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Question Paper Code	12572
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Eighth Semester

Information Technology

20ITEL801 - FREE AND OPEN SOURCE SOFTWARE TOOL

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

*Marks K- CO
Level*

Answer ALL Questions

1. State the guidelines for Effectively Working with FOSS Community. 2 K1 CO1
2. List the parameters to satisfy with the Open and Free Standards Requirement, an "Open and Free Standard". 2 K1 CO1
3. What are the two phases in the evolution of Linux? 2 K1 CO2
4. What are the terminologies used in Linux? 2 K1 CO2
5. Define GRUB. 2 K1 CO3
6. Recall the X Window System configuration. 2 K1 CO3
7. Define version control? Why is it important in FOSS? 2 K2 CO5
8. Define checkout. 2 K1 CO5
9. What are some common misconceptions about open-source software? 2 K2 CO6
10. Is Samba suitable for large-scale deployments? Justify with your answer. 2 K2 CO6

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) i) Write about the essential requirements for free open source software. 6 K2 CO1
ii) Explain in detail the four degrees of freedom. 7 K2 CO1
OR
b) i) What is FOSS licensing? 6 K2 CO1
ii) Explain a FOSS licensing model of your choice. 7 K2 CO1
12. a) Outline the boot process of Linux OS. 13 K2 CO2
OR
b) Interpret all the terminologies used in Linux OS. 13 K2 CO2
13. a) Interpret all problems with traditional commercial software compared to free open source software. 13 K2 CO3
OR
b) Demonstrate the system administration of Linux Operating System. 13 K2 CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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14. a) i) Explain a few use cases of Bug tracking System. 6 K2 CO5
ii) Explain in detail the features of package managers. 7 K2 CO5

OR

- b) Summarize how version control works in Free Open-source Software. 13 K2 CO5
15. a) Explain in detail the main components of Libre Office. 13 K2 CO6

OR

- b) Summarize the key components, benefits and controls of Samba. 13 K2 CO6

PART - C (1 × 15 = 15 Marks)

16. a) i) How can you define “my” variables scope in Perl? How it is different from “local” variable scope? 8 K3 CO4
ii) Suppose an array contains @arraycontent=(‘ab’, ‘cd’, ‘ef’, ‘gh’). How to print all the contents of the given array? 7 K3 CO4

OR

- b) i) Create a function that is only available inside the scope where it is defined. 8 K3 CO4
ii) Write a program to concatenate the \$firststring and \$secondstring and result of these strings should be separated by a single space. 7 K3 CO4