



Cairo University
Faculty of Computers and Information
Final Term Exam



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| Department: Computer Science | |
| Course Name: Selected Topic 1 (Cloud Computing) | Date: 4/1/2017 |
| Course Code: CS495 | Duration: 2 hours |
| Instructor(s): Prof. Fatma Omara | Total Marks: 60 |

Answer The Following Questions

Question 1: Define The Following

[10 marks]

- Scalability
- Jungle Computing
- Migration Services
- Emulation
- Virtualization

لا تأخذنا إلنا نسينا أو أخطانا
ولا تجعل علينا إصرا كما جعلته على الذين من قبلك
ولا تكلنا ما لا طاقة لنا به ...

Question 2: What The Relationship Between The Following:

[20 marks]

- Location transparency and Availability
- Public Cloud and Private Cloud
- Migration and Green ICT
- Cloud, CapEx, and OpEx
- VM Migration and SLA

Question 3: What The Similarities and Differences Between The Following:

[25 marks]

- P2P Computing and Grid Computing
- Over provisioning and Under-Provisioning
- Regular Migration and Live Migration
- Full Virtualization, Para Virtualization, and OS-Level Virtualization
- Process Migration and VM Migration

Question 4: Lab.

[5 marks]

— Assume that a junior developer needs to execute a set of tasks, such as:

- Monthly backup of data
- Daily report generation to report any errors, transactions, etc...
- Sending an email at the end of the day with some information to subscribers.
- Clearing the log files at the end of every week
- Remind yourself of a wonderful weekend coming up, every Friday at 5:00 PM

It is required to advise him with the GAE service that can help him to do these tasks?

- What is the PaaS platform that provides developers with 1Dyno for each deployed app/month?
- What is the build tool that is used to deploy applications on this platform?
- What is the repository that is integrated with this platform?

With My Best Wishes
Prof. Fatma Omara