Code: 15O-7305 **COMP**

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

(Autonomous) **Reg. No.** [ ]

October/November 2018 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 Why we need web analytics?
2 What is Twitter bootstrap?
3 What is the need of script language?
4 Write any two JSP Servers.
5 What are the types of comments in JSP?
6 Write any two web applications that make use of AJAX.
7 What is the use of url attributes?
8 Define Document object.

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 What are the ways to use jQuery?
10 What is meta tag?
11 Write about form element properties.
12 What are the uses of cookies?
13 What are the types of directives?
14 What is XMLHttpRequest object?
15 Why do we need executeQuery() method?
16 What are the command requires create table in MYSQL?

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 divisions carry equal marks.

17 A (i) Explain the semantic elements in HTML5? 5
(ii) What are the important core features supported by jQuery? 5

(OR)

B Explain the process of web analytics. 10

18 A (i) Explain about different types of operators. 5
(ii) Discuss about different types of dialog boxes. 5

(OR)

B Explain different types of image maps. 10

19 A (i) Explain the following (i) Request object (ii) Session Object 5
(ii) Write a JSP program for add two numbers. 5

(OR)

B Explain the JSP architecture with neat diagram. 10

20 A (i) Develop a simple Hello world application using AJAX. 5
(ii) Explain script.aculo.us 5

(OR)

B Develop an AJAX application to get the server date and time from JSP page using AJAX. 10

21 A (i) Explain the delete operation in MYSQL. 5
(ii) Explain the types of web services. 5

(OR)

B Write a jsp code to manipulate data in MYSQL database. 10

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October/November 2018 Examinations

DIPLOMA IN COMPUTER ENGINEERING

Computer Hardware and Servicing

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 motherboard form factor.
2 What is Turbo boost technology
3 What is Level 1 and Level 2 of cache memory.
4 What is key bouncing ?
5 Define Cold & Warm booting
6 Define BIOS interrupts.
7 What is Laptop adapter?. Mention its types.
8 Define mobile VIRUS. Give one example.

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 What is memory socket. Mention its types.
10 Define Chipset. Mention its functions.
11 Explain solid state drive.
12 List different POST beep code & its related error messages.
13 List the steps to configure Laptops.
14 Give the difference between Laptop and Desktop.
15 Define Soldering, Flashing and Routing.
16 Define secret codes. Give use of any 3 Secret code in mobile.

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 divisions carry equal marks.

17 A i) Explain about XEON processor. 5
ii) Explain any 3 features of Core I series processor . 5
(OR)
B What is BIOS? Explain in detail about its different functions. 10

18 A i) Explain about various memory errors . 5
ii) Explain the working principle of Scanner with diagram. 5
(OR)
B Explain about various Trouble shooting of Printers (common problems, diagnosis and solution) 10

19 A i) Explain the working principle of Plasma panel display. 5
ii) Explain the POST faults related to Hardware. 5
(OR)
B Explain the working principle of SMPS with diagram. Also draw the power connector detail for ATX connector. 10

20 A i) Write short notes on ESD & its precautions. 5
ii) What are the types of Laptop?. Mention its significance . 5
(OR)
B Explain the steps to be followed for Upgrading of system. 10

21 A i) Write short notes on different components or parts of Mobile phone. 5
ii) Mention any 3 Mobile phone Antivirus software & its features. 5
(OR)
B Explain in detail the various mobile phone servicing kits & its functions. 10

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Code: 15O-7307 **COMP**

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

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October/November 2018 Examinations

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 What is metadata?
2 Define namespace.
3 Define Jagged array.
4 What is the use of **this** keyword?
5 Draw a windows form with three different controls.
6 Define event. Give example.
7 What is well formed XML document?
8 Define stored procedure.

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 What is garbage collection?
10 Define CLS.
11 Write the syntax of for each loop.
12 What is the use of panel control?
13 Write the syntax to establish a connection string in SQL.
14 Define data island.
15 Write short notes on XSLT.
16 What is the use of Data Grid View control?

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 divisions carry equal marks.

17	A	(i) Explain JIT compilation.	5
		(ii) With a diagram explain automatic memory management.	5
		(OR)	
	B	Explain .net objects and web service protocols.	10
18	A	(i) Write a program in c# to print the fibonacci series.	5
		(ii) Define class. Explain how objects are created in c#.	5
		(OR)	
	B	Explain structure and enumeration with example.	10
19	A	(i) Explain windows forms.	5
		(ii) Brief context menu with its types.	5
		(OR)	
	B	Explain any 3 advanced controls.	10
20	A	(i) Explain data adapter with example.	5
		(ii) How will you modify table data using command objects?	5
		(OR)	
	B	Explain the ADO.NET architecture.	10
21	A	(i) Write the difference between HTML vs XML.	5
		(ii) Define XML schema. List the need and use of XML schema.	5
		(OR)	
	B	Explain SOAP building blocks with example.	10

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Code: 15O-7401A & 11O-7401A COMP

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

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October/November 2018 Examinations

DIPLOMA IN COMPUTER ENGINEERING

Software Engineering

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 State any four differences between Program and Software product.
2 What are the tools used for information gathering?
3 State the reason for poor and inaccurate estimation.
4 Give an example for work breakdown structure.
5 What is a module? What are the advantages of using modules?
6 State any four application areas of reverse engineering.
7 State the difference between verification and validation.
8 For a function that computes the square of the integer values in the range of 100 and 1000, determine the boundary value test suite.

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 "Software does not wear out" - Comment on this.
10 State the advantages and disadvantages of CASE tools.
11 State any six factors affecting the task set for the project.
12 What are the key features of structured programming? Define them.
13 State any four needs for software maintenance? State any two categories of software maintenance.
14 State and Define any six important qualities of software product.
15 Define: (i) MTTF (ii) MTTR (iii) MTBF.
16 Write down the differences between alpha testing and beta testing.

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 divisions carry equal marks.

17 A Explain prototyping model with a neat diagram. Also state the advantages and disadvantages of prototyping model. 10

(OR)

B (i) What are the problems in SRS? Explain them. 5
(ii) What are the different components of ER Diagram? Explain different types of attributes. 5

18 A What are the different steps used for software estimation? Explain them. 10

(OR)

B (i) With a neat block diagram, explain the architecture of CASE environment. 5
(ii) Briefly explain about risk management activities. 5

19 A Explain different strategies used for white box testing. 10

(OR)

B (i) What is coupling? What are the different types of coupling? Explain them. 5
(ii) Explain three types of debugging approaches 5

20 A What is SCM? What are the activities of SCM? Explain. 10

(OR)

B (i) Explain any one of the modeling maintenance effort. 5
(ii) What is re-engineering? Explain re-engineering process with a neat diagram. 5

21 A Explain the need, benefits and limitations of ISO 9000. State any six software quality characteristics of ISO 9126. 10

(OR)

B (i) Explain software engineering code of ethics and professional. 5
(ii) Explain reliability growth modeling. 5

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