This question paper contains 2 printed pages]

LB-117-2023

FACULTY OF SCIENCE

M.Sc. (Fourth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/New Pattern)

PHYSICS

Paper PHY-402

(Microwaves and Measurements)

(Monday, 8-5-2023)

Time: 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
 - (ii) All questions carry equal marks.
 - (iii) Figures to the right indicate full marks.
- Discuss distribution parameters in case of two conductor transmission line.
 Establish the transmission line equation.

Or

- (a) What do you mean by VSWR? Derive equation for it. 8
- (b) Define microwaves and discuss various bands in this frequency spectrum.
- Give structure of circular wave guide and explain TE and TM mode propagation in it.

P.T.O.

2

LB-117-2023