Total No. of Questions : 10]

SEAT No. :

P3992

[Total No. of Pages : 2

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B.E. (Instrumentation and Control)

BUILDING AUTOMATION - II (Elective - III)

(2012 Pattern)

Time : 2.30 Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.***
2) ***Neat diagram must be drawn wherever necessary.***
3) ***Figures to right indicate full marks.***
4) ***Assume suitable data if necessary.***

Q1) a) What do you mean by zoning? Explain importance of zoning **[6]**

b) What are the different factors affecting sensitivity of conventional Detectors for fire alarm system? **[4]**

OR

Q2) a) What is the difference between NAC and IDC? Give one example of each. **[6]**

b) Explain the following terms in fire Alarm System **[4]**

i) Zone

ii) Circuit

iii) Notification Appliances

iv) Initiating Devices.

Q3) a) Enlist various automatic fire detectors. Explain any one. **[6]**

b) Describe addressable pull stations. **[4]**

OR

Q4) a) Explain style-4 and style-6 for SLC wiring **[6]**

b) Explain 4-wire smoke detectors. **[4]**

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Q5) a) Explain different Class of fires. Also explain fire Hydrants for each class **[8]**

b) Explain and compare wet pipe and dry pipe system. **[8]**

OR

Q6) a) What is necessity of flow switch and tamper switch in fire suppression system? **[8]**

b) Explain fire suppression systems. **[8]**

Q7) a) What is the importance of access control system? What are the components of access control system? **[10]**

b) List and discuss various credentials for access control system. **[8]**

OR

Q8) a) What is security system? Discuss importance & applications of security systems with suitable examples. **[10]**

b) Discuss advantages and disadvantages of various biometrics. **[8]**

Q9) a) Explain system architecture of CCTV system. What are terminologies for cameras? **[8]**

b) Write short note on Video Steamer. **[8]**

OR

Q10)a) Explain technologies used for perimeter intrusion detection system. **[8]**

b) Explain the importance of intrusion system along with one application. **[8]**

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