# FYCS/SEM I/OST

Time: 21/2 hrs.

Note:

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1. All questions are compulsory with internal choice.

2. Draw neat diagrams wherever necessary. 3. Figures to the right indicate full marks.

### Answer the following (any four) Q.1

(20)

Marks:75

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(a) Define the following terms: -

a) Open Source

b) Proprietary software

- (b) Write a different between open source software and free software.
- (c) Describe Open Source Development Model.
- (d) Write short note on CopyRights.
- (e) What is a license? How to create licenses?
- (f) Explain Open Source Initiatives.

## Q.2Answer the following (any four)

(20)

- (a) Study the following case studies in detail:-Drupal
- (b) Different version of Android.
- (c) What is Open Source hardware? How can hardware be open'?
- (d) Define open source design ?List different designing tools.
- (e) What are the 8 steps that contributes to Wikipedia?
- (f) What is Open Source Government? Explain benefits of its.

### Q.3Answer the following (any four)

(20)

- (a) What is Virtualization? What are its Advantages and Disadvantages?
- (b) Write a Short Note on Docker.
- (c) Define Open source database technology? Explain its different types.
- (d) Explain the following- a) Development Tools

**IDEs** 

**Debuggers** 

- (e) What is Programming Language? Explain it with an example.
- (f) What is Debugger? Explain the features of debugger.

# Q.4 Answer the following (any five)

(15)

- (a) Describe in detail the principles of open source.
- (b) What are four freedoms which define free software?
- (c) What is Testing Open Source Code? Explain any 2 testing tools.
- (d) Write short note on Starting and Maintaining a own Open Source Software.
- (e) Describe about Linux and GNU OS.
- (f) Explain LAMP.

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