

Pokhara university Service Commission
Curriculum for Instructor Level Examination
(Computer Applications)

Full marks: 100

Part-A : Higher Education in Nepal : An Overview :- 30

1. History of Higher Education in Nepal.
2. Introduction of Multi-University concept.
3. Pokhara University and its function with special reference to
 - a. Pokhara university Council
 - b. Academic council
 - c. Service Commission
4. University Grants Commission.

Part-B

An Overview:- 70

1. **Semiconductor devices:** Junction diodes, Zener diodes, Transistors, MOSFETs, Integrated Circuits.
2. **Power Supplies and safety:** sources of e.m.f., Rectifier circuits, Power control.
3. **Measuring Instruments:** MultiMeters, Oscilloscopes, Signal generators, Frequency counters.
4. **Analogue Electronics:** Amplifiers and feedback, Impedance matching, Operational amplifiers.
5. **Digital Electronics:** Logic gates, Numbering systems, Logic circuit designs, bistable and Astable Multivibrators, Binary counters, Registers and memories, Digital systems.
6. **Computers and microprocessors:** Digital computers, Computer peripherals, Microprocessors, Computer softwares, High and low level languages.
7. **Computer Software:** history and significance, Systems software, Application software, Software issues, Programming languages, Enterprise software.
8. **Managing Organisational Data and Information:** Databases (modern approach), Database Management System, Logical Data Model, Data Warehouses.
9. **The Internet and Intranets.**
10. **Applying Information Technology for Competitive Advantage**