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121563-C

6th Sem. / IC.

Subject : Virtual Instrumentation

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Local Variables .

b) Node .

c) Array.

d) Interfacing.

e) Multiplexing.

f) Interrupts.

g) Clusters.

h) Quantization.

i) Demodulation.

j) Windowing

Q.5 Explain various data acquisition cards.

Q.6 Explain construction and working of RS-232 interface.

Q.7 Explain application of virtual instrumentation in field of temperature control.

k) G.U.I.

l) Loop.

m) D.A.C.

n) Filtering.

o) String.

p) D.M.A.

q) Instrumentation.

r) Amplifier.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) Write a short note on G.P.I.B.

ii) What is future of V.I.?

iii) How the VI is used in pressure control?

iv) What is Palletts?

v) What is Instrument Driver?

vi) Explain different types of Data.

vii) What is Debugging?

viii) What is Graphical programming?

ix) Explain working of D.A.C.

x) What is the role of a connector?

xi) Write a short note on A.D.C.

xii) What do you mean by Menus?

xiii) What is D.I.O.?

xiv) Write a short note on U.S.B.

xv) What is for loop?

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.3 What is virtual instrumentation? Discuss its advantages and applications?

Q.4 What is lab view? Why it is used in instrumentation field?