



B.E DEGREE EXAMINATIONS: MAY 2017

(Regulation 2014)

Sixth Semester

COMPUTER SCIENCE AND ENGINEERING

U14CSTE21: Content Management Using Joomla

COURSE OUTCOMES

CO1: Explain the use of web development framework

CO2: Build the Joomla web development platform

CO3: Make use of plug-in in web development

CO4: Develop web application using Joomla modules

CO5: Make use of database in web development

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Match List I with List II and select the correct answer using the codes below the list

CO1 [K₂]

List I	List II
A. Extensions	i. Extensions that render on a page
B. Plugins	ii. Add- on software program that works with Joomla
C. Modules	iii. Complicated type of extension
D. Components	iv. Adds a specific feature to an existing computer program

- | | A | B | C | D |
|----|-----|----|-----|-----|
| a) | ii | i | iii | iv |
| b) | iii | iv | ii | i |
| c) | ii | iv | i | iii |
| d) | iii | i | ii | iv |

2. After the installation of Joomla, a file called _____ will be created in the root folder.

CO1 [K₂]

- | | |
|----------------------|----------------|
| a) configuration.php | b) db.php |
| c) content.php | d) connect.php |

7. Sequence the following shuffled HTML code of JToolBarHelper::help() method, in correct order. CO4 [K₃]
1. Help
 2.
 3.
 4.
 5.
- a) 3,5,2,4,1 b) 3,5,4,1,2
c) 1,3,4,2,5 d) 3,1,2,5,1
8. _____ is a typical administrative component and is similar to many of the other backend components for managing articles, users and modules. CO4 [K₃]
- a) Front - End Weblink Component b) Back- End Weblinks Component
c) Middleware component d) Web components
9. The following items consists of two statements, one labeled as the “Assertion(A)” and other as “Reason(R)”.Examine these two statements and select the answers from the following codes. CO5 [K₃]
- A: DDL commands are used to create or modify the structure of tables.
R: In Joomla applications, we normally use only DDL commands when we install, uninstall, or update an extension.
- a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false d) A is false but R is true
10. We can divide the types of tables into groups based on the type of information they will hold. Choose the correct typical table types from the below list. CO5 [K₃]
1. Reference table
 2. Mapping table
 3. Master table
 4. History table
- a) 1,3 and 4 b) 1,2 and 4
c) 2,3 and 4 d) 3 and 4

PART B (10 x 2 = 20 Marks)
(Answer not more than 40 words)

11. Differentiate between Plugins and Modules. CO1 [K₂]
12. Illustrate Joomla execution life cycle. CO1 [K₂]

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|--|-----|-------------------|
| 13. List and describe about template files available in Joomla. | CO2 | [K ₂] |
| 14. Build a simple user registration plugin with minimum four fields. | CO2 | [K ₃] |
| 15. Differentiate between module and component. | CO3 | [K ₂] |
| 16. How do you make use of JForm in web application? | CO3 | [K ₃] |
| 17. List out any four files in Back- End Subscriptions Component Folder in Joomla and explain about it. | CO4 | [K ₂] |
| 18. How do you develop a package for a web application? List the steps involved in it. | CO4 | [K ₃] |
| 19. List out built-in JavaScript features in Joomla. | CO5 | [K ₂] |
| 20. Designing the table structure is an important part of designing a Joomla extension. Justify the statement and if it is not so, write your explanation. | CO5 | [K ₂] |

Answer any FIVE Questions:-

PART C (5 x 14 = 70 Marks)

(Answer not more than 300 words)

Q.No. 21 is Compulsory

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|---|----------|-------------------|
| 21. Briefly discuss about the Views, JForm, and Front End Views with suitable examples. | CO3 | [K ₂] |
| 22. (i). How do you setup Joomla technical environment in Linux OS? List out the steps involved in it. | (10) CO1 | [K ₂] |
| (ii). Briefly discuss about Joomla folder contents. | (4) CO1 | [K ₂] |
| 23. (i). Define templates. What is the purpose of copy template? Explain about positions in templates with an example. | (7) CO2 | [K ₂] |
| (ii). What is plugin? How do plugins work? How do you make use of plugin in a web application? | (7) CO2 | [K ₃] |
| 24. Make use of Joomla components design a webpage to show articles by current author and explain each part of the source code. | CO3 | [K ₃] |
| 25. (i). Briefly discuss about the following with suitable example or illustration, | (10) CO4 | [K ₂] |
| i. Subscriptions Manager | | |
| ii. Default controller | | |
| iii. Sub manager controller | | |
| iv. Manager view | | |
| v. Helper class | | |
| (ii). Discuss about category view and subscription view | (4) CO4 | [K ₂] |
| 26. How do you make use of PHP MyAdmin to create DDL scripts? Explain with example and list out the steps involved in it and how do you backup and copy a database? | CO5 | [K ₃] |
| 27. How do you create a JDatabaseQuery Object? How do you protect it from hackers entering malicious code in it? Explain with suitable examples. | CO5 | [K ₃] |
