

Q.P.CODE:151-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – **APRIL, 2018****BIOCHEMISTRY**

Paper-IV : Clinical Biochemistry

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) What are the different types of heavy metal poisonings seen in children? What are the different methods to diagnose them?
- 2) What is POCT? Classify different POCT. Give examples of POCT devices and enumerate its application
- 3) What is TDM (Therapeutic Drug Monitoring)? What is the clinical utility of TDM?
- 4) Define sensitivity. Specificity, positive predictive value, negative predictive value and odds ratio. What are the characteristics of diagnostically accurate test?
- 5) What are different types of acid base disturbances seen in humans? How to diagnose the acid base disturbances by arterial blood gas analysis? What are the applications of anion gap, Winters formula and delta ratio?
- 6) What is calibration? What are different types of Calibrations? What is a calibration graph?
- 7) Which preservatives are used in urine collection and transport for the estimation of different analytes?
- 8) Explain the process of implementation and applications of sigma metric analysis in different phases of laboratory testing.
- 9) What is regression analysis? What are different types of regression analysis? What are its applications in laboratory medicine?
- 10) Explain in detail about evidence based laboratory medicine

- - -