Program: BE Electrical Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: EEDL06022 and Course Name: Micro Grid

Time: 1-hour Date:6/10/2020 Max. Marks: 50

Note to the students: - All the Questions are compulsory and carry equal marks.

Q1.	AMI provides	
Option A:	One-way communication	
Option B:	One to One communication	
Option C:	Two-way Communication	
Option D:	One to many Communication	
Q2.	Micro grid communication infrastructure consists layers.	
Option A:	3	
Option B:	2	
Option C:	4	
Option D:	1	
Q3.	islanding detection technique uses extensive communication	
	technologies like SCADA, PLC to monitor circuit breaker status	
Option A:	communication based	
Option B:	Passive	
Option C:	Hybrid	
Option D:	Active	
Q4.	The external control of ac output voltage can be achieved in an inverter by	
Option A:	connecting a cyclo-converter	
Option B:	connecting an ac voltage controller between the dc source and inverter	
Option C:	connecting an ac voltage controller between the output of the inverter and the	
	load	
Option D:	connecting an ac voltage controller between the load and the dc source	
Q5.	Full form of RTU is given by	
Option A:	Remote transformer unit	
Option B:	Ring transmission unit	
Option C:	Remote Terminal	
Option D:	Unit Remote Transfer unit	
06	which of the following statement in isolated made is correct	
Q6.	which of the following statement in isolated mode is correct	
Option A:	all the DGs operate in PQ mode	

Option B:	all the DGs operate in VF mode	
Option C:	Some DGs in PQ mode and some DGs in VF mode	
Option D:	All DGs in VSI mode	
0,000.00		
Q7.	Typical signal levels exchanged in CHIL applications is ?	
Option A:	±9V	
Option B:	±12V	
Option C:	±10V	
Option D:	±8V	
Q8.	It is a combination of active and passive detection techniques	
Option A:	Passive islanding detection technique	
Option B:	Hybrid islanding detection technique	
Option C:	communication based islanding detection technique	
Option D:	Active islanding detection technique	
Q9.	The maximum power in a synchronous machine is obtained when the load angle	
	is	
Option A:	120 degree	
Option B:	0 degree	
Option C:	60 degree	
Option D:	90 degree	
	D	
Q10.	a 15MW micro grid capacity can be categorized under	
Option A:	corporate micro grid	
Option B:	feeder area micro grid	
Option C:	substation area micro grid	
Option D:	simple micro grid	
Q11.	Rate of change of frequency (ROCOF) function is used for	
Option A:	fast load shedding	
Option B:	to detect loss of grid	
Option C:	to detect frequency	
Option D:	to speed up operation time in over- and under frequency situations	
Q12.	Micro-Grid has property of self	
Option A:	protection	
Option B:	healing	
Option C:	controlling	
Option D:	demand management	
Q13.	Which of the following is the key control variable in the DC Microgrid?	
Option A:	voltage	
Option B:	reactive power	
Option C:	frequency	
Option D:	phase angle	

is the zone of real and reactive power mismatches if islanding occurs the		
corresponding relay fails to identify the islanding condition		
Non detection zone		
detection zone		
CRZ zone		
error detection zone		
By interconnecting two isolated DC grids one may not achieve this		
Local energy security		
Effective RES utilization		
Less reliability		
more reliability		
Consider two alternators are running in parallel now if the excitation of the one		
of the alternators is changed then it will		
change power factor		
reduce speed		
change load demand		
change frequency		
Charles detection to be a Coation and acceptant deal		
islanding detection technique is Continuously monitor electrical		
quantities or parameters derived from electrical quantities to identify islanding detection		
Active		
Passive		
Hybrid		
communication based		
communication based		
Dual converter handle during load		
very high temperature		
only circulating current		
no current		
load current		
Battery capacity is measured in terms of		
amps		
volts		
watts		
ampere hour		
The advantage of smart grid is		
Improves power reliability		
Improves power reliability increase peak power demand		

Option D:	Reduce operational efficiency	
Q21.	In a single phase VSI square wave feeds pure inductive load. The wave form of	
QZI.	the load current is	
Option A:	sinusoidal	
Option B:	rectangular	
Option C:	trapezoidal	
Option D:	triangular	
option b.	trangalar .	
Q22.	Which of the fallowing statement with respect to grid feeding converter is correct?	
Option A:	They can operate independently in isolated mode.	
Option B:	They cannot operate parallel with other grid feeding converters	
Option C:	They can participate in the control of microgrid AC voltage and frequency	
Option D:	They can participate in the control of microgrid DC voltage	
Q23.	Which of the following communication network is commonly used in SCA	
Option A:	HAN	
Option B:	FAN	
Option C:	IAN	
Option D:	WAN	
Q24.	"IEEE Guide for Monitoring, Information	
	Exchange, and Control of Distributed Resources Interconnected with Electric	
	Power Systems is a part of "	
Option A:	IEEE Standard 1547.1	
Option B:	IEEE Standard 1547.3	
Option C:	IEEE Standard 1547.4	
Option D:	IEEE Standard 1547.2	
Q25.	Ring DC microgrid is an example of	
Option A:	single bus topology	
Option B:	reconfigurable topology	
Option C:	two bus topologies	
Option D:	multi bus topology	

Program: BE Electrical Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: EEDL06022 and Course Name: Micro Grid

Time: 1-hour Date:6/10/2020

Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C C
Q2.	A
Q3.	A
Q4	С
Q5	С
Q6	С
Q7	С
Q8.	В
Q9.	D
Q10.	В
Q11.	С
Q12.	В
Q13.	В
Q14.	А
Q15.	С
Q16.	А

Q17.	D
Q18.	В
Q19.	D
Q20.	А
Q21.	D
Q22.	С
Q23.	D
Q24.	В
Q25.	В