| Dura | tion: 3l | Bhrs MGSG | [Max Marks:80] |
|--------|----------|--|------------------|
| | | | |
| | | | |
| N.B. : | (1) Qı | Question No 1 is Compulsory. | |
| | – | Attempt any three questions out of the remaining five. | |
| | | All questions carry equal marks. | |
| | | Assume suitable data, if required and state it clearly. | |
| | | | |
| 1 | A 44 a | FOLID ST. | 677 |
| 1 | | tempt any FOUR ine micro grid and state it's advantages. | [20] |
| a b | | npare centralized and de-centralized control of micro grid. | |
| C | | w and elaborate a suitable diagram of AMI in smart grid | |
| d | | ine smart grid and elaborate it's need in current situation. | |
| e | | mpare characteristics of Solar PV and Wind energy source as a rendered | ewable |
| | | rgy sources | |
| | 5 | | OF, S |
| 2 a | | mpare non-conventional sources with respect to their suitability and | d [10] |
| | | racteristics in micro grid. | 13° |
| b | | ergy storage devices play a very important role in micro grid.' Just | tify the [10] |
| | state | ement. | |
| · . | Duon | we calculate discuss of D.C. miles and alchemate it alone with | L :40 |
| 3 a | | w schematic diagram of D.C. microgrid and elaborate it along with antages, disadvantages, and limitations. | h its [10] |
| b | | re importance of islanding in case of grid connected micro grid. Also | so give the [10] |
| (B), N | | per sequence of operation for successful islanding. | ogive the [10] |
| | Page | | |
| 4 a | Drav | w a block diagram on hierarchical control and elaborate its working | ıg [10] |
| Sb | Wha | at is black start? Does micro grid is helpful for it? Justify your ans | wer. [10] |
| | | | |
| >5 a | | te inverter control modes and elaborate any one in detail. | [10] |
| b | Drav | w and elaborate a functional block diagram of smart meter | [10] |
| 6 a | Enlis | ist various communication methods used for smart grid and elaborate | ate any one [10] |
| | | letail. | |
| b | Desc | scribe the 'self-healing' characteristic of smart grid | [10] |
| | | | |
