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                                                        Name: ....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Sixth Semester B.Sc. Degree Examination, March/April 2021
BCSS6B12 – Computer Graphics
(2018 Admission onwards)

Time: 3 hours   Max. Marks: 80

PART – A
Answer *all* questions.
Each question carries *One* mark

1. LED means.......

2. Any CRT based display must be refreshing at least ....times a second.

3. The algorithm used for filling the interior of a polygon is called...

4. Bresanham circle algorithm uses the approach of............

5. The Cohen-Sutherland algorithm divides the region into ....number of spaces.

6. What is aspect ratio?

7. What is frame buffer?

8. What is antialiasing?

9. What is pixmap?

10. What is rasterization?

11. What does GIMP stand for?

12. Define view port.

                                                        (12 x 1 = 12 Marks)

PART – B
Answer *all* questions.
Each question carries Two marks

13. Define Computer graphics?

14. What do you meant by shearing?

15. What is perspective projection?

16. What are graphic input devices?

17. Differentiate between LCD& LED monitors

18. Write a short note on reflection.

19. What is the importance of homogeneous coordinate system in computer graphics?

                                                        (7 x 2= 14 Marks)

PART – C
Answer any *six* questions.
Each question carries Five marks.

20. What is window to viewport transformation?

21. What is Sutherland hodgeman polygon clipping?

22. Write short notes on display devices?

23. Explain the components and working of a CRT monitor

24. Explain about random scan and raster scan displays?

25. Write the important applications of computer graphics?

26. Explain general two dimensional rotations?

27. What is transformation? Explain two dimensional transformations?

(6 x 5 =30 Marks

PART – D
Answer any *three* questions
Each question carries *Eight* marks

28. Discuss various color models?

29. Explain Bresenham's circle generating algorithm?

30. Explain the working of DDA line drawing algorithm with the procedure and with an example?

31. Explain about   i) Beam penetration method   ii) Shadow mask method

32. Write notes on
    a) Translation
    b) Sealing
    c) Polygon filling
    d) Reflection.

(3 x 8 = 24 Marks

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Sixth Semester B.Sc. Degree Examination, March/April 2021
BCSS6B13 – Mobile Operating System
(2018 Admission onwards)

Time: 3 hours

Max. Marks: 80

PART A
Questions 1 to 12
Answer all questions- Each question carries ONE mark

1. What is view in Android ?

2. Name the two important parts of Android SDK.

3. The mechanism to invoke Android component is known as _____.

4. What two main tag are used in preference XML file to setup header ?

5. State true or false: R.java is automatically generated file.

6. The first android version was released in the year_____ .

7. The Dalvik virtual machine generates _____ extension file.

8. .apk extension stand for_____ .

9. What is ANR ?

10. _____ can be used to handle the Bluetooth functionality on a device.

11. Name any one cross platform application development tool.

12. _____ is the built-in database is Android shipped with ?

(12x1=12 Marks)

PART B
Questions 13 to 19
Answer all questions- Each question carries TWO marks

13. What are four essential states of an activity ?

14. What items are important in every android project

15. Name two ways in which you can send SMS in your android application

16. Define intent.

17. What is an AVD ?

18. How do you attach a listener to menu item click ?

19. Name the location providers that you can use to obtain your location data

(7x2=14Marks)

PART C
Questions 20 to 27
Answer any SIX questions- Each question carries FIVE mark

20. Explain the architecture of content providers

21. How to create a linear layout with view components

22. Explain Android software stack

23. Explain types of intent with example

24. Explain playing sound with audio trace

25. Explain how to create fragments in an activity

26. Explain Date Picker and Time Picker

27. Write a short note on phone gap

(6x5=30Marks)

PART D
Question 28 to 32
Answer any THREE questions- Each question carries EIGHT mark

28. Explain the fundamental components of ADT

29. What are content providers ? Explain query, read, update and delete data in content providers

30. Illustrate how to establish database activity to an android application

31. What is JSON ? Explain its uses.

32. What is the difference between geo coding and reverse geo coding ?

(3x8=24Marks)

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Name: ....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Sixth Semester B.Sc. Degree Examination, March/April 2021
BCSS6B14 – System Software
(2018 Admission onwards)

Time: 3 hours   Max. Marks: 80

Section A
(Answer all questions)

1. _____ translate assembly language program into machine language.

2. A set of tokens is the output of _____ analyzer.

3. A program that performs the relocation of its address sensitive portions by itself is known

    as _____.

4. YACC stands for _____ .

5. Undeclared and multiple identifiers are examples of

    a) Declaration error   b) Semantic error.

6. A macro call which contains call to another macro is known as _____.

7. Dead code elimination is a _____ technique.

8. Type 1 grammars are also known as _____.

9. Lexical analysis is also known as _____.

10. A middle-level language code generated by compiler during translation is known as

    _____ .

11. Semantic error is _____ error

    a) Compile-time   b) Runtime .

12. A _____ is a sequence of characters in the source program that matches the pattern

    for a token and is identified by the lexical analyzer.

(12 x 1 = 12 Marks)

Section B
Answer all questions

13. What are the elements of a macro?

14. What you mean by lexical analysis?

15. Why we perform code optimization?

16. Differentiate lexical and syntax errors.

17. What is relocatable program?

18. Write a short note on code generation.

19. What do you mean by overlaying?

(7 x 2 = 14 Marks)

Section C
(Answer any six questions)

20. Explain analysis phase in detail with example.

21. Write briefly about

    a) Single pass compiler b) Two pass/ multi-pass compiler.

22. Write a note on intermediate code generation and intermediate representation.

23. What are nested macro calls? Explain with example.

24. Differentiate linkers and loaders.

25. Explain general concept of system software (operating system, language processor, device drivers, BIOS).

26. List the six tasks involved in macro expansion.

27. Compare dynamic loading and dynamic linking.

(6 x 5 = 30 Marks)

Section D
Answer any three questions

28. Explain the phases of compiler in detail.

29. Discuss about the following

    a) Compiler b) Interpreter c) Loader   d) Linker

30. What are the types of errors that occur in compilation? Discuss about error correction routines.

31. Explain in detail the design of a macro preprocessor with diagram.

32. Explain LEX and YACC in detail.

(3 x 8 = 24 Marks)

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Name: ....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Sixth Semester B.Sc. Degree Examination, March/April 2021
BCSS6E(01) – Cloud Computing
(2018 Admission onwards)

Time: 3 hours

Max. Marks: 80

PART A
Answer all questions.
Each question carries 1 mark.

1. Explain NIST.

2. What do you mean by virtualization?

3. What is load balancing?

4. What is SaaS?

5. List the facilities provided by virtual organization.

6. What is HDFS?

7. Define Hybrid cloud.

8. What is Apache Hadoop?

9. What is Open Nebula?

10. What is twister?

11. What us the use of Google File System?

12. What do you mean by desktop security in cloud?

(12 × 1 = 12 Marks)

PART B
Answer all questions.
Each question carries 2 marks.

13. What are the essential characteristics of cloud computing?

14. Explain any two cloud service models.

15. Explain the differences between KVM and QEMU.

16. What are the features of virtualization?

17. How MapReduce framework execute user jobs?

18. List any two cloud security challenges.

19. Write down the risks of storing data in a cloud.

(7 × 2 = 14 Marks)

PART C
Answer any six questions.
Each question carries 5marks.

20. List and explain the types of deployment models in Cloud Computing.

21. Give an account om different layers of PaaS architecture.

22. Explain the advantages of Software as a Service (SaaS).

23. Explain Xen architecture with suitable diagram.

24. Explain about Resource provisioning and Platform deployment?

25. What is FOSS-Cloud? Explain its salient features.

26. What is security monitoring and incident response? Discuss.

27. Give a short account on Google File System.

(6 × 5 = 30 Mark

PART D
Answer any three questions.
Each question carries 8 marks.

28. Briefly discuss the NIST cloud computing reference architecture.

29. Explain the different levels of virtualization implementation

30. Explain about Open Nebula, Sector/Sphere and Open Stack

31. What is HDFS? Explain job management in HDFS with Architecture?

32. Give detailed account on Hadoop I/O.

(3 × 8 = 24 Mark