

Code: 4G372

IV B.Tech. I Semester Supplementary Examinations November 2019

Electronic Measurements and Instrumentation

(Electronics and Communication Engineering)

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) Define Accuracy and precision. Explain the difference between them with an example. 4M
- b) Explain in detail the types of Error possible in measurement process. 10M

OR

2. The Series Ohm meter uses a 50 basic movement requiring a full scale deflection current of 1mA. The internal battery voltage is 3V. The desired scale marking for half scale deflection is 2000 . Calculate (a) the values of R_1 and R_2 ; (b) the maximum value of R_2 to compensate for a 10% drop in battery voltage. 14M

UNIT-II

3. a) Explain the Sine Wave Generator. 6M
- b) Differentiate between Wave analyzer and Harmonic distortion analyzer. 8M

OR

4. Illustrate the operation of Harmonic Distortion Analyzers. 14M

UNIT-III

5. a) Discuss the CRT and its internal structure. 8M
- b) Briefly discuss the Waveform Display. 6M

OR

6. List out the different types of probes used for Oscilloscope. Explain about each of them. 14M

UNIT-IV

7. a) Explain the basic principle of Wheatstone Bridge and derive the expression for unknown resistance. 7M
- b) Explain the Kelvin bridge with neat diagram and derive the expression for unknown resistance. 7M

OR

8. a) Explain the Wein bridge and derive the expression for frequency. 7M
- b) Describe about unbalance conditions. 7M

UNIT-V

9. Explain the principle and working of Strain Gauges. 14M

OR

10. a) Define data Acquisition. Explain about the Data Acquisition System. 8M
- b) Discuss the criterion for selecting a transducer. 6M

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R-14

Code: 4G47A

IV B.Tech. I Semester Supplementary Examinations November 2019

Object Oriented Programming

(Electronics and Communication Engineering)

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) Explain the importance of *this* keyword in object oriented programming.
b) Write short notes on java buzz words .

OR

2. a) Define constructor. Explain different types of constructors with example.
b) Give a brief description about the various parameter passing techniques.

UNIT-II

3. a) What is inheritance? Explain various forms of inheritance with example.
b) Explain the use of super () method in invoking a constructor.

OR

4. a) Define interface. Explain how interfaces are implemented with example.
b) Write short notes on the concept of understanding the CLASS PATH.

UNIT-III

5. a) What is an exception? Explain the various keywords used in it.
b) Draw and explain the lifecycle of a thread.

OR

6. a) What are exception types? What happens if we don't handle an exception?
b) Differentiate between multithreading and multitasking.

UNIT-IV

7. a) What is a socket? Explain socket class in java.
b) Describe about the life cycle of an applet.

OR

8. a) Explain in detail about StringTokenizer class
b) Explain the method of passing parameter to an applet.

UNIT-V

9. a) Write about event sources and event classes.
b) Define swing. Explain MVC architecture.

OR

10. a) Give a brief description about the window and frame in java AWT.
b) Explain the use of JTable class with an example.
