTIONS

11. a) Explain the categories of computer software.
(or)
b) Explain the different approaches to software process assessment.
12. a) Write Explain COCOMO model.
(or)
b) Write a brief note on communication practices.
13. a) Explain how to initiate the requirements engineering process.
(or)
b) Write a short note on requirement analysis.
14. a) Explain the quality guidelines and quality attributes.
(or)
b) Write a note on cohesion.

15. a) Write a note on validation testing.

(or)

- b) Write a note on debugging strategies.

PART C - (3 X 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Explain the following:
 - i) The waterfall model
 - ii) Incremental process model
 - iii) Evolutionary process model - prototyping.
17. Explain in detail about construction practice,
18. Write in detail about flow- oriented modeling,
19. Discuss in detail about design concepts.
20. Explain in detail about strategic approach to software testing.

For Candidates Admitted From 2015-2017

2015-17 BCS 65S

ROLL NO.....

**B.Sc. DEGREE EXAMINATIONS, APRIL 2019
SEMESTER – VI COMPUTER SCIENCE
WEB PROGRAMMING**

Time: 3 Hrs

Max. Marks: 75

**PART - A (10 X 2 =20)
ANSWER ALL QUESTIONS**

1. Expand XML.
2. Expand WWW.
3. What is the use of
 tag?
4. What is the use of <h1> tag?
5. Which HTML tag is used of define an Internal Style Sheet?
6. What is the use "Font" property?
7. Expand VB script
8. What is the keyword used for declaring variables?
9. What is the use of Photoshop?
10. Expand DVD.

**PART - B (5 X 5 = 25)
ANSWER ALL THE QUESTIONS**

11. a) Briefly explain uses of Internet? List out the use of Internet?
(or)
b) Write down the Do's of creating a Websites.
12. a) Write a structure of HTML.
(or)
b) Write a short note on table in HTML.
13. a) Brief a note on table in CSS.
(or)
b) Write a short note on backgrounds in CSS.
14. a) Write down a syntax of while in VB Script.
(or)
b) Brief a note on for loop statement in VB Script.

15. a) Briefly make a note on Text in Multimedia.

(or)

- b) List out few Audio Format.

PART - C (3 X 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Write a detailed note on Domain Names.
17. Write in detail about frames in HTML.
18. Discuss in detail about adding Style Sheet to a document in CSS.
19. Explain in detail about Operators in VB Script.
20. Describe the use of Multimedia in detail.
