

1st SEMESTER EXAMINATION, 2022 – 23
1st Year, M.Tech – Computer Science & Engineering)
Open-Source Software Technologies

Duration: 3:00 hrs.**Max Marks: 100**

Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.

Q 1.	<p>Answer any four parts of the following.</p> <p>a) Explain the basic rules applied for naming the PERL variables.</p> <p>b) Draw an OSS Community Development Process.</p> <p>c) Discuss Kernel mode and Linux mode of operations in Linux Environment.</p> <p>d) Explain the Errors and Exception Handling in PYTHON programming</p> <p>e) What is the main difference between Linux and Windows?</p> <p>f) Define SANE.</p>	5x4=20
Q 2.	<p>Answer any four parts of the following.</p> <p>a) Illustrate the internal structure of a typical PYTHON module with the suitable example.</p> <p>b) Draw hierarchical structure of Linux File system and explain any five directories.</p> <p>c) What is Multimedia Software for Linux?</p> <p>d) How to set python environment variable PYTHONPATH on Windows and? On LINUX</p> <p>e) What is Ghostscript . How to use Ghostscript, Can Ghostscript edit Pdf.</p> <p>f) How to test php installation with a phpinfo() page under UNIX / Linux Apache / nginx ?</p>	5x4=20
Q 3.	<p>Answer any two parts of the following.</p> <p>a) Discuss the role of each phase in an OSS Community Development Process.</p> <p>b) Write is shell programming? Write a shell that will sequentially clear screen, print only name of current directory, display name of all currently logged in users.</p> <p>c) Explain cc vs gcc compiler.</p>	10x2= 20
Q 4.	<p>Answer any two parts of the following.</p> <p>a) Write a MySQL program for the following Operations.</p> <ul style="list-style-type: none"> • Create a database • Create a table • Load data into the table • Retrieve data from the table in various ways • Use multiple tables <p>b) Illustrate the internal structure of a typical PYTHON module with the suitable example</p> <p>c) Write a short note on Perl File Handling.</p>	10x2= 20
Q 5.	<p>Answer any two parts of the following.</p> <p>a) What is NGINX. How Does NGINX Work? Explain Features of NGINX. Difference between Apache and NGINX.</p> <p>b) Explain the five key perspectives on Free / Open Source Software's.</p>	10x2= 20

	c) Explain Open-source, how Open-Source development model work. and also define the values of Open-source (why people choose open source over proprietary software)?	
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