

1B6M18259

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Reg. No:.....

Name:.....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Sixth Semester B.Sc Computer Science Degree Examination, March 2018
BCS6B12 – Android Programming
 (2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A

Answer all questions

Each question carries 1 mark

1. Which relational database is available with Android O/S?
2. Expand DDMS.
3. When an intent carries a component name with it, it is called ----- intent.
4. ----- file provides essential information about your app to the Android system.
5. State whether true or false .The Android SDK supports most of the Java Platform, Standard Edition (Java SE), except for the Abstract Window Toolkit (AWT) and Swing.
6. Android offers its own optimized Virtual Machine, which is called -----.
7. What was the first phone released with the Android OS?
8. State whether true or false. R.java is an editable file.
9. In which directory the layout files are stored?
10. In Android, Java class file is compiled into ----- file?

(10 x 1=10 Marks)

Part B

Answer all questions

Each question carries 2 marks

11. Name any two Android built-in content providers.
12. Write XML syntax for defining String Array resources.
13. Explain activities.
14. Explain the drawable folder in android?
15. List any two Action Bar Navigation Modes.

(5 x2= 10 Marks)

Part C

*Answer any five questions
Each question carries 4 marks*

16. What is an intent?
17. What is ADB in android? Explain its uses?
18. Explain the Resources Directory Structure.
19. Explain the checkbox control with example.
20. What is a Plural resource?
21. How an Image can be set in a button control?
22. Explain ArrayAdapter and CursorAdapter .
23. Explain SharedPreferences.

(5 x 4= 20 Marks)

Part D

*Answer any five questions
Each question carries 8 marks*

24. Give details of Android cursor methods.
25. Explain Content Providers and Content Resolvers. Explain the retrieval, insert, delete and update methods.
26. Explain various Layout Managers available in Android.
27. How does a Dialog Fragment can be Constructed?
28. Explain with example:
 - 1) Dynamic Menus.
 - 2) Pop-up Menus.
 - 3) Action Bar.
29. Explain different Android Resource types.
30. Explain Android software stack.
31. Explain Android Database Classes.

(5 x 8= 40 Marks)

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester B.Sc Computer Science Degree Examination, March 2018

BCS6B13 – Fundamentals of Operating Systems

(2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A

Answer all questions.

Each question carries 1 mark.

1. Differentiate between Logical and Physical address.
2. Mention about different states of threads.
3. Which are the two modes of hardware operation?
4. List the complications arising out of concurrent processing.
5. What is TLB (Translation Look aside Buffer) miss ratio?
6. Explain the concept of swapping.
7. List any two applications where real time scheduling is required.
8. What is the key difference between preemptive and non preemptive scheduling algorithms?
9. What is meant by 'access matrix'?
10. Differentiate between 'policy' and 'mechanism'.

(10 x 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. Explain Real Time System.
12. Which are the mechanisms available for inter-process communication?
13. What is Synchronization in OS? What are the different Synchronization mechanisms?
14. Differentiate between paging and demand paging.
15. Briefly mention the history of android operating systems.

(5 x 2 = 10 marks)

Part C

*Answer any five questions.
Each question carries 4 marks.*

16. What are the data structures used in Bankers algorithm?
17. Explain any two page replacement algorithms.
18. What are the contents of PCB?
19. Describe page-based virtual memory. You should consider pages, frames, page tables, and Memory Management Units in your answer.
20. Explain about various deadlock handling techniques.
21. Explain any one classical synchronization problem.
22. Explain various file access methods.
23. Explain the architecture of a mobile OS.

(5 x 4 = 20 marks)

Part D

*Answer any five questions.
Each question carries 8 marks.*

24. Compare batch systems and time sharing systems.
25. Discuss about Operating system objectives and functions.
26. Discuss about various client server communication schemes.
27. Explain the critical section problem.
28. How virtual memory is implemented?
29. What do you mean by 'working set'? How it is related with the occurrence of 'thrashing'?
30. Discuss about different authentication and authorization methods.
31. Compare Android and UNIX Kernel.

(5 x 8 = 40 marks)

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Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
 Sixth Semester B.Sc Computer Science Degree Examination, March 2018
BCS6B14– Computer Networks
 (2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

I. Answer all questions: 1 mark each

1. OSI stands for _____.
2. In _____ topology a central controller or hub is present.
3. When two or more bits in a data unit have been changed during the transmission is called _____ error.
4. _____ command is used to manipulate TCP/IP routing table.
5. FTP uses _____ parallel TCP connections to transfer a file.
6. An IPv4 address contains _____ bits.
7. NFS stands for _____.
8. DHCP provides _____ address to the client.
9. *State true or false:* The network layer is concerned with frames.
10. *State true or false:* User datagram protocol is called connectionless because all UDP packets are treated independently by the transport layer.

(10 × 1 = 10 Marks)

II. Answer all questions: 2mark each

11. Distinguish between Internet and Intranet.
12. What is CSMA/CD?
13. Define routers.
14. What is FTP?
15. Explain how you will assign IP address to a machine in the network.

(5 × 2 = 10 Marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester B.Sc Computer Science Degree Examination, March 2018

BCS6B17(O2) – System Software

(2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A**Answer all questions****Each question carries 1 marks**

1. What is direct linking loader?
2. What is frequency reduction?
3. What are imperative statements?
4. What is the need of a program translator?
5. Define call- by- value.
6. What is LEX?
7. What is expansion time variable?
8. What is scanning?
9. What is language migrator?
10. What is a driver software?

(10 x 1= 10 Marks)**Part B****Answer all questions****Each question carries 2 marks**

11. What is synthesis phase?
12. What is the function of LEX?
13. Explain the difference between application software and system software.
14. What are assembler directives?
15. What are nested macros?

(5 x 2= 10 Marks)

III. Answer any five questions: 4 mark each

16. What are the different types of network topologies? Explain the merit and demerit of each one.
17. Explain the differences between pure ALOHA and slotted ALOHA.
18. Write a note on NIS.
19. Describe the format of TCP header.
20. What is NAT? How does it work?
21. Write a short note on samba printing.
22. Give an account on cryptography.
23. Explain the difference between packet switching and circuit switching.

(5 × 4 = 20 Marks)

IV. Answer any five questions: 8 mark each

24. Compare and contrast TCP/IP and ISO-OSI reference model.
25. Explain LRC and CRC error detection techniques.
26. With an example, explain distance vector routing algorithm used in a computer network.
27. Explain any two networking devices in detail.
28. Explain the working of DNS.
29. Write down the scripts for setting a DHCP server for dynamic host configuration.
30. What is the format of IPv4 header? Describe the significance of each field.
31. Explain various congestion control techniques.

(5 × 8 = 40 Marks)