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VALUE ADDED COURSES

2019-2020

Department of Electrical & Electronics Engineering 19EE01-Modern Optimization Techniques for Electric Power Systems

MARK SHEET

SI. No	Register Number	Student Name	MARKS
1	17TE3101	GUNALAN.M	96

Engineering College or * RAAA

PRINCIPAL

ASAMURTHI, M.E., Ph.C. Dr. S. SEENU

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RAAK College of Engineering & Technology
No.1, Muthupillai Palayam Road,

Sulthanpet Post, Puducherry - 605 110





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VALUE ADDED COURSES

	1, 2, 22, 21, 21, 21, 21, 21, 21, 21, 21		
		2019-2020	
	Department of Electr	ical and Electronics Engine	ering
	19EE01-Modern Optimizat	ion Techniques for Electric	Power System
		NA	AME:
		CLASS:	
		DATE:	
1. Single	line diagram of which of the fo	llowing power system is poss	ible?
a) Power	system with LG fault	b) Balanced power	er system
c) Power	r system with LL fault	d) Power system	with LLG fault
Answer:	ь		
2. A pow	ver system will have greater flex	ibility of operation if they have	ve
a) Only l	Base load plants operating in con	mbination	
b) Vario	us types of power plants operation	ng in combination	
c) Only	Peak load plants operating in co	mbination	
d) Only	thermal power plants operating	in combination	

- 3. Single line diagram does not represents:
- a) Ratings of machines
- c) Delta connection of transformer winding winding

Answer: b.

Answer: b



- b) Neutral wire of transmission lines
- d) Star connection of transformer

Dr. S. SEENUVASAMURTHI, M.E., Ph.C. PRINCIPAL .

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4. In impedance diagram of	lifferent power system elements are represented by symbols.
a) False	b) True
Answer: a	
5. In combined operation of	of several power plants the reserve capacity requirement is reduced.
a) False	b) True
Answer: b	
6. For a given power systemangle of	em, its zero and maximum regulation will occur at the impedance
a) 45	b) 60
c) 35	d) 50
Answer: a	
	n has 160 PQ bus. For achieving a load flow solution by N-R in imum number of simultaneous equation to be solved is
a) 359	b) 334
c) 357	d) 345
Answer: a	
8. A 50 bus power system be	Ybus has 80% sparsity. The total number of transmission lines will
a) 225	b) 563
c) 345	d) 456
Answer: a	Dr. S. SEENUVASAMURTHI, M.E., Ph.E. PRINCIPAL PRINCIPAL SAAK Callege of Engineering & Technology
	RAAK College of Engineering & Technology No.1, Muthupillai Palayam Road,

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9. The given graph is the depiction of	on a large power system network.
a) Three phase motor getting short	b) L-G fault
c) Ratings of machines	d) Any of the mentioned
Answer: b	
10. A protection system engineer is plant achieve this by	ning to provide the complete protection, he can
a) a two phase fault relays and three earth	n fault relays
b) a two phase fault relays and two earth	fault relays
c) two phase fault relays and three earth f	fault relays
d) three phase fault relays and two earth	fault relays
Answer: d.	
11. A power system has a maximum load capacity of plant is if the plant cap	of 15 MW. Annual load factor is 50%. The reserve eacity factor is 40%.
a) 3.75 MW	b) 7.75 MW
c) 46.75 MW	d) 8.75 MW
Answer: a	
12. The area under the load curve represe	ents
a) maximum demand	b) load factor
c) the average load on power system	d) number of units generated
Answer: d	
13. If all the sequence voltages at the fau	It point in a power system are equal, then fault is
	- Amm
a) LLG fault	eineering b) Line to Eine fSDENUVASAMURTHI, ME

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c) Three phase to ground fault	d) LG fault
Answer: a	
14. If the power system network is at Vs∠δ and receive the impedance of TL as (R+j5)Ω. For maximum posappropriate value of resistance R should be	
a) 1.732	b) 3.45
c) 5.2	d) 0.33
Answer: a	
15. Voltage regulation in the power system is	
a) dip in voltage at sending end	b) rise in voltage at sending end
c) rise in voltage at receiving end	d) dip in voltage at receiving end
Answer: c	
16. Which of the following is not neglected during impedance diagram?	formation of reactance diagram from
a) Shunt component of Transformers	b) Static loads
c) Resistance of various power system components	d) Reactance of alternators
Answer: a	
17. Which of the following is not a requirement for plant?	site selection of hydroelectric power
a) Large catchment area	b) Rocky land
c) Sedimentation	d) Availability of water
Answer: c	Timm
Engineering	Dr. S. SEENUVASAMURTHI, M.E., Ph.C.



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18. Which of the following is no	t an advantage of hydroelectric power plant?	
a) no fuel requirement	b) continuous power source	
c) low running cost	d) no standby losses	
Answer: b		
19. Which of the following element water hammer phenomenon?	ent of hydroelectric power plant prevents the penstock from	
a) Surge Tank	b) Draft tubes	
c) Spillway	d) Valves and Gates	
Answer: a		
20. Which of the following part of	of thermal power plant causes maximum energy losses?	
a) Alternator b) Ash and unburnt carbon		
) Boiler d) Condenser		
Answer: d		
21. Which of the following are the plants?	ne most widely used condensers in modern thermal power	
a) Low level counter flow type je	et condenserb) Parallel flow type jet condenser	
c) High level counter flow type jo	et condenser d) Surface condensers	
Answer: d		
22. Which of the following is mo	ost suitable fuel for thermal power plant?	
a) Bituminous coal	b) Lignite coal	
c) Anthracite coal	d) Peat coal	
Answer: a	Dr. S. SEENUVASAMURTHI, M.E., Ph.C PRINCIPAL RAAK College of Engineering & Technology No.1, Muthupillai Palayam Road, Sulthanpet Post,	
	Puducherry - 605 110	



Answer: b

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23. Which of the following is m firing?	ost advantageous and most widely method of solid fuel	
a) Spreader stoker firing	b) Pulverised fuel firing	
c) Underfeed firing	d) Stoker firing	
Answer: b		
24. Which of the following methwater?	nod is used in large modern thermal power plants to heat feed	
a) Open type heatre is used	b) Surface type heater is used	
c) Close type heater is used heat it feed water	d) Steam is directly taken from main turbine and used to	
Answer: d		
25. Which of the following polls	utant causes acid rain?	
a) NO ₂	b) SO ₂	
c) CO ₂ d) NO		

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VALUE ADDED COURSES

2019-2020

Department of Electricaland Electronics Engineering

19EE01-Modern Optimization Techniques for Electric Power System

	NAME	: MAHA LAKSHMI. M
	CLASS:	TI / EEE
		2018/2019
1. Single line diagram of which of the following		
a) Power system with LG fault	b) Balanced power sy	
c) Power system with LL fault	d) Power system with	
 A power system will have greater flexibility of a) Only Base load plants operating in combination of the property of power plants operating in combination of the property of the power plants operating in combination of the power plan	b) Neutral wire of tra	transformerwinding
a) False	b) True	
5. In combined operation of several power plan	nts the reserve capacity req	uirement is reduced.
a) False	b) True	
6. For a given power system, its zero and maximagle of	mum regulation will occur	at the impedance
a) 45 b)	60	
) 50	
7. A 200 bus power system has 160 PQ bus. For polar coordinates, the minimum number of sim		

c) 357

b) 334

d) 345

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capacity of plant is if the plan	nt capacity factor is 40%
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a) LLG fault	b) Line to Line fault
c) Three phase to ground fault	d) LG fault
	5) 20 Iuun
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The say to tage at receiving end	d) dip in voltage at receiving end
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(8)	Dr. S. SEENUVASAMURTHI, M.E., Ph.E.
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16. Which of the following is not neglected during impedance diagram?	formation of reactance diagram from
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c) Anthracite coal	
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0) 11-4-6-16:	d) Stoker firing
	d) Stoker Hillig
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- 24. Which of the following method is used in large modern thermal power plants to heat feed water?
- a) Open type heatre is used
- c) Close type heater is used
- b) Surface type hater is used
- d) Steam is directly taken from main turbine and used to eat it feed water
- 25. Which of the following pollutant causes acid rain?
- a) NO₂

c) CO₂

b)50;

d) NO



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Certificate of Completion

2019-2020

Year........ Department.. R.R. has successfully Completed the Value added course.

SCORE:9.6.....

COURSE MODERN OPTIMIZATION TECHNIQUE

POR ELECTRIC POWER SYSTEM

HOD

COURSE

DURATION: 31.81.19.6.14/8/19.

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VALUE ADDED COURSES

2019-2020

Department of Electrical & Electronics Engineering

19EE02-Vehicular Electric Power Systems

MARK SHEET

Sl. No	Register Number	Student Name	MARKS
1	18TE0852	MAHALAKSHMI.M	96
2	18TC1207	KAVITHA.U	88

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VALUE ADDED COURSES 2019-2020

Department of Electrical and Electronics Engineering 19EE02-Vehicular Electric Power System

N	NAME:		

CLASS:

DATE:

- 1. What is an electric drive?
- a) A machine that converts electrical energy into kinetic energy
- b) A machine that converts mechanical energy into electrical energy
- c) A machine that converts electrical energy into mechanical energy
- d) A machine that converts kinetic energy into electrical energy

Answer: c

- 2. Which of the following is used to build a electric drive?
- a) Source

b) Motor

c) Control unit

d) All of the mentioned

Answer: d

- 3. Which of the following is/are components of an electric drive?
- a) Control unit and Power Modulator

b) Electric Motor and Control System

c) Input Command

d) Sensing Device and Electric Motor

Answer: b

4. Which is a function of electric drive Pr. S. SEENUVAS MURTHI, M.E., Ph.C. PRINCIPAL

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4. Which of the following is a function of e	electric drive?
a) Transport energy from the storage system	n to the wheels
b) Transport energy from the control system	n to the wheels
c) Transport fuel from the electric motor to	the wheels
d) Transport fuel from the storage system to	the wheels
Answer: a	
5. What are electric drives?	
a) Engines of 2-wheelers	b) Laptops
c) Robotics	d) Both a & c
Answer: d	
6. Which of the following exhibits linearly r	rising load torque characteristics?
a) Rolling Mills	b) Fan load
c) Separately excited dc generator connected	
Answer: c	do the resistive load "d) Elevators
7. Type-A chopper is used for obtaining whi	ch type of mode?
a) Reverse motoring mode	b) Motoring mode
c) Reverse regenerative braking mode	d) Regenerative braking mode

8. Which of the following converter circuit operations will be unstable for a large duty cycle ratio?

a) Boost converter

b) Boost converter and Buck-Boost converter

c) Buck converter

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Answer: b

Answer: b

d) Buck-Boost converter

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9. Which of the following devices application?	should be used as a switch for high power and high voltage
a) TRIAC	b) Thyristor
c) GTO	d) MOSFET
Answer: b	
10. Which of the following motor	can be referred as a universal motor?
a) Permanent magnet motor	b) DC shunt motor
c) DC series motor	d) DC compound motor
Answer: c	
11. What is the unit of the apparent	or complex power?
a) VA	b) ohm
c) Volt	d) VAR
Answer: a	
12. Which of the following device i	s NOT suitable for parallel operation?
a) BJT	b) MOSFET
c) TRIAC	d) IGBT
Answer: a	
13. The frame of an induction motor	r is made of
a) Silicon steel	b) Aluminum
c) Stainless steel	d) Cast iron
Answer: d	d) Cast iron Dr. S. SEENUVASAMURTHI, M.E., Ph.C. PRINCIPAL
Answer: d	RAAK College of Engineering & Technology No.1, Muthupillai Palayam Road,
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14. Which of the following are use generators?	d in preventing the hunting phenomenon in synchronous
a) Distributed winding	b) Damper bars and short pitch chords
c) Short pitch chords	d) Damper bars
Answer: d	
15. Which of the following core has	s linear characteristics?
a) CRGO core	b) Iron core
c) Air core	d) Steel core
Answer: c	
16. Which one of the following met regulation of the alternator?	hods would give a lower than the actual value of
a) EMF method	b) ASA method
c) ZPF method	d) MMF method
Answer: d	
17. The most suitable control-motor	application is
a) AC one-phase induction motor	b) DC shunt motor
c) AC shunt motor	d) DC separately motor
Answer: d	
18. What is the unit of the distance?	
a) atm/m	b) Volt pr s sp.
a) atm/m c) m	d) m/s RAAK College of Engineers
c) m	No.1, Muthunillain & Technology
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Answer: c

19. In the rotor voltage injection method main voltage then speed will	d, when an external voltage source is in phase with the
a) Decrease	b) First increases then decrease
c) Increase	d) Remain unchanged
Answer: c	
20. Which of the following is the unit of	f displacement?
a) m/s	b) m
c) atm/m	d) Volt
Answer: a	
21. Which of the following is the correct	et abbreviation of SCIM?
a) Solid cage induction motor	b) Square cage induction motor
c) Squirrel cage inverter motor	d) Squirrel cage induction motor
Answer: d	
22. Which braking method is the best m	ethod for obtaining high braking torque?
a) Plugging	b) Regenerative braking
c) Rheostatic braking	d) Dynamic braking
Answer: a	
23. Which of the following is the correct	et abbreviation of IFOC?
a) Insight field oriented control	b) Indirect field oriented control
c) Inverter field oriented control	d) Isolated field oriented control
Answer: b	Dr. S. SEENUVASAMURTHI, M.E., Ph.C.
Answer: b	RAAK College of Engineering & Technology No.1, Muthupillai Palayam Road,
TOOILE OF THE STATE OF THE STAT	Sulthanpet Post, Puducherry - 605 110



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24. When 30 A current flows into the positive terminal of current source 8 V. Calculate the power delivered by the source.

a) -240 W

b) 356 W

c) -234 W

d) 243 W

Answer: a

25. Which of the following is the correct abbreviation of NENO?

a) Neither even nor original

b) Neither even nor odd

c) Neither even nor orthogonal

d) Neither energy nor odd

Answer: b



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VALU	JE ADDED COURSES
	2019-2020
Department of Ele	ctricaland Electronics Engineering
	icular Electric Power System
	가는 하는 사람들이 보면 하는 것을 하는 것이 없는 것이 하는 것이 없는 것이다.
	NAME: MAHALAKSHMI. A
	CLASS: II /EEE
	DATE: 20/08/2019
1. What is an electric drive?	
a) A machine that converts electrical en	nergy into kinetic energy
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A machine that converts electrical er	nergy into mechanical energy
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2 Which of the faller in the state of the st	91./
2. Which of the following is used to bua) Source	
c) Control unit	b) Motor
	All of the mentioned
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7 Type-A chapper is used for alterity	
7. Type-A chopper is used for obtaining a) Reverse motoring mode	
Webserse regenerative braking mode	d) Motoring mode
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No.1, Muthupillai Palayam Road,
Sulthanpet Post,
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8. Which of the following conversatio?	erter circuit operations will be unstable for a large duty cycle
a) Boost converter	
c) Buck converter	Boost converter and Buck-Boost converter
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	d) 10B1
13. The frame of an induction mo	tor is made of
a) Silicon steel	b) Aluminum
c) Stainless steel	에 보고 있는 없는 데이터를 보고 있었다. 선생님은 전상으로 이 선생님은 전상으로 보고 있다면 보고 있다면 보고 있다면 보고 있다면 되었다. 그는 사람이 없는 것이 없습니
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c) AC shift motor	d) DC separately in South ge of Engineering & Technology
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18. What is the unit of the distance?	
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- wingo men speed will	thod, when an external voltage source is in phase with the
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21. Which of the following is the corn	root obbassissis organization
a) Solid cage induction motor	tect appreviation of SCIM?
c) Squirrel cage inverter motor	b) Square cage induction motor
s) squarer eage inverter motor	A) Squirrel cage induction motor
22. Which braking method is the best	method for obtaining high braking torque?
# Plugging	b) Regenerative braking
c) Rheostatic braking	Dynamic braking
23. Which of the following is the corr	ant abbreviation CIPO on
a) Insight field oriented control	ect abbreviation of IFOC?
c) Inverter field oriented control	b) Indirect field oriented control
noid offented control	d) Isolated field oriented control
24. When 30 A current flows into the	positive terminal of current source 8 V. Calculate the
power derivered by the source.	
a)-240 W	b) 356 W
c) -234 W	d) 243 W
25. Which of the following is the corre	ect abbreviation of NENO2
a) Neither even nor original	b) Neither even nor odd
c) Neither even nor orthogonal	
	d) Neither energy nor odd



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Certificate of Completion

2019-2020

Year........ Department... R.R.R... has successfully Completed the Value added course.

COURSE

TITLE: NEHICHAR ELECTRIC. ROWER, SYGEN



HOD



DURATION: 3/8/19 to 1/8/19.

COURSE

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