INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: Computer Science	Date of submission: 26/05/2020
Worksheet -1	Topic: Computer System Organization	Note: Theory points

Q.I Answer the following

a) Explain the importance of computers in the modern age.
b) With a help of block diagram explain **B**asic computer organization.
c) Give suitable examples for
 i. Input devices ii. Output devices
d) Explain the function of
 i. ALU ii.CU iii.MU iv. Registers
e) Differentiate between
 i. Bit and Byte ii. Nibble and word iii. KB and MB iv.GB and TB v. PB and EB
f) How the following are different from each other
 i. RAM and ROM ii. SRAM and DRAM
g) What are the different types of ROMs?
h) Write a short note on most common storage devices.
i) How main memory is different from secondary memory?
j) What do you mean by
 i. System bus ii. Control bus iii. Data bus iv. Address bus
k) Name and explain in two sentences about the major functional components of a mobile system.
l) Software can be classified broadly into two categories.
 i. System software ii. Application software.
 Explain the difference between them in your own words.
m) What do you mean by language processors ?Brief on three types of language processors.
n) Name the Most common categories of general purpose application software.
o) What are utilities?
p) Explain
 i)Text editor ii)Backup utility iii)Compression utility iv)Disc defragmenter v)Antivirus s/w
q) Explain business software with suitable examples.
r) What do you mean by software libraries?

Q.II Fill in the blanks

i. A group of _____ bits is a Byte and A nibble is a group of _____ bits.
ii. _____ is volatile and _____ is non-volatile.
iii. ___ performs guides the interpretation, flow and manipulation of all data and information.
iv. _____ are small units of data holding places.
v. _____ is made up of transistors and capacitors and _____ is made up of flip flops.

Q.III Give the full forms for the following

i.SD card , SSD, HDD, ALU, CU, CD, DVD, SRAM, DRAM, EEPROM, BIT, VIRUS, OS, GUI, IaaS SaaS, PaaS, ICs, VLSI
ii. From the question shown above(Q.III i.) separate them into hardware and software components.

Q.IV Answer the following

a)What is an operating System? Name it's objectives.
b) Name the different types of Operating Systems -user interface.
c) Explain Command-based Interface.
d) Explain Graphical User Interface.
e) How Touch-based Interface works?
f) What is Voice-based Interface?
g) What do you mean by Gesture-based Interface?
h) What are the different Functions of an Operating System?
i) What is Process Management ?
j) Explain Memory Management.
k) What is File Management ?
l) What is the function of Device Management ?
m) "Cloud computing is an emerging trend in the field of information technology". Explain in your own words/Write a short note on it.
o) What is Infrastructure as a Service (IaaS) ?
p) Brief on Platform as a Service (PaaS).
q) What do you understand by Software as a Service (SaaS) ?
r) What is Block Chain Technology ?