Program: BE Electrical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: EEC801

Course Name: Design Management and Auditing of Electrical Systems (DMAES)

Time: 1 hour Max. Marks: 50

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

Q1.	The primary industry standard used in electrical design is		
Option A:	IESNA		
Option B:	EASA		
Option C:	NEC		
Option D:	NEMA		
Q2.	Distribution system in a large consumer premises has?		
Option A:	Single feeder		
Option B:	Two feeders		
Option C:	Three feeders		
Option D:	Floor wise feeders		
Q3.	A transformer is installed in a consumer distribution system is generally having		
	primary voltage of		
Option A:	400 KV		
Option B:	132 KV		
Option C:	66 KV		
Option D:	11 KV		
Q4.	The effect of diversity and load factor on transformer rating is?		
Option A:	Reduced rating (Optimized)		
Option B:	Increased rating		
Option C:	Load unbalancing		
Option D:	Load balancing		
Q5.	Distribution transformer are designed for maximum efficiency at?		
Option A:	50 to 60% load		
Option B:	20to 30% load		
Option C:	100% load		
Option D:	Any load		

Q6. Option A:	Which of the following circuit breakers has the lowest operating voltage? SF6 circuit breaker		
-	I DI D DI DOIL DI CUICI		
Option B:	Air Circuit breaker		
Option C:	Air blast		
Option D:	Minimum oil circuit breaker		
option 2.	William on circuit or care		
Q7.	Distribution of power is technically difficult if the feeder length is beyond		
Option A:	35 to 45 km		
Option B:	500 km		
Option C:	300 km		
Option D:	800 km		
Option 2.	occ kill		
Q8.	Following is not the type of configuration of UPS system		
Option A:	online double conversion		
Option B:	line-interactive		
Option C:	Standby		
Option D:	Back to Back Conversion		
Spacin D.	Such to Such conversion		
Q9.	Which of the following prevents moisture entry into the cable?		
Option A:	Armor		
Option B:	bedding		
Option C:	conductor surface		
Option D:	lead sheath		
Q10.	Illumination level required for precision work is around		
Option A:	50 lm/ sq-m		
Option B:	100 lm/ sq-m		
Option C:	200 lm/ sq-m		
Option D:	500 lm/sq-m		
	oss mysq m		
Q11.	What is the function of an Isolator?		
Option A:	Break Short circuit current		
Option B:	Making under fault conditions		
Option C:	Breaking the circuit under no load condition		
Option D:	Operate when lightning surge strikes		
•			
Q12.	MCCB used for the protection of three phase delta connected motor should		
	have		
Option A:	Two pole		
Option B:	Triple pole		
Option C:	Four pole		
Option D:	Triple pole with neutral link		
- 1			
Q13.	If the supply frequency to the transformer is decreases, the iron loss will		

Option A:	Not change		
Option B:	Decrease		
Option C:	Increase		
Option D:	Cannot be determined		
'			
Q14.	When the plant is adopting automatic power factor controller (APFC), it results into		
Option A:	reduced active power drawn from grid		
Option B:	reduced the reactive power drawn from grid		
Option C:	reduced the voltage of the plant		
Option D:	increased the load current of the plant		
Q15.	Under no change in the efficiency scenario A CUSUM graph follows a random fluctuation trend and oscillates around.		
Option A:	100		
Option B:	100%		
Option C:	50		
Option D:	0		
Q16.	Following should not the characteristic of Energy audit instruments		
Option A:	Easy to operate		
Option B:	Cheaper		
Option C:	Data Recording		
Option D:	Bulky and heavy		
орион в	Danky and nearly		
Q17.	"The judicious and effective use of energy to maximize profits and enhance		
	competitive positions". This can be the definition of:		
Option A:	Energy conservation		
Option B:	Energy policy		
Option C:	Energy management		
Option D:	Energy Audit		
Option 5.	Energy room		
Q18.	An energy policy does not include		
Option A:	Targeting energy consumption reduction		
Option B:	Time period for reduction		
Option C:	Declaration of top management commitment		
Option D:	Future production projection		
Option D.	Tatale production projection		
Q19.	Which instrument is used to monitor O2, CO in flue gas?		
Option A:	Combustion analyzer		
Option B:	Power analyzer		
Option C:			
Option C:	Pyrometer Fyrite		
οριίση υ.	Tyrice		
Q20.	Which among the following lamps is not an energy efficient lamp?		
Option A:	Incandescent Lamp		
option A.	meanacacent tump		

Option B:	LED lamp		
Option C:	T5 Tube Light		
Option D:	Compact Fluorescent Lamp		
Q21.	The HVAC system is designed with a capacity based on		
Option A:	System performance with low life-cycle cost		
Option B:	median conditions under which they are expected to operate		
Option C:	Physical characteristic of building		
Option D:	Estimated maximum heating and cooling loads		
Q22.	Electronic variable frequency drive (VFD) connected to motors:		
Option A:	provide variable speed with high efficiency		
Option B:	induces eddy-current in the secondary member of the clutch mechanism		
Option C:	is not suitable for variable torque load		
Option D:	does not provide variable speed and has low-efficiency		
Q23.	What's the main reason why LEDs are more energy efficient compared to other		
	lighting options?		
Option A:	The process they use to convert electricity into light is more effective		
Option B:	They are made of higher quality materials		
Option C:	They use alternating current instead of direct current		
Option D:	They absorb less heat		
Q24.	In case of EEM motors hysteresis losses are reduced in comparison to standard		
	motor		
Option A:	By using large rotor bars of copper conductor		
Option B:	by using high grade silicon steel		
Option C:	using thicker laminations		
Option D:	using low loss fan design		
Q25.	What the word 'BMS' stands for		
Option A:	Building Management System		
Option B:	Brain Monitoring System		
Option C:	Best Monitoring System		
Option D:	Big Management System		

Program: BE Electrical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: EEC801

Course Name: Design Management and Auditing of Electrical Systems (DMAES)

Time: 1 hour Max. Marks: 50

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

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