

(4005UNIX15)

**B.C.A. DEGREE (CBCS) EXAMINATION,
MARCH/APRIL 2019.**

(Examination at the end of Fourthe Semester)

Part II

UNIX

(Regulation 2015–2016)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write about overview of Unix operating system.
2. Explain concept of CPU scheduling.
3. How to text manipulation and user to user communication?
4. Explain about format of Unix commands.
5. Explain about sorting of files.

6. What is a online communication?
7. Write some of the features of shell programs.
8. Explain line Editors Ex and Ed.

SECTION B — (5 × 10 = 50 marks)

Answer ALL the following questions.

9. (a) Explain architecture of UNIX.

Or

- (b) Write any ten features of UNIX.

10. (a) How to create user groups and their names in UNIX?

Or

- (b) Explain Unix Documentation.

11. (a) How to changing permission modes in files?

Or

- (b) How to printing files, rearranging files?

12. (a) What are the general characteristics of VI editor?

Or

- (b) What are the file permissions?

13. (a) Describe booting process in UNIX in details.

Or

- (b) How to changing several file in SED?

(4005WPM15)

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Part II

WEB PROGRAMMING

(Regulation 2015–2016)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the components of E-Mail.
2. What is a F.T.P?
3. What is common Gateway Interface?
4. Explain concept of a Tier.
5. Explain Java servlets.
6. Explain Java Beans.
7. What is CORBA?
8. What is XML parsers?

SECTION B — (5 × 10 = 50 marks)

Answer ALL the following questions.

9. (a) Explain role of multimedia objects in web pages.

Or

- (b) Briefly outline the early history of the world wide web.

10. (a) Explain types of Tiers.

Or

- (b) Explain about forms in HTML.

11. (a) Explain life cycle of Java Applets.

Or

- (b) Explain components based E-Commerce Architecture.

12. (a) What is the significance of EDI and financial EDI?

Or

- (b) Explain DCOM.

13. (a) Explain limitations of mobile devices.

Or

- (b) What is WAP? Explain WAP features and alternatives to WAP?

(4005DSJ15)

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Part II

DATA STRUCTURES USING JAVA

(Regulation 2015–2016)

Time : Three hours

Maximum : 75 marks

SECTION A — ($5 \times 5 = 25$ marks)

Answer any FIVE of the following questions.

1. Write a short note on pointers.
2. Explain storage structures.
3. Explain ADT.
4. Explain priority queues.
5. Write a short note on heap trees.

6. What is a minimal spanning tree?
7. Explain selection sort with an example.
8. What is the difference between ordered Graph and un-ordered graph?

SECTION B — ($5 \times 10 = 50$ marks)

Answer ALL of the following questions.

9. (a) Explain linear and non-linear structures.
- Or
- (b) Explain single and double linked list.
10. (a) What is a stack? Explain implementations and applications of stack.

Or

- (b) What is a queue? Explain array representations of queue with an example.
11. (a) Explain binary search trees in detail.

Or

- (b) What is a tree? Explain tree traversal techniques.

12. (a) Explain about BFS and DFS of graphs.

Or

- (b) What is a graph? Explain graph representation and connected components.

13. (a) Write a program that implement bubble sort.

Or

- (b) Write an algorithm for merge sort and explain it with an example.
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