

# DR KALAM POLYTECHNIC COLLEGE

## COMPUTER HARDWARE & SERVICING

### UNITWISE IMPORTANT ONE MARKS QUESTIONS

#### UNIT - I

1	Define processor socket	APR 15, OCT 15
2	What do you mean by chipset?	APR 15, APR 16
3	Define jumpers.	APR 14 , APR 15
4	Define motherboard form factor.	OCT 15
5	Define turbo boost technology.	
6	Where xenon processors are mainly used?	
7	Give the technology used in titanium processor.	
8	Give the component connected with sort bridge.	
9	What is the use of a port?	
10	What is a firmware?	APR 16
11	What is meant by PCI?	APR 16
12	What is the use of AGP?	OCT 15
13	Expand the term USB.	APR 14, APR 16
14	Expand PCMC/A.	
15	Define processor bus.	

#### UNIT - II

1	Give the full form of RAM.	APR -14, APR 15
2	Define access time.	APR 16
3	Define wait states.	
4	What is meant by flash memory?	APR 14
5	What is meant by shadow Ram?	OCT 15
6	Define cache memory.	APR 15
7	What is a memory stick?	

8	List the types of memory errors.	
9	What is meant by SATA?	
10	What is a disk array controller?	
11	Give the types of formatting.	
12	Name the type of laser used in blue-ray disk	APR 15, APR 16
13	What is memory stick?	OCT 15, APR 16
14	Define solid state drive.	
15	What are external drivers?	OCT 15

#### UNIT - III

1	Define keyboard interfacing.	APR 15
2	List the type of keys.	APR 14
3	Define key bouncing.	
4	Give the type of bouncing.	
5	What is the use of CCD in a scanner?	APR 14
6	Define barcode scanner.	APR 16
7	Give the principle of dot matrix printer?	
8	Define modem.	OCT 15, APR 16
9	What is a multi function?	
10	Define router.	
11	Expand IDE.	APR 14, APR 16
12	Mention the types of printer.	
13	What is optical mouse?	APR 15
14	How web camera will work?	OCT 15, APR 16
15	How barcode scanner used?	

#### UNIT - IV

1	What is panel display?	
2	Give the full form of LCD and LED?	
3	What is the use of video capture card?	
4	Define Adaptors.	
5	Give the full form of SVGA and EGA.	OCT 15

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## COMPUTER HARDWARE & SERVICING

### UNITWISE IMPORTANT TWELVE MARKS QUESTIONS

#### UNIT - I

- |   |  |   |
|---|--|---|
| 1 | Explain motherboard architecture.  | APR - 14 ,OCT - 14 ,<br>APR - 15, OCT - 15,<br>APR - 16, OCT - 16 |
| 2 | Draw the function block diagram of Pentium and explain it.                               | APR -14   |
| 3 | Briefly explain about the features of hyper threading turbo boost and core technologies. | APR -14   |
| 4 | Explain core i series processors.  | OCT -14, OCT -15  |
| 5 | Briefly explain about AMD series processors.   | APR - 13  |
| 6 | Define chipset and briefly explain hub architecture.                                     | APR -15   |
| 7 | Briefly explain the different bus standards in details.                                  | OCT -14, OCT - 16   |

#### UNIT - II

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|---|---|--|
| 1 | Briefly explain DDR2 and DDR3.Explain direct RDRAM.                       | OCT - 13                                 |
| 2 | Explain cache memory.   | APR -14, APR 15                          |
| 3 | Briefly explain the memory errors.  | OCT - 12                                 |
| 4 | Explain the construction and working of hard disk.                        | APR -14, OCT -14,<br>APR - 15 , APR - 16 |
| 5 | Explain about the problem faced in hard drive and its trouble shooting.   | OCT -15, OCT-16                          |
| 6 | Explain the recording and play lack principles of blue-ray.               | APR -16                                  |
| 7 | State the features of external drivers, memory stick and USB flash drive. | APR -14, APR -16                         |
| 8 | Explain the construction and working principle of DVD.                    | OCT - 14                                 |
| 9 | Explain the different types of hard disk specifications.                  | OCT - 16                                 |

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|----|---|-----------------------------------|
| 6  | Give the full form of SMPS.                               | APR 16                            |
| 7  | List the output voltage levels of SMPS.                   | APR 14, APR 15,<br>OCT 15, APR 16 |
| 8  | Define power good.  |                                   |
| 9  | Give the difference between off-line ups and on-line ups. |                                   |
| 10 | What is the use of Stabilizers?                           | OCT 15                            |
| 11 | Define spike guard.                                       | APR 16                            |
| 12 | What is mean by BIOS?                                     | APR 14, APR 16                    |
| 13 | Define cold and warm booting.                             | APR 14, OCT 15                    |
| 14 | Expand UPS, TFT.  | APR 14, APR 15, APR<br>16         |
| 15 | What are the interrupts involved in the BIOS.             |                                   |

#### UNIT - V

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|----|---|---------------------------|
| 1  | Define POST.                                | OCT 15                    |
| 2  | Define error and error messages.            |                           |
| 3  | Give any two difference laptop and Desktop. |                           |
| 4  | Give the types of laptop.                   | APR 14, APR 15, OCT<br>15 |
| 5  | Give the types of SMD components.           | APR 14, APR 16            |
| 6  | Define laptop adapter and its types.        |                           |
| 7  | List the types of laptop batteries.         |                           |
| 8  | Define active and passive maintenance.      | APR 14, OCT 15, APR<br>16 |
| 9  | Define diagnostics software                 |                           |
| 10 | List any three antivirus software?          |                           |
| 11 | What is computer virus?                     | APR 14                    |
| 12 | What is IP?                                 |                           |
| 13 | What is a firewall?                         | APR 15, OCT 15, APR<br>16 |
| 14 | What are classes of IP?                     |                           |
| 15 | Expand VIRUS, ESD.                          | APR 15                    |

### UNIT - III

- 1 Explain the different type of keyboard connectors and the signals. . APR-14, APR - 16
- 2 With neat diagram explain keyboard matrix. APR - 16
- 3 Explain the diagram explain keyboards. OCT – 14 , APR-15
- 4 Draw the trouble shooting flow chart for a mouse. APR – 15, OCT -12
- 5 List the preventive maintenance of keyboard.
- 6 Explain the basic principle of operation of a laser printer. APR -15 , APR - 16
- 7 Explain the operation of optical mouse. OCT -12, OCT -13, OCT – 14, APR -15, APR - 16
- 8 Explain the working principle of web camera. APR -15 , APR -16
- 9 Explain broadband router and its application. OCT -15
- 10 Briefly explain the operation of a scanner. APR – 14, APR -15, OCT - 16

### UNIT - IV

- 1 Explain the principle of LCD. APR -15, OCT -15, APR - 16
- 2 Explain plasma displays. APR -14, OCT -14, APR-15
- 3 With neat diagram explain TFT displays. OCT -12, OCT -13, APR-14 , OCT -14, APR-16
- 4 Explain LCD displays. OCT -16
- 5 Define graphics card and give its application. OCT-15, APR -15
- 6 With neat diagram explain video capture card. OCT -11 ( K SCHEME )
- 7 Explain SMPS. APR -15 , APR – 16 , OCT - 16
- 8 Draw the block diagram ATX power supply connection and explain. APR -14
- 9 Describe the common SMPS failure.
- 10 Draw the block diagram of UPS and explain its operation. OCT – 12 , OCT -14, APR – 16
- 11 Explain the BIOS function, BIOS interrupts. APR -15 , OCT -15

### UNIT - V

- 1 Explain the POST faults related to hardware. APR -14, OCT - 16
- 2 Explain laptop block diagram. OCT -15
- 3 Define configuring laptops and explain. OCT -15
- 4 How to configure laptop power setting. OCT - 16
- 5 Explain ESD and its precautions. OCT – 11 ( K SCHEME )
- 6 Explain the laptop battery types and its basic problems. APR – 11 ( K SCHEME )
- 7 Explain the steps to upgrade a motherboard. APR -14, APR -16 , OCT - 16
- 8 Explain the preventive maintenance for a laptop. OCT - 16
- 9 What is computer virus? What are precautions to be taken to avoid viruses? APR – 14 , OCT – 14 , APR - 15, OCT - 16
- 10 Explain about Firewall. APR – 14 , OCT – 14 , APR - 15, APR – 16, OCT - 16