

Total No. of Questions : 10]

SEAT No. :

P3536

[Total No. of Pages : 2

[4959] - 1207

B.E. (Instrumentation & Control)

BUILDING AUTOMATION-II

(2012 Pattern) (Semester-II) (Elective-III(b))

Time : 2 1/2 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 2) *Neat diagrams must be drawn whenever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume Suitable data if necessary.*

Q1) a) What is IDC? Explain class A and class B IDC. [6]

b) Explain different stages of fire? [4]

OR

Q2) a) How the detection of fire is carried out in both conventional and addressable system? [6]

b) Define fire according to NFPA72 ? Explain fire modes. [4]

Q3) a) Discuss linear heat detector with suitable applications. [6]

b) Explain FAS power supply requirements and its designing parameters. [4]

OR

Q4) a) Discuss analog intelligent technology of FAS. [6]

b) Discuss fire signatures. [4]

P.T.O.

- Q5)** a) Explain different components of sprinkler system. [10]
b) Explain wet pipe sprinkler system. [8]

OR

- Q6)** a) Explain basics of fire suppression system. Explain fire hydrants. [10]
b) What is necessity of flow switch and tamper switch in fire suppression system. [8]

- Q7)** a) What is importance of access control system. What are the components of access control systems? [8]
b) Explain LON and Modbus protocols for access control system. [8]

OR

- Q8)** a) What are various categories of access control system . Explain benefits of access control. [8]
b) Explain biometric access control. [8]

- Q9)** a) Explain system architecture of CCTV System. What are terminology for cameras. [8]
b) List types of camera used in CCTV. Explain PTZ type in detail. [8]

OR

- Q10)** a) What is intrusion system ? Explain the importance along with one application. [8]
b) Explain DVR, DVM, NVR video management systems. [8]

