(Pages : 3) Name.....

Reg. No.....

BCA DEGREE EXAMINATION,

(CBCSS—UG)

A12 — SENSORS AND TRANSDUCERR

(Model Question Paper)

Time : Three Hours

Part A

Answer all questions. Each question carries ½ mark.

1. Define Transducers ? with example
2. List static characteristics of a sensor
3. Explain LVDT and RVDT ?
4. Application of capacitance sensors ?
5. Explain basic principle Thermistors ?
6. What is the principle of thermocouple ?
7. List application of RTD ?
8. Explain principle of Hall effect sensors ?
9. Explain the function electromagnetic flow meter ?
10. List characteristics of photo detectors ?
11. What are the commonly used photo resistive materials ?
12. Explain Bernoulli's principle ?
13. Explain the working of Rot meter ?
14. List the function of venture tube ?
15. What is sound level meter ?

Part B (Very Short Answer Type Questions)

Answer all questions.
Each question carries 2 marks.

16. *Explain resistive sensors with help of a potentiometer ?*

17. *List advantage and disadvantages of thermocouple ?*

18. *List different type of Magnetic sensors ?*

19. *What is eddy current Explain working of eddy current sensors ?*

20. *Explain working of photosensitive cell Transducers ?*

21. *With neat diagram explain the function of pressure sensors ?*

22. *What is the order of resolution of a torque type sensors ?*

23. *In what different mode P_ N junction used for radiation detection ?*

24. *What are the commonly used photo resistive materials ?*

Part B (Very Short Answer Type Questions)
Answer any 3 questions.
Each question carries 10 marks.

25. *Explain working of inductive sensor with example*

26. *Write essay about Thermistors*

27. *Describe any two level transducer with application*

28. *Explain working of dynamometer and gyroscope*