Program: BE Electrical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: EEE804 Course Name: Smart Grid Technology (SGT)

Time: 1 hour Max. Marks: 50

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

Q1.	CDM is defined in Protocol.		
Option A:	IEEE (IE8975)		
Option B:	TCP/IP (IP 1070)		
Option C:	Kyoto (IPCC 2007)		
Option D:	AI (2017 CX)		
Q2.	In Gujrat,is an ongoing smart grid project In India.		
Option A:	Kutch		
Option B:	Porbandar		
Option C:	Daman		
Option D:	Dholera SIR		
Q3.	The CDM allows industrialized countries to buy and to invest in		
	emission reductions where it is cheapest globally.		
Option A:	CER units		
Option B:	PER units		
Option C:	OER units		
Option D:	PEV units		
Q4.	CER is		
Option A:	Certified Emission Reduction units		
Option B:	Credit emission reduced units		
Option C:	Carbon Emission Regeneration unit		
Option D:	Certified emission regeneration Unit		
Q5.	In PLC type smart meter, the measurement and data from the smart meter can		
	be transmitted acrossfrom the meter to a collection point.		
Option A:	the wireless communication channels		
Option B:	the telephone lines		
Option C:	the utility power lines		
Option D:	Television broadcast Line		
Q6.	Customers have access to historical and real time data on Energy costs and		
	potentially Carbon Emission data using		

Option A:	Geographic Information System		
Option B:	Islanding		
Option C:	Outage management system		
Option D:	Smart Meters		
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Q7.	Electrical appliances can be controlled automatically using		
Option A:	Geographic Information System		
Option B:	Islanding		
Option C:	Outage management system		
Option D:	Smart Meters		
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Q8.	The enables customers can reduce the cost by shifting energy		
ζο.	consumption to cheaper off-peak tariff periods.		
Option A:	Smart meter		
Option B:	Outage management system		
Option C:	Geographic Information System		
Option D:	present conventional meters		
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Q9.	FDCC is		
Option A:	Frequency Detection and Correction Centre		
Option B:	Fault Delay Control Centre		
Option C:	Feeder Distribution Control Centre		
Option D:	Fading Detection and Correction Centre		
Q10.	Which statement is NOT true for GIS in context with Smart Grid?		
Option A:	It can capture and analyses spatial and geographic data.		
Option B:	It is a computer-based tools that allow the user to create interactive		
	queries (user-created searches), store and edit spatial and non-spatial data,		
Option C:	analyses spatial information output, and visually share the results of these		
	operations by presenting them as maps.		
Option D:	Provide information about consumption of energy via communication channel.		
Q11.	The IED used in monitoring performs following functions		
Option A:	Circuit-breaker condition monitoring, Trip circuit supervision, Internal self-		
	supervision, Event recording		
Option B:	measurements of current, Three Phase Voltages, Frequency, Active Power,		
	Reactive power.		
Option C:	Controls Reclosers, Circuit breakers, sensors, voltage regulators		
Option D:	communicate via RS 232 interface with substations		
Q12.	IED's are able to communicate directly to system.		
Option A:	SCADA		
Option B:	GIS		
Option C:	PMU		
Option D:	FAS		
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Q13.	Bioenergy is the energy derived from		
Option A:	organic matter such as corn, wheat, soybeans, wood		
Option B:	coal		
Option C:	Nuclear fuel		
Option D:	potential energy of water		
	3,		
Q14.	Biopower is obtained from a process called		
Option A:	certain chemical processes		
Option B:	pyrolysis		
Option C:	Gasification		
Option D:	nuclear fusion		
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Q15.	Pumped Hydro energy storages		
Option A:	does not require to pump water from downhill reservoir to uphill		
Option B:	are high head hydro power plants		
Option C:	stores energy in batteries		
Option D:	water being pumped from a lower reservoir uphill then allowing it to flow		
	downhill to through turbines		
Q16.	In Compressed Air Energy Storage (CAES)		
Option A:	air under atmospheric pressure expands through a combustion turbine to create		
	electricity		
Option B:	compressed air is released from storage, it expands through a combustion		
	turbine to create electricity		
Option C:	uncompressed air is released from storage, it expands through a combustion		
	turbine to create electricity		
Option D:	any air pressure does the function of producing electricity		
Q17.	Transients are characterized by		
Option A:	frequencies ranging from tens of hertz		
Option B:	with no frequency deviations		
Option C:	frequencies ranging only in MHz		
Option D:	frequencies ranging from tens to hundreds of kilohertz or even megahertz		
Q18.	Transients may be eliminated by		
Option A:	installing lightning arrestor systems with separate grounds		
Option B:	speed governors		
Option C:	AVRs		
Option D:	power system stabilizers		
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Q19.	Removal of bulk loads, switching on a large capacitor bank cause		
Option A:	voltage sag		
Option B:	voltage swell		
Option C:	no change in voltage level		
Option D:	no change in any network variables		

Q20.	Voltage sags and swells lasting more than minutes are classified as	
	under- and over-voltage conditions, respectively	
Option A:	2	
Option B:	1	
Option C:	3	
Option D:	1.5	
Q21.	Facets of the cyber security include:	
Option A:	voltage control	
Option B:	fault recovery	
Option C:	Event logging, aggregation, and correlation	
Option D:	load shedding	
Q22.	Communication system in a SG must satisfy	
Option A:	Quality of service of data	
Option B:	low end reliability	
Option C:	power factor control	
Option D:	demand side management	
Q23.	The Data Rate of WIMAX Communication Technology is	
Option A:	Up to 75 MBPS	
Option B:	Up to 25 MBPS	
Option C:	Up to 10 Mbps	
Option D:	Up to 50 MBPS	
024	The Date Date of Timber Communication Technology is	
Q24.	The Data Rate of ZigBee Communication Technology is	
Option A:	Up to 100 Kbps	
Option B:	Up to 500 Kbps	
Option C: Option D:	Up to 250 Kbps Up to 50 Kbps	
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Q25.	Recloser Controller and voltage regulators are	
Option A:	LEDs	
Option B:	MCDs	
Option C:	IEDs	
Option D:	FASs	

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

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