

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

(Autonomous)

Reg. No. 

October/November 2019 Examinations

DIPLOMA IN COMPUTER ENGINEERING

Web Programming

Year/Sem: III / V (ODD-III)

Max. Marks : 75

Time : 3 hr.

**PART-A****(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

1. What is the use of canvas element? Give their general form.
2. List out the core features of jQuery.
3. Give the general form for, for-in statement with example.
4. What are the 3 ways of calling deferred scripts?
5. Compare JSP vs JavaScript.
6. Give the syntax for HTML comment and Hidden comment in JSP.
7. What is AJAX? Expand it.
8. What is WSDL?

**PART-B****(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

9. Define web analytics. What are the importance?
10. Discuss cookies.
11. Discuss Bootstrap packages.
12. Write short notes on alert box. Give example.
13. Compare JSP vs ASP.NET.
14. Write a programme to convert entered text into uppercase.
15. Discuss the alternatives to AJAX.
16. Discuss executeUpdate ( ) and executeQuery ( ) methods.

**PART-C****(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.****(ii) All questions carry equal marks.**

17. A. Develop a home page for your college using HTML, jQuery etc. 10  
(OR)  
B. (i) Explain meta tag. 5  
(ii) Explain Basics of jQuery. 5
18. A. Define predefined objects. Explain it. 10  
(OR)  
B. (i) Explain events. 5  
(ii) Explain life span of variable with example. 5
19. A. Define directives. Explain it. 10  
(OR)  
B (i) Explain JSP Architecture. 5  
(ii) Briefly explain implicit objects.(Any 5) 5
20. A. Write a programme to get the server date & time from a JSP page by AJAX. 10  
(OR)  
B. (i) Explain purpose of AJAX. 5  
(ii) Explain Script.aculo.us 5
21. A. Explain SOAP. 10  
(OR)  
B. (i) How will you manipulate the Data in MySQL? 5  
(ii) Develop a mini project using HTML, JSP. 5

**PART-A****(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 What is motherboard Form Factor?
- 2 What is a jumper?
- 3 What is shadow RAM?
- 4 What is key bouncing?
- 5 Differentiate between cold booting and warm booting.
- 6 What are the different types of CPU's used in a laptop?
- 7 What is the use of secret codes in a mobile?
- 8 What is windows event viewer?

**PART-B****(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 Explain hyper threading.
- 10 Explain DDR2 and DDR3 RAM versions.
- 11 What is a Self Encryption drive?
- 12 Draw the block diagram of an SMPS.
- 13 How will you identify the various BIOS?
- 14 What is ESD? What are the precautions to be taken?
- 15 Explain briefly about the mobile viruses.
- 16 Explain about the clock generator in a motherboard.

**PART-C****(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.****(ii) All questions carry equal marks.**

- 17 A (i) Explain the features of Itanium processor.  
(ii) Explain about the various motherboard components in detail  
**(OR)**  
B Explain the North South bridge architecture and Hub architecture in detail with block diagram.
- 18 A (i) Explain briefly about a) SCSI b) SAS  
(ii) Explain the common problems in printers and their solution.  
**(OR)**  
B Explain the working of scanner with block diagram and its trouble shooting.
- 19 A (i) Explain the principle of operation of a LCD display with neat diagrams.  
(ii) Write short notes on BIOS interrupts.  
**(OR)**  
B Explain in detail the various faults related to hardware and software diagnosed by POST.
- 20 A (i) Draw the block diagram of a Laptop motherboard.  
(ii) What is active and passive maintenance?  
**(OR)**  
B Explain in detail the upgrading of the various components in a computer system.
- 21 A (i) Explain soldering and de-soldering of components in a mobile.  
(ii) Discuss about the antivirus software used in mobiles.  
**(OR)**  
B Explain in detail about the various IC's used in a mobile along with their functions.

Code: 150-7307

COMP

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DIPLOMA IN COMPUTER ENGINEERING

.NET Programming

Year/Sem: III / V (ODD-III)

Max. Marks : 75

Time : 3 hr.

**PART-A**

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.

(ii) All questions carry equal marks.

1. How constants are declared in C#?
2. Write the syntax for creating object.
3. What is the use of Toolbox in visual studio?
4. What is the use of progress bar?
5. Define Stored procedure.
6. Expand ADO.NET
7. Expand XML
8. What is meta data?

**PART-B**

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.

(ii) All questions carry equal marks.

9. Define CLR
10. List the versions of .NET framework.
11. Differentiate while and do...while loop.
12. Differentiate Label and Text Box.
13. Write about showdialog( ) method.
14. What is the use of getstring( )?
15. What do you mean by Data island?
16. What is XML schema?

**PART-C**

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.

(ii) All questions carry equal marks.

17. A. (i) Explain the necessity and features of Visual Studio. 5  
(ii) Explain about windows forms. 5  
(OR)  
B. With a neat sketch explain the architecture of .NET framework. 10
18. A. (i) Explain structures in C# with example. 5  
(ii) Explain the use of 'this' keyword with example. 5  
(OR)  
B. Explain any four C# operators with example. 10
19. A. (i) Explain the steps to create a context menu with example. 5  
(ii) Explain any two simple controls with example. 5  
(OR)  
B. Define events. Explain the various events of mouse with example. 10
20. A. (i) Write the steps to create stored procedure. 5  
(ii) Explain the steps needed to connect database using GridView. 5  
(OR)  
B. Explain the architecture of ADO.NET 10
21. A. (i) What are the rules to create a well formed XML document? 5  
(ii) Define SOAP. Write the advantages of SOAP. 5  
(OR)  
B. In detail explain about XML serialization architecture. 10

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DIPLOMA IN COMPUTER ENGINEERING

Software Engineering

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Max. Marks : 75

Time : 3 hr.

**PART-A****(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 What is a waterfall model?
- 2 Mention the difference between risk avoidance and risk detection.
- 3 What is Unit test?
- 4 What is reverse engineering process?
- 5 List out the benefits of ISO 9000 certification.
- 6 What is a functional testing tool?
- 7 List the advantages and disadvantages of CASE tools.
- 8 What are the components of SRS?

**PART-B****(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 Explain iterative enhancement model.
- 10 What are the factors that affect the task set for a project?
- 11 Explain the life cycle of a Debugging task.
- 12 Mention the categories of maintenance.
- 13 Define software quality.
- 14 List the basic terms used in testing.
- 15 What is a Gant chart?
- 16 Mention the ethical issues in software engineering.

**PART-C****(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question.****(ii) All questions carry equal marks.**

- |    |   |  |    |
|----|---|--|----|
| 17 | A | (i) List any four software development life cycle model. Explain the best model among the listed ones. | 5  |
|    |   | (ii) Explain ER diagram with an example  | 5  |
|    |   | <b>(OR)</b>  |    |
|    | B | (i) What are the desirable characteristics of an SRS? Explain.   | 5  |
|    |   | (ii) With a suitable example, explain the levels of data flow diagram.                                 | 5  |
| 18 | A | (i) Mention the steps and guidelines for project estimation.   | 5  |
|    |   | (ii) What are the sources of risk? Explain.  | 5  |
|    |   | <b>(OR)</b>  |    |
|    | B | Explain the project management tools- Gant chart and PERT.   | 10 |
| 19 | A | What is a Black box testing? Explain the Black box testing techniques.                                 | 10 |
|    |   | <b>(OR)</b>  |    |
|    | B | (i) Explain regression testing tool.   | 5  |
|    |   | (ii) Explain the life cycle of a Debugging task.   | 5  |
| 20 | A | Explain the categories of maintenance and the cost involved.   | 10 |
|    |   | <b>(OR)</b>  |    |
|    | B | Explain the principle and process of Re-Engineering.   | 10 |
| 21 | A | (i) Explain the important qualities of software product.   | 5  |
|    |   | (ii) Explain the ethical issues in software engineering.   | 5  |
|    |   | <b>(OR)</b>  |    |
|    | B | Explain reliability measurement process.   | 10 |