Pokhara University affiliate

LA GRANDEE International college

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| Level: Bachelor | | **First Assessment-Fall** | Year : 2024 | |
| Programme: BCA I | | | Full Marks : 50 | |
| Course: Workshop(SET A) | | | Pass Marks : 25 | |
| Time : 1.5 hrs. | |
| *Candidates are required to give their answers in their own words as far as practicable.* | | |
| *The figures in the margin indicate full marks.* | | |
| Attempt all the questions. | | |
| 1.a. | | Fill in the blanks.   1. \_\_\_\_\_\_\_ is a type of power supply that converts electrical power using high-frequency switching. 2. The main PCB in a computer system, which connects the CPU, RAM, and peripherals, is called the \_\_\_\_\_\_\_. 3. \_\_\_\_\_\_\_ processors can execute multiple instructions simultaneously, making them efficient for multitasking. 4. \_\_\_\_\_\_\_ is the temporary storage used by the CPU to store data and instructions during operation. 5. \_\_\_\_\_\_\_ are small holes in the PCB that allow connections between different layers. | | | 5 | |
| b. | | Multiple Choice Question: i. What material is typically used as the substrate for a PCB?  a) Aluminum b) Fiberglass c) Copper d) Plastic  ii. Which layer on a PCB provides reference markings and labels?  a) Copper Layer b) Silkscreen c) Substrate Layer d) Vias  iii. What is the primary role of the Control Unit (CU) in a CPU?  a) Perform arithmetic operations b) Store instructions temporarily  c) Render graphics d) Manage data flow and coordinate operations  iv. Which type of processor architecture is designed to execute simple instructions efficiently?  a) CISC b) RISC c) Hybrid d) Multi-core  V. What does SMT stand for in the context of PCB technology?  a) Standard Mount Technology b) Surface Mount Technology  c) Synchronous Mount Technology d) Secure Mount Technology | | | 5 | |
| 2.a. | | Write a basic HTML file to display the following layout (use external CSS only with the filename “style.css”).  *Heading 1 color = red*  *Heading 2 color=green*  *Heading 3 Color = blue*  *Paragraph background color= orange*  *Link for anchor text =https://google.com Image source = “image.jpg” And alt text is=” Google”* | | | 7 | |
| b. | | Explain the type of software with examples. | | | 8 | |
| 3.a. | | Write steps and Precautions while installing windows. | | | 10 | |
| b. | | Explain any 5 basic protocols with their use case and ports | | | 5 | |
| 7. | | Write Short Notes on (any one)   * 1. disk partition   2. device manager | | | 2x5 | |