Reg. No.:						
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Question Paper Code: 1213428

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024 Third Semester Biomedical Engineering U20BM301- SENSORS AND TRANSDUCERS (Regulation 2020)

Time: Three Hours	Maximum:	100 N	Mark
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Answer ALL questions

 $PART - A \qquad (10 \times 2 = 20 \text{ Marks})$

- 1. Classify the transducers.
- 2. Compare primary and secondary standards.
- 3. Recall the advantages and disadvantages of photomultiplier tube.
- 4. Classify optical encoders based on structure and output electrical signal.
- 5. Define gauge factor.
- 6. What is the working principle of optical pyrometer?
- 7. List the advantages and disadvantages of force balance method.
- 8. What are the applications of implantable pressure transducer?
- 9. Name some applications of biosensor in agriculture.
- 10. List the uses of biosensor in environment monitoring.

