Faculty of Engineering, KFS University

3rd year, computer and control systems dep.

Subject: exam for computer Architecture   (ECS3009)

Date: 16/ 6 / 2019, 2nd term final exam

examiner: prof. Ali Sakr

Full marks 60 M

Solve the next problems

each question is assigned to 10Marks

the exam fulfils the NARS topics **a.3, a.4, a.8. ,a.19, b.2, b.6, b.7, C3,C17**

1- **Discuss evaluation metrics for caches, how you can optimize cache characteristics**

2- **Explain the need for Virtual Memory, how access table is implemented.**

3- **discuss levels of disk RAID , I/O buffering,**

4- **compare fixed and dynamic memory segments, discuss placement mechanisms : First fit   , Best fit   , Worst fit**

5- **discuss Handshaking, sequence for interrupt , how ISR proceeds**

6- **discuss evolution of graphic displays, discuss types of touch screen technologies,**