



J. C. Bose University of Science and Technology, YMCAs, Faridabad
(formerly YMCA University of Science and Technology)

A State Govt. University established vide State Legislative Act. No. 21 of 2009

Sector, Faridabad, Haryana -121006

Ph:0129-2310158, 2242143 (Fax) web: www.ymcaust.ac.in



Ref: E-Rectt-4/ 2018/4040-4050

Date: Jan 08, 2019

Dear Applicant,

Sub: Notice for written & skill test for the post of System analyst cum Programmer

With reference to your application for the post of System Analyst cum Programmer (leave vacancy) against Advt. No-4/2018, you are advised to report for the written test on 21st Jan 2019²⁰¹⁹ at 9:00 am & thereafter for skill test at 1:00 pm on 21st Jan 2019 in the University, along with valid proof of Identity bearing your clear photograph. The details of these tests along with Selection Criteria are attached herewith.

The applicants who qualify these tests (written as well as skill) and found eligible as per eligibility conditions specified will be called for Interview scheduled to be held on Jan 22, 2019²⁰¹⁹ at 9:30 am onwards. The list of such qualified & eligible applicants will be displayed on University website and notice boards on 21st Jan 2019 by 6:00 pm. Accordingly, the applicants are advised to visit the website/notice board on 21st Jan 2019 after 6:00 pm for list of applicants shortlisted for Interview.

Further, it is clarified that all the applicants are being allowed to appear in these tests without declaring them eligible. The applicants must satisfy themselves about their eligibility, before appearing in the test. The eligibility as per criteria advertised is subjected to fulfilling the requisite conditions. Please note that no TA/DA will be admissible for appearing in test or Interview.

- All Applicants as per list attached
- All Notice Boards
- Web Administrator: for uploading on University website

REGISTRAR

[Signature]
8/1/2019

(Any discrepancy may be brought to notice via email drymcaust@gmail.com)



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GOLDEN JUBILEE YEAR
(1969-2019)

List of Applicants for the post of System Analyst cum Programmer against

Advt No. 4/2018

Applicant ID	Form. No.	Name	Father's Name	Address
SA-01	7	Lokesh Singh Sisodia	Harpal Singh Sisodia	39- Kanoon Goyan Kannauj- U.P
SA-02	8	Jaikee Attri	Inder Jeet	Vill- Jalhaka, P.O- Amarpur Tehsil & Distt. Palwal- 121102
SA-03	12	Vimal Kumar	Rambabu Sharma	H.No-14,Sagar Enclave Surat Nagar,Phase-1 Daultabad Road, Gurgaon
SA-04	13	Sombir Sharma	Subhash Chander	H.No-4/244 New Basti Gali no-4, Bahadurgarh
SA-05	15	Rajat Gupta	Rohtash Kumar	H.No-8 old anaj mandi ward no 7, Nuh(Mewat)
SA-06	19	Amit kr Pandey	Trilok Nath Pandey	Sankatmochan Asharam Rama krishnapuram, Sec-6, New Delhi
SA-07	23	Ajay Sehrawat	Kartar Singh	91/4 New Colony near Satya Shyam Ghat Mandir, Palwal
SA-08	28	Vinod Kumar	Ramesh Chand	H.No 1306, Sec- 4, Gurgaon
SA-09	46	Ansul Garg	Chhotey Lal Garg	E-148, Pul Prahladpur, New Delhi
SA-10	55	Prajesh Kumari	Arvind Kumar	Shastri Farm House, Malerna Road, Ballabgarh
SA-11	59	Ravi Kant Verma	Dileep Kumar	Vill- Salempur, P.O Belaganj, Distt- Gaya, Bihar
SA-12	61	Neha Tanwar	Gajender Tanwar	H.No- 655, Sec 8, Faridabad
SA-13	63	Monika	Rati Ram	H.No 659, Dayanand Colony, Near BSNL Office, Gurugram



Details of tests & Selection Criteria for the Post of System Analyst

- **Part- I: Written test** (Qualifying Score 40%)
 - 60 MCQs of 1/4 mark each, with no negative marking
 - Duration 2 hrs

Syllabus

Data Base Management Systems

ER Diagram, data models- Relational and Object oriented databases. Data Base Design: Conceptual data base design, Normalization Primitive and Composite data types, concept of physical and logical databases, data abstraction and data independence, data aggregation and Relational Algebra. Application Development using SQL: Host Language interface, embedded SQL programming, Stored procedures and triggers and views, Constraints assertions. Internal of RDBMS: Physical data organization in sequential, indexed random and hashed files. Inverted and multi list structures, B trees, B+ trees, Query Optimization, Join algorithm. Transaction Processing, concurrency control and recovery management, Transaction model properties and state serialisability, Lock base protocols, two phase locking. Different server multi user, multi-process operating systems and requirement for client interfaces in distributed application environments.

Data Communication and Computer Networks

Computer Network Architecture, Circuit switching, Packet and Message Switching, Network Structure, Physical Layer, Data Link Layer, Framing, Retransmission algorithms, Multiple access and Aloha. CSMA/CD and Ethernet, High Speed LANs and topologies, broadcast routing and spanning trees, TCP/IP Stack, IP Networks and Internet, DNS and Firewalls, Intrusion Detection and Prevention. Transport layer and TCP/IP. Network Management and Interoperability

Software Project Management

Software Project Management Concept: The Management Spectrum, People, Product, Process & Project. Software Process & Project Matrix: Software Measurement Size Oriented Matrixes, Function Oriented Matrices. Software Project Planning: Objectives, Decomposition Techniques, Empirical Estimation Model. Risk Analysis and Management: Risk Identification, Projection, Risk Refinement, Risk Monitoring and Management, Project Scheduling & Tracking, Software Quality Assurance, Software Configuration Management,

- **Part- II: Skill test of 4 hrs duration** (Qualifying Score 40%)

Syllabus: Design and implementation of two exercises related to

- a) Data base
- b) Computer Networking

- **Selection Criteria:**

45% weight-age:	Academic Records (for marks excess of 60% at 10 th , 10+2, Graduation Level) & Experience
15% weight-age:	Written Test
20% weight-age:	Skill Test
20% weight-age:	Personal Interview