

# Exam Sheet-T-110.5150

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The total exam score is 30 points. You need to get no less than 10 points to pass the exam. The following shows the mapping of scores to the grade:

0-9.5 points: fail

10-14 points: 1

14.5-18 points: 2

18.5-22 points: 3

22.5-26 points: 4

26.5-30 points: 5

1. Give taxonomy of peer-to-peer (P2P) networks and compare the advantages and disadvantages of each category. Describe the strengths and weaknesses of P2P technology as a whole (from both technical and non-technical perspectives). (4 points)
2. Name a few practical application scenarios for Session Initiation Protocol (SIP) and P2PSIP. In your own words, describe what do you think of the future of real-time Web? (4 points)
3. Describe the evolution path of HTML family and compare the functions of each generation of HTML. What feature(s) could be added or improved in HTML5 from your perspective? (4 points)
4. Compare HTML5 and native apps. Which, in your opinion, will take the leading role in the future and why? Justify your view. (4 points)
5. Compare the mainstream mobile Operating Systems (OS), including Android, iPhone OS, Windows Phone, from both technical and non-technical perspectives. (4 points)
6. Compare cloud computing platforms and traditional data centers, including similarities and differences. Analyze the application scenarios for each type of the cloud services, Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS). (4 points)
7. Design a conceptual system that includes some of the technologies you have learnt from this course (T-110.5150). For example, cloud technology, P2P networks and HTML5 were covered in the course. You may use diagram, UML chart, or any supplementary texts to elaborate. (6 points)

Note:

- Plagiarism is strictly forbidden. Disciplinary actions will be taken against those who fail to abide.
- If you use texts from the Internet or other sources, please add a reference/citation to it.
- Your own ideas about the technology are highly appreciated.
- Answer the questions in a concise way.
- Times New Roman, Font size 10, Line spacing 1.5.
- Length of Question 1 to 6, 2 x A4 pages (maximum) per question and Question 7, 3 x A4 pages (maximum).