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B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)/DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)

Term-End Examination

December, 2013

BAHI-013 : AUTOMATION OF LABORATORY SERVICES

Time: 3 hours Maximum Marks: 70

Note:

Attempt all questions. Follow instructions under each

question.

PART - A

Answer True or False:

1x5 = 5

- 1. (a) Systemic errors can be detected by plotting chart within 2SD values.
 - (b) Levy Jenning chart and the Gaussian Curve indicates good control over the methodology
 - (c) Internal quality control is performed by sending samples to interlaboratory at different times to moniter performance of the tests prospectively.
 - (d) Optimum Condition Variance (OCV) is the lowest variance a laboratory can get on a known value Q.C. material.
 - (e) Use of documentation in blood bank maintenance record as per S.O.P. will support Licensing authorities to penalise.

2.	Fill in the blanks.		1x5=5
	(a)	For quality control management it	
		essential to have written certified docume	ent
		as in each laboratory.	
	(b)	Internal Q.C and Q.C a	ire
		essential element of quality assessment.	
	(c)	Coefficient of Variation (CV) is a measure of variability.	ıre
	(d)	Instrument interfacing is done usi port on the instrument for t	
	7.3	data reporting.	
	(e)		are
		measures of quality assurance.	
3.	Write briefly on the following: $6x5=36$		
	(a)	Organisational management	
	(b)	NABL - Accriditation	
	(c)	Factors affecting SOP preparation in quality management.	
	(d)	Use of Levy - Jenning Chart and Gaussian curve	
	(e)	Cusum chart	
	(f)	Pre - requisites for blood bank license.	
PART - B			
	Ans	wer any three questions :	10x3=30
4.	Define quality control and quality assurance. What are parameters of check in pre and post analytical procedures of laboratory services?		

5.

2

Fill in the blanks

What are ethics of laboratory practices? Describe objectives of laboratory practices in patient care

services in relation to principles of ethics.

- Describe the role of information technology in the field of Laboratory Medicine. Illustrate the role of computer technology in Laboratory Services.
- Describe the role of technical staff in medico legal aspects of laboratory management.