Model Questions

Fifth Semester B.Sc .CS/B.C.A. Degree Examination

First Degree Programme under CSS (SDE)

(2017 Admission)

CS 1541/CP 1541 - FREE AND OPEN SOURCE SOFTWARES (FOSS)

Time: 3 Hours Max. Marks 80

SECTION- A

(Very short answer type)

(One word to maximum of one sentence. Answer **all** questions.)

1. Define Operating System.
2. List any two flavors of Linux.
3. What is the use of/bin directory?
4. Define global variable.
5. What is an array?
6. What you mean by string indexing?
7. Write advantage of PHP over HTML.
8. Define Session ID.
9. Write the syntax of insert query?
10. Write short note on replace function in java script?

(10 x1 =10 Marks)

SECTION –B

(Short Answer)

Not to exceed **one** paragraph, Answer any eight questions. **Each** question carries **2 marks**

11. What is the role of shell? Explain.
12. Explain about free software policies.
13. Describe Linux kernel in detail.
14. Write a note on while loop in PHP.
15. How can we define a variable in PHP?
16. Write a note on strrev() function.
17. What are the components of a file upload form in PHP?
18. What are the steps to deleting a cookie?
19. How can we unset variables in PHP?
20. Describe the query to order the result.

21. Write a note on query to modify the data.

22. How can we insert data to MYSQL with PHP**?**

(8 x 2=16 Marks)

SECTION-C

(Short Essay)

(Not to exceed 120 words, answer any **six** questions. **Each** question carries **4 Marks**.)

23. Write a detailed note on Boume Shell.

24. Compare Free software and Open source software.

25. Write a note on GNOME Desktop.

26. How can we pass variable reference in PHP function?

27. Differentiate named and indexed array.

28. How can we start a new session in PHP?Explain.

29. Discuss the role of cookie.

30. Explain numeric data types in MYSQL.

31. Write a note on connecting MYSQL database with PHP.

(6 x 4=24 Marks)

SECTION-D

(Long Essay)

(Answer any **two** questions. **Each** question carries **15 marks)**

32. Describe features of Linux operating system in detail.

33. Write in detail about flow control functions in PHP.

34. Discuss in detail about cookies in PHP.

35. Write a simple PHP program to store details of students into a MYSQL database.

(2 x 15=30 Marks)

Model Questions

Fifth Semester B.Sc.CS/B.C.A. Degree Examination

First Degree Programme under CSS (SDE)

(2017 Admission)

CS 1543/CP 1542 - COMPUTER GRAPHICS

Time: 3 Hours Max. Marks 80

SECTION- A

(Very short answer type)

(One word to maximum of one sentence. Answer **all** questions.)

1. What do you mean by resolution?
2. What is clipping?
3. What is aliasing effect?
4. What do you mean by projection?
5. What do you mean by transformation?
6. What is a window port?
7. What is refresh buffer?
8. What do you mean by vertical retrace?
9. Which is the color produced by the intersection of primary CMYK color?
10. What is zooming?

(10x1=10 Marks)

SECTION –B

(Short Answer)

(Not to exceed **one** paragraph, Answer any **eight** questions. **Each** question carries **2 marks.**)

11. Distinguish between window port and view port.
12. What is dragging?
13. What are the steps involved to perform scaling in 3D?
14. Distinguish between uniform scaling and differential scaling.
15. What is gouraud shading?
16. What do you mean by parallel projection?
17. How surface rendering realism can be attained?
18. What are output primitives?
19. What is CYMK color model?
20. What do you mean by hidden surface removal?

21. What is reflection?

22. What is the Z-axis rotation equation of 3D homogenous coordinate?

(8 x 2=16 Marks)

SECTION-C

(Short Essay)

(Not to exceed 120 words, answer any **six** questions. **Each** question carries **4 Marks**.)

23. Explain 2D composite transformations.

24. write short note on illumination techniques?

25. Explain advantages and Disadvantages of Z-buffer?

26. Write short note on animations?

27. Explain shearing with an example.

28. Explain the working of Liquid Crystal Display.

29. Write short note on video adapters.

30. Explain the concept of warping.

31. Write short note on panning.

(6 x 4=24 Marks)

SECTION-D

(Long Essay)

(Answer any **two** questions. **Each** question carries **15 marks.**)

32. Explain the 3D transformations in detail.

33. Explain Bresenham's Line drawing algorithm.

34. Explain the working of CRT with a diagram.

35. Briefly explain Sutherland –Hodgeman polygon clipping algorithm.

(2 x 15=30 Marks)

Model Questions

Fifth Semester B.C.A. Degree Examination

First Degree Programme under CSS (SDE)

(2017 Admission)

CP 1543 - INTERNET PROGRAMMING

Time: 3 Hours Max. Marks 80

SECTION- A

(Very short answer type)

(One word to maximum of one sentence. Answer **all** questions.)

1. What is HTTP.
2. List any two web servers?
3. Define URL.
4. Name any two web browsers
5. Define Servlet.
6. Name the tag used for drawing horizontal ruler?
7. Expand XML?
8. List any two methods used for session tracking in servlets?
9. What is a hash in Perl?
10. What are the two different methods to pass information from browsers to server?

(10 x 1 = 10 Marks)

SECTION - B

(Short answer)

(Not to exceed one paragraph answer any **eight** questions. **Each** Question carries **2 marks**)

11. Differentiate between static webpage and dynamic webpage?
12. What is the purpose of a search engine?
13. What do you meant by empty tag? Give an example?
14. What is the use of <IMG> tag in HTML?
15. Write an HTML code to generate radio buttons in HTML.
16. What is <audio> tag in advanced HTML.
17. What is the purpose of POST method?
18. What is Tooltip?
19. What are Cookies?
20. How will you give comments in java Script?

21. List various background properties in CSS.
22. What are the properties available in CSS for controlling fonts in CSS?

(8 x 2 = 16 Marks)

SECTION - C

(Short Essay)

(Not to exceed 120 words answer any **six** questions. **Each** Question carries **4 marks**)

23. Explain various heading tags with example?
24. How will you create superscript and subscript text in HTML?
25. Explain font tag with its attributes in HTML with example.
26. Explain anchor tags in HTML with example.
27. What are the advantages of using CSS while designing a web page?
28. Explain the decision making statements in JavaScript.
29. Explain the concept of arrays in JavaScript with an example.
30. How will you pass parameters to a function in JavaScript? Give example.
31. Explain the lifecycle of a Java Servlet?

(6 x 4 = 24 Marks)

SECTION - D

(Long Essay)

(Answer any **two** questions. **Each** Question carries **15 marks.**)

32. Explain tags used for creating tables in HTML and its attributes with example.
33. Explain the concept of frames in HTML with example program.
34. Explain different loops in JavaScript with examples.
35. Explain various dialog boxes in JavaScript with example programs.

(2 x 15 = 30 Marks)

Model Questions

Fifth Semester B.C.A. Degree Examination

First Degree Programme under CSS (SDE)

(2017 Admission)

CP 1544 - SYSTEM ANALYSIS & DESIGN

Time: 3 Hours Max. Marks 80

SECTION- A

(Very short answer type)

(One word to maximum of one sentence. Answer **all** questions.)

1. What do you mean by system Analysis?
2. Expand SDLC.
3. Define DFD.
4. Define structured walkthrough.
5. Define audit trail.
6. What is test plan?
7. What is testing?
8. What you meant by quality assurance?
9. Define Benchmarking.
10. What are the two different methods used for training?

(10 x 1 = 10 Marks)

SECTION - B

(Short answer)

(Not to exceed one paragraph answer any **eight** questions. **Each** Question carries **2 marks**)

11. What do you mean by system? List out the elements of a system?
12. What is the importance of feasibility study?
13. What do you understand data dictionary?
14. What are the duties of system analyst?
15. Distinguish between coupling and cohesion.
16. Write qualities of a good team leader.
17. What is the purpose of training manual?
18. Difference between validation and verification.
19. What is System administration?
20. Compare Unit testing and integration testing.

21. Compare the different financial factors?
22. What are the parameters applied to select a vendor?

(8 x 2 = 16 Marks)

SECTION - C

(Short Essay)

(Not to exceed 120 words answer any **six** questions. **Each** Question carries **4 marks**)

23. Explain about SDLC with diagram?
24. Write note on various stages in system design?
25. What are the benefits of Structured Walkthrough?
26. What are the different methods used in project review?
27. Explain about DFD Components?
28. Compare top down and bottom up approaches?
29. Explain any four types of testing.
30. What is the purpose of documentation? Discuss the use of different types of documents prepared during documentation.
31. What are the criteria used for selecting a software?

(6 x 4 = 24 Marks)

SECTION - D

(Long Essay)

(Answer any **two** questions. **Each** Question carries **15 marks**)

32. a) What is meant by "feasibility study"? Discuss its importance in system development.
    b) Explain about the various fact finding methods in system analysis?
33. Write short notes on:
    i) Cost benefit analysis
    ii) Reliability and Maintenance
    iii) Modularization
34. a) Explain the levels of quality assurance
    b) What are the different conversion methods used in a system.
35. Explain the financial, hardware and software factors for vendor's selection

(2 x 15 = 30 Marks)