UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech (CSE+ All IBM Branches)	**Semester –**	**1st**
Subject (Course): Open Source & Open Standards)	**Max. Marks**	**: 100**
Course Code : CSOS1001	**Duration**	**: 3 Hrs**
No. of page/s:2		

SECTION-A
(Attempt all questions)
(4*5=20 marks)

1. Write full forms for the following: (1*5=5 marks)
a) GNU
b) ASF
c) IDT
d) NSB
e) SCOSTA
2. What are the two methods of adoption when a national standard adopts an international standard? (2*2.5= 5marks)
3. What is an operating system? Mention some of the important functions of an operating system? (3+2=5marks)
4. Describe the drivers for adoption of open source software? (5 marks)

SECTION-B
(Attempt all questions)
(4*10=40 marks)

5. Write functions and syntax of following commands: (2*5=10 marks)
   a) ls
   b) mkdir
   c) pwd
   d) cp
   e) cat
6. Elaborate on all the drivers for open source software adoption? (10 marks)
7. Describe the stages of development process of Mozilla? (10 marks)
8. Elaborate the different roles enabled by meritocracy in ASF? (10 marks)

9. Suppose if you want to be part of open source projects, what are the steps you will follow for contribution towards open source projects? (20 marks)
10. What do you understand by the term booting? Explain the linux booting process? (5+15=20 marks)

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SECTION-A
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(4*5=20 marks)

1. Write full forms for the following: (1*5=5 marks)
a) MNIC
b) HTML
c) MOD
d) PMC
e) SCOSTA
2. What is open source software? Explain its advantages. (2+3=5marks)
3. What are the adoption barriers for adoption of open source software? (5marks)
4. Differentiate between copyleft and copyright? (2*2.5=5 marks)

SECTION-B
(Attempt all questions)
(4*10=40 marks)

5. Write functions and syntax of following commands: (2*5=10marks)
    a) grep
    b) rmdir
    c) wc
    d) cd
    e) clear
6. Discuss about OSD and OSI? (5+5=10marks)
7. Write short notes on: a) Apache Web Server   b) Brook's Law? (2*5=10 marks)
8. Elaborate the four stages followed for the national adoption of the international standards? (10 marks)

9. Eric S. Raymond paper "The Cathedral and the Bazaar" had a galvanizing effect. Elaborate this statement and also define the terms The Cathedral and The Bazaar? (20 marks)
10. When a NSB adopts an international standard, three parameters need to be focused upon. What are those parameters and explain those parameters in detail. (20 marks)