What are the **5 f 0 c** tyres of proctes used in a

MEDICAL LABORATORY TECHNICIAN

Sizes boold of TS book Paper; S-1.2, object of

(Biochemistry I)

Full Marks: 40

Time: 2 hours

The figures in the margin indicate full marks for the questions

- 1. Answer the following questions in brief: $1 \times 5 = 5$
- (a) What is pH?
 be consulted to the monney of the solid states of
 - (b) What is an anticoagulant?
 - (c) Mention one example of deliquescent compound.
 - (d) What do you mean by ppm?
- (e) Give one example of laboratory apparatus used in acid-base titration.

(Turn Over)

2.	Answer the following questions (any five): $2 \times 5 = 10$		
	(a)	What are the different types of pipettes laboratory? Which pipette is most sui micro level works?	table for
	(b)	What do you mean by PLT and PT in blo How INR relates with PT?	ood test? 1+1=2
	(c)	Write the principle of centrifugation.	2
	(d)	Mention some of the advantages of burette.	f digital 2
	(e)	What is readability of a digital balance? the minimum readability of an analytical l	What is balance? 1+1=2
	(f)	State Beer's-Lambert's law. How abs and molar extinction coefficient relates?	orbance 2
	(g)	Calculate the normality of 4.9g H ₂ SO ₄ is d in 500mL of solution.	issolved 2
artition		i sampirat taminjima isug makaya, sak	
3.	Answer the following questions (any three): $5 \times 3 = 15$		
	(a)	Draw a levelled diagram of hot air of laboratory incubator. What are the advant a CO ₂ incubator? Mention one comment of incubator.	tages of
V16/10	00	(Tu	ırn Over)

- (b) Mention different components of a standard table top balance with diagram. Explain the terms accuracy and precision involved in a weighing scale.

 3+2=5
- (c) Illustrate the uses of preservatives in bio-chemistry laboratory with their specific examples. Briefly describe the method of collection of CSF and other fluids. 2+3=5
- (d) Mention the different components of a pH meter. Write the principle involved in determination of pH of a solution by a pH meter. What is a standard hydrogen electrode? 1+2+2=3
- (e) State the uses of three glass apparatus with their diagram. How a glass pipette is calibrated?

3+2=5

- 4. Answer any one of the following questions: $10 \times 1 = 10$
 - (a) (i) What is a standard solution? How they are classified? What types of standard solution can be prepared from the following chemicals:

KMnO₄, $H_2C_2O_4$, HNO₃ and Ha_2CO_4 1+2+2=5