



SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY

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(An Institute of National Importance under Govt. of India)

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P&A.I/X/68/Syllabus/FCP/SCTIMST/2013

Dated:22.03.2013

NOTICE

The syllabus for written test for selection to the post of **Technical Assistant (Lab) - Biochemistry** as approved by the Director is notified for the information of all concerned.

1. Sources and solutions for pre-analytical errors in patient sample analysis
2. Hemoglobin – normal and abnormal types
3. Red cells and anemia
4. WBC count – Significance in diseases
5. ESR – Methods of measurement and significance
6. Blood smear staining methods
7. Buffers, pH, percentage solutions, molarity definition and preparation of solutions of defined molarity
8. Blood glucose assay principles, clinical significance of hyperglycemia
9. Renal and liver function test parameters – estimation and interpretation
10. Assays of serum electrolytes – methods and clinical significance
11. Blood gases assay methods and clinical interpretation
12. PT and APTT definition and measurements: Significance of INR.
13. Principles of centrifugation, calorimetry, spectro photometry, microscopy.
14. Internal and external quality control, Levy – Jennings plot, coefficient of variation
15. Urine analysis and interpretation
16. Serum electrophoresis for immunoglobulin and clinical significance
17. Enzyme – linked immune sorbent assay (ELISA), Immuno turbidimetry – Principles
18. Lipoproteins as cardiac risk factors: LDL, HDL and Lp(a) normal levels and significance of variations
19. Reference values for biological variables; methods of calibration; definition of: accuracy, precision, sensitivity and specificity.

12/3/13
ACTING DY. DIRECTOR (ADMN.)

To

Notice Board (Hospital/AMC/BMT Wing)