

SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF SYSTEM ANALYST UNDER
DIRECTORATE OF TECHNICAL EDUCATION
(GOA COLLEGE OF ARCHITECTURE)
(Adv 08 Year 2021)

- I. General English including Grammar - 10 marks**
- II. General Knowledge, Current Affairs and Events of National and International Importance - 10 marks**
- III. Logical Reasoning and Analytical Ability - 25 marks**
- IV. Core: - 30 marks**

Computer Networks & Operating System

Routing Protocols, SMTP (Simple Mail Transfer Protocol), Virtual LAN (VLAN), VoIP (Voice over IP), Wireless Networks, WLAN, Wi-Fi, LAN Testing, Network Extension, Network Protection & Security Threats, Network Change Management, LAN Proxy Server, Web Servers & File Servers, Subnet Mask, IP NAT, Server Configurations and Types of Firewalls, Firewall Management. Operating System: Microsoft Windows & Linux Installation & Configuration.

IT Project Management

Software Development Life Cycle, Requirement Analysis & Engineering, IT Project planning & Execution, Rational Unified Process, Unified Modeling Language, software Analysis & Design, Concepts of OOPs, Object Oriented Analysis and Design, Cost & Benefit Analysis, Software Change Management, IT Vendor Management, client/ serverarchitecture, deployment of web based applications.

Internet & Web Technologies

HTML, Java Script, JSON, AJAX, XML, Web Servers: Tomcat, Apache, WAMP, IIS etc, Server Programming Language- C++, Java, .Net , PHP, Web Design Tools, Mail clients, Browser Configuration, DNS & Web Hosting, Static & Dynamic Web Development.

Software Tools & Techniques

Learning Management System (LMS), Content Management System (CMS), Software Installation & Configuration, Database Management System- Database design, Data Analyst, ER diagrams, Database Client: SQL Yog, SQL Developer, Database Server- My SQL, Oracle, SQL Server Object Relational Mapping (ORM) Tools

Note:

*** Duration for C.B.R.T : 90 Minutes**

***Maximum Marks for C.B.R.T : 75 Marks**