

AA+ MOBILE REPAIRING INSTITUTE

Solved Paper I



Question 1- Screw Driver set (Key set)

It consists of many sizes and shapes screw drivers. A standard screw drivers set consist of 5 screw drivers.

1- Minus shaped 1.5mm size screw Driver.

2- Plus shaped 1.5mm screw Driver It is called T4. It is also called universal key.

3- 8 Edged screw driver. T8mm sized. It is also called T8.

4- 6 Edged screw driver. T6mm sized. It is also called T6.

5- Star shaped screw driver. 0.8mm sized. It is also called T5.

Question 2-



Digital Multimedia Testing Meter (Multimeter).

Probs Red for +tive & Black for -tive or GND(ground)

Uses:

Digital multimeters are measuring instruments that can measure quantities such as voltage, current, and resistance. Measured values are shown on a digital display, allowing them to be read easily and directly, even by first-time users.

Question 3-

Buck Coil

SMD coils are soldered directly on the circuit board.



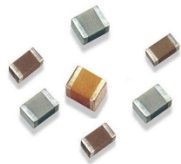
It looks black in color and has a metal pad on both sides. The shape of the SMD coil is cuboid

Coils are used in the Backlight section, Buck line Power Section, and Network Section in Mobile Circuit Board.



CAPACITOR:

It is found in any section of a mobile phone. Its height is little more than chip resistance. It can be of gray, yellow or brown in color. It has no Positive (+) or Negative (-) side. It filters DC current.



Boost Coil:

Its size is little bigger than coil. It is found in black colour and looks like a large button. Its function is to increase current. If this coil gets damaged then it has to be changed.



Question 4-

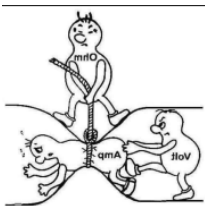
Welding Flux (Broza) It is brown coloured hard flux. It is use to cleaning surface of p.c.b as well as soldering iron bit. It's basic purpose is to remove extra soldering from p.c.b surface and components prints.



Soldering Paste: It is found in different colours like yellow or brown etc. It is used to remove ic's and components from p.c.b. when we apply heat it converts in oil and absorb in soldering area and melt it to remove components easily.



Question 5-



In a mobile p.c.b current travels in three form Volt Amper and Ohm. Volt is an electromotive, It push full value current to components in form of Amper but different components require different value of current for this purpose resistors are use which hold current in the form of ohm to provide required current in the components.

We can find volt Amper and Ohms value by the following formulas

(1) Voltage is equal to current multiplied by resistance ($V=IR$).

(2) Resistance is equal to voltage divided by current ($R = V/I$).

(3) Current is equal to voltage divided by resistance ($I = V/R$).

