

One Year Diploma, Mobil Communication Examination 2014

Model Answer

Subject:- Tablet PC Repair

Paper Code:- 410104

Sets (I) / (II)

- Ans. → (Qn) (I) (i) - (a) (iv) lenovo
(b) (ii) - (a) (i) switched mode power supply
(c) (iii) - (a) (ii) Google
(d) (iv) - (a) (iii) Accelerometer
(e) (v) - (a) (i) mAh
(f) (vi) - (a) (iii) Radio frequency
(g) (vii) - (a) (i) light
(h) (viii) - (a) (iv) All
(i) (ix) - (a) (i) kilo watt hour
(j) (x) - (a) (i) Resistance

Ans. (2) (A)

→ An operating system is a software that manages computer hardware resources and provides common services for computer programs. The OS is an essential component of the system software in a computer system. The application program requires an OS to function.

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Some OS used in a tablet PCs are given below :-
(i) Android (ii) ios (iii) windows (iv) Linux

etc.

Ans. Q.2 (B)

- There are many differences between tablet and Laptop. A comparison between the both is given below.

- (a) Input method → Laptops have dedicated keyboard while Tablets have touch screen input.
- (b) size → size and weight of tablet is small than laptop. Thus it is more portable.
- (c) Battery life → Tablets can achieve whole usage while Laptops can run at most 4 to hours.
- (d) storage capacity → Laptops have large storage capacity but a tablet is limited to 64 GB.
- (e) Performance → Laptops are more powerful computer than tablets.

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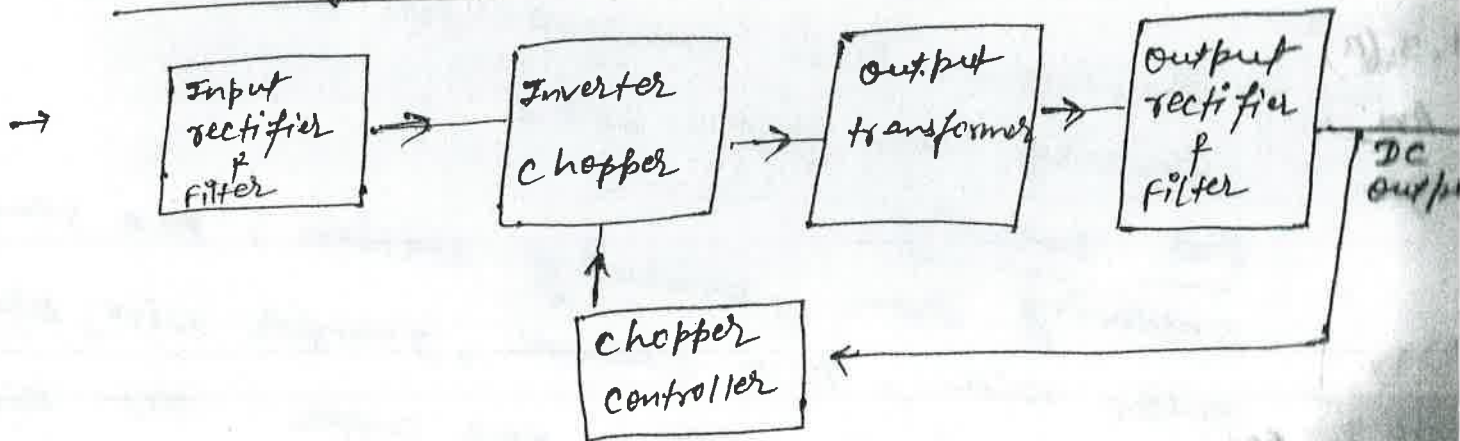
Q.2(c).

Ans: → A switched mode power supply (SMPS) is an electronic power supply that uses a switching regulator to convert electrical power efficiently.

The SMPS has following advantages :-

- (i) High efficiency
- (ii) smaller size
- (iii) light weight
- (iv) low heat generation

Block diagram



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Q.3 (A)

Ans. → safety guidelines for working on high voltage

- (a) Don't work alone
- (b) wear Rubber bottom shoes
- (c) wear eye protection
- (d) Don't wear jewellery
- (e) Have a fire extinguisher rated for electrical
Fire
- (f) use a dust mask
- (g) Know your equipment
- (h) Discharge power supply filter capacitors

Q.3 (B)

Ans. → Important tools required for tablet PC repairing are given below :-

For soldering :-

- soldering Iron, soldering station, PCB stand,
- solder wire, PCB cleaner, jumper wire, blade-
- cutter, point cutter, nose cutter. Hot air-
- blower, ultra sonic cleaner, paste flux.

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For opening the case

→ Precision screw devices, tweezers, brush, mobile opener, screw driver kit.

For measurement

→ multimeter, LCD tester

Others

→ Battery booster, magnifying glass, DC Power supply, microscope, Battery tester.

Q.3. (c)

Ans. → Multimeter is an electronic instrument which is used to measure various electrical quantities such as voltage, current, resistance etc.

Steps to measure DC voltage in a circuit

→ (i) connect the red test lead to V/MA jack and black lead to 'COM' jack.

(ii) set the "Range switch" to desired DC VOLT position. If the voltage to be measured is not known then set the switch to the highest range.

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and reduce it step wise

(iii) connect the test leads to the circuit

(iv) Turn ON power of the circuit. ~~tot~~
voltage will be displayed on the LCD

Q (4)
Ans → A tablet PC is a mobile computer with display, CPU and battery in a single unit. Tablets have some additional features than desktop PC such as camera, microphone, accelerometer, touch screen etc. computer mouse and keyboard are replaced by touch screen. An on screen pop up virtual keyboard is used for typing. The size of tablet PC is larger than 7 inches.

Features of Tablet PC

- (i) Hardware :-
 ⇒ High definition display
 → Wi-Fi and bluetooth connectivity

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Sets (I) / (II)

- mobile connectivity via SIM card
- Front / Back facing camera
- Light weight and longer battery than Laptop
- Usb port for keyboard or other peripherals.

(ii) software :-

- mobile web browser
- E book reader
- media player
- Downloadable apps
- Email and social media
- video conference
- mobile phone function

(iii) Data storage :-

- on board flash memory
- parts for removable storage
- cloud storage
- Local storage on a LAN

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Q.5 -
Ans → The essential steps to replace Touch screen is given below :-

step ① → Remove the plastic back cover of the tablet with the help of screw driver and plastic opening tool.

step ② → The wi-fi antenna is attached to the bottom right edge of the rear case via screw and cable. So proceed with caution.

step ③ → Holding the tablet by the top and bottom right corners, rotate the front glass away from the tablet.

step ④ → Remove the screws securing the LCD to the rear case.

step ⑤ → Lift the LCD from its long edge closest to the volume buttons and rotate it out of the rear case.

step ⑥ → Pull the display data cable out of its socket on the logic board.

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Sets (I) / (II)

Step (7) → Remove the small strip of black tape covering the display data cable connector on the LCD.

Step (8) → Pull the display data cable out of its socket and remove it from the LCD.

Step (9) → Now replace the new LCD by connecting the data cable as it was removed.

Step (10) → Finally reassemble the display by screw in its place carefully and close the back cover.

Q.6. Ans. → Transmission media is a pathway that carries the information from sender to receiver. The data is transmitted normally through electrical or electromagnetic signals.

The transmission media can be classified into two groups:

- (i) wired or guided media
- (ii) wireless or unguided media.

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Sets (I) / (II)

(i) Wired media

- These are the cables that have physical existence and limited by physical geography. The main types of wired media are twisted pair, coaxial cable and optical fiber. Each of them have their own characteristics like transmission speed, effect of noise - physical appearance and cost etc.

(ii) Wireless media

- The wireless transmission media are the ways of transmitting data without using any cable. Now a days the wireless communication is becoming very popular because of its features like mobility and high speed. Some of the wireless media used for transmission are Radio waves, microwaves and infrared.