



## 4<sup>TH</sup> NATIONAL ABILYMPICS –2014 CHANDIGARH

### VOCATIONAL SKILLS CONTEST

ABOVE 15 YRS.

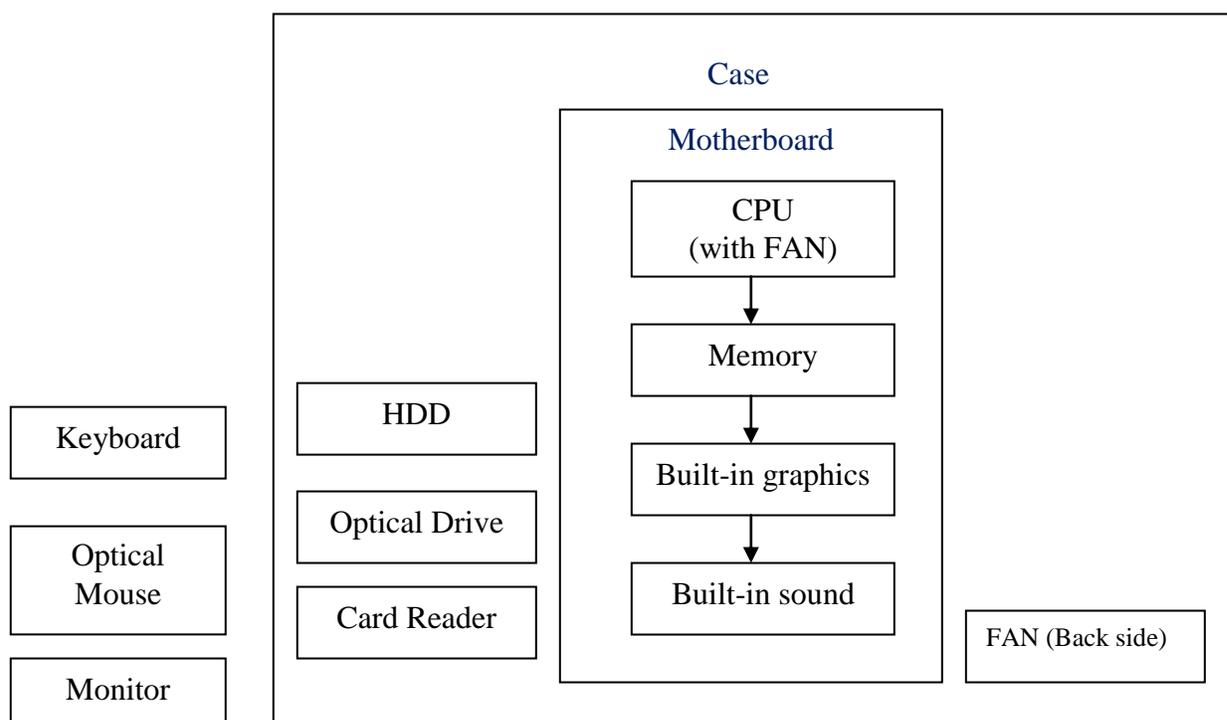
### V21 – PC ASSEMBLY

#### 1. OBJECTIVE

The aim of this contest is to allow the contestants to demonstrate their technical competence in assembling a personal desktop computer (PC) using the components and software provided.

#### 2. TASK

Contestants are required to assemble from individual components, a personal computer with reference to the given block diagram, configure the BIOS setting, install Windows 7 and drivers required for the Mother Board to make the following settings. i) Automatic updates; ii) create user account password in Windows. The hardware faults, if any, need to be diagnosed and corrected.



### 3. **SPECIAL INSTRUCTIONS**

- Request for replacement due to a defective product or missing part will be accepted only prior to the contest.
- Contestants who have damaged any part or made any part unusable shall notify the organizer. Such part will be replaced to enable the contestant to continue the work. However, the replacement shall be subject to deduction of marks.

After assembling the computer set the BIOS as follows:

1. After loading the default setting set the date and time.
2. Disable the serial port.
3. Disable the Ethernet port.
4. Create BIOS password
5. Change the booting order as specified below before installing the OS.
  - DVD Drive
  - Hard Disk
6. Create 3 partitions in the Hard Disk
7. Connect to Wi-Fi
8. Setup Network Printer & Print a test page.

### 4. **EQUIPMENT, TOOLS AND COMPONENTS**

Components :

- Colour Monitor
- Optical Mouse
- Keyboard
- PC cabinet with SMPS
- Hard Disk Drive unformatted (SATA)
- DVD Writer
- CPU Motherboard with BIOS
- CPU Chip
- CPU fan
- Thermoplastic moisture-proof wire
- RAM
- SATA Cable
- Fan
- Wi-Fi card

Software : Windows 7

Tools: Multimeter

- Combination cutting pliers
- Cross Point Screwdrivers
- Screwdriver set

Note: Contestants who want to use their own tools are requested to prepare a list of the same and present the same to the Judges for approval

## 5. WORK ENVIRONMENT

All the components will be placed on tables. In case of a special working condition requirement, the same should be indicated twenty four hours prior to the contest.

*Printer with lain cable*

## 6. ALLOCATED TIME

Maximum time : 4 hrs.

## 7. EVALUATION CRITERIA

Items to be Evaluated	Maximum Marks Allotted
Completeness of Assembled PC	15
Functionality of Assembled PC	30
Neatness and quality of work (wiring layout, cable line)	10
BIOS (Setting etc.)	15
Windows 7 (Setting etc.)	20
Keeping worktable – Neat & Tidy	5
Fault Diagnosis	5
<b>Total Marks</b>	<b>100</b>

*Note* : Marks will be deducted for any damage due to bad handling.