

M.E. Second Semester (Electrical (Electronics & Power) Engineering) (New-CGS)
13320 : Digital Protection of Power System : 2 EEPME 1

P. Pages : 2

Time : Three Hours



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Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.

SECTION - A

1. a) Explain Analog & Digital Multiplexer. 6
b) Explain Numerical relay with schematic. 7

OR

2. a) Explain basic Block diagram of Digital relay. 6
b) What is function of filter. Explain its types. 7
3. a) Explain time multiplier setting and plug multiplier setting in current relay. 6
b) Explain: 7
 - a) Relay Back up
 - b) Breaker Back up

OR

4. a) Draw and explain flow chart for relay coordination. 6
b) Give an estimate of relay operating time. 7
5. a) Explain various types of frequency relay. 6
b) State & explain rate of frequency decline. 7

OR

6. a) Explain Induction type cylinder frequency relay. 6
b) Explain types of fault in overhead transmission line. 7

SECTION - B

7. a) Explain problems associate with relay during compensation. 6
b) Explain: 7
 - a) Auto-reclosing
 - b) Multi shot reclosing relay

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| 8. | a) | Explain different precautions to be follow during re-closing. | 6 |
| | b) | State and explain re-closing relay & its operation. | 7 |
| 9. | a) | Explain Adaptive protection. | 7 |
| | b) | Explain protection of transmission line based upon travelling wave phenomenon. | 7 |

OR

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|-----|----|---|---|
| 10. | a) | Explain mathematical algorithm for location of fault. | 7 |
| | b) | What are recent developments in relaying principle. | 7 |
| 11. | a) | Explain Digital harmonic filtering. | 7 |
| | b) | Explain in detail Full cycle window. | 7 |

OR

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|-----|----|--|---|
| 12. | a) | State the implementation of integral LSQ fit method. | 7 |
| | b) | State and explain Fourier Algorithm with suitable example. | 7 |

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