Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Renewable Energy Course Code - DECE604

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3.	Enter Full Student Code *
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6.	Enter Course Code *

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8.

Mark only one oval.
Diploma in Pharmacy
Bachelor of Pharmacy
B.TECH.(CSE)
B.TECH.(ECE)
BCA
B.SC.(CS)
B.SC.(BT)
B.SC.(ANCS)
B.SC.(HN)
B.Sc.(MM)
B.A.(MW)
ВВА
B.COM
B.A.(JMC)
BBA(HM)
BBA(LLB)
B.OPTOMETRY
B.SC.(MB)
B.SC.(MLT)
B.SC.(MRIT)
B.SC.(PA)
LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIPCE

9.

<u>DIP.ME</u>
PGDHM
MBA
M.SC.(BT)
M.TECH(CSE)
LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1.Which of the following are renewable energy resource?
Mark only one oval.
Solar
Wind
Geothermal
All of above

10.	2. Which of the area can often displaces conventional fuel by renwable energy?
	Mark only one oval.
	Space heating
	Transportation
	Electricity generation
	All of above
11.	3.Photovoltaic cell converts solar energy into
	Mark only one oval.
	Heat energy
	Electric energy
	Mechanical energy
	Chemical energy
12.	4.Which is the largest amount of installed grid interactive renewable power
	capacity in India?
	Mark only one oval.
	Wind power
	Solar power
	Biomass power
	Small Hydro power

13.	5.What is the main source of wind?
	Mark only one oval.
	Uneven land
	Sun
	Seasons
14.	5.Wind speed suitable to operate wind turbines is
	Mark only one oval.
	5 - 25 m/s
	10 - 35 m/s
	20 - 45 m/s
	30 - 55 m/s
15.	7.When solar radiation falls on earth surface, the temperature of
	Mark only one oval.
	Land mass raises faster than water
	Land mass raises slower than water
	Land mass and water raises uniformly
	Land mass raises but of water remains at fixed level

16.	8.Maximum wind energy available is proportional to
	Mark only one oval.
	Air density
	(Wind velocity)3
	(Rotor diameter)2
	All of above
17.	9.An anemometer is an instrument used for measurement of
.,.	
	Mark only one oval.
	Solar radiation
	Wind speed
	Temperature gradients
	Swept area
18.	10.Solar PV systems are
	Mark only one oval.
	Connected to the power grid
	Used to sell power to the grid
	Stand alone source of electricity
	All of above

1	9.	11.Which of the following area is preferred for solar power plants?
		Mark only one oval.
		Coastal areas Hot arid areas Mountain areas High rainfall areas
2	0.	12.Photo voltaic cell converts Mark only one oval.
		Chemical energy to electrical energy Solar radiation into electrical energy Solar radiation into thermal energy Thermal energy into electrical energy
2	1.	13.Solar cells are made of Mark only one oval. Aluminium Germanium Silicon Cadmium

22.	14.The efficiency of solar cells is about
	Mark only one oval.
	25%
	15%
	40%
	60%
23.	15.Voltage of solar cells is
	Mark only one oval.
	0.5 to 1 V
	1 to 2 V
	2 to 3 V
	4 to 5 V
24.	16.Wind energy can be used to
	Mark only one oval.
	generate electricity
	operate flour mills
	draw underground water
	all of the above

25.	17.1 ne wind speed is measured using an instrument called
	Mark only one oval.
	hydrometer
	Manometer
	anemometer
	wind vane
26.	18.Surface layer is the air layer considered from the height of local obstruction to a height of about 50m
	Mark only one oval.
	50m
	100m
	150m
	200m
27.	19.Wind energy is harnessed as energy with the help of windmill or turbine.
	Mark only one oval.
	mechanical
	solar
	electrical
	heat

28.	20.In which region winds are stronger and constant?
	Mark only one oval.
	deserts
	offshore
	low altitudes sites
	all of above
29.	21.Favourable winds for small Scale application exists
	Mark only one oval.
	everywhere on the earth's surface
	on 75%of the earth's surface
	on 25% of the earth's surface
	on 50% of the earth's surface
30.	22 force is responsible for forcing the global winds towards westerly direction.
	Mark only one oval.
	Coriolis
	Gravitational
	Centripetal
	Centrifugal

31.	23.The wind intensity can be described by
	Mark only one oval.
	reynolds number
	mach number
	beaufort number
	froude number
32.	24. How much is the energy available in the winds over the earth surface is estimated to be?
	Mark only one oval.
	2.9 X 120 MW
	1.6 X 107 MW
	1 MW
	5MW
33.	25. How much wind power does India hold?
	Mark only one oval.
	20,000 MW
	12,000 MW
	140,000 MW
	5000 MW

34.	26.EPF stand for
	Mark only one oval.
	energy pattern factor
	energy pattern fraction
	efficiency pattern factor
	none of the above
35.	27.A rotor installed in a fixed orientation with the swept area perpendicular to the pre dominate wind direction is called
	Mark only one oval.
	nacelle
	yaw fixed machines
	blades
	anemometer
36.	28.Which type of generator are made use in wind turbines?
	Mark only one oval.
	Recreational generators
	Synchronous generator
	Asynchronous generator
	Alternator

37.	29.How much ideal efficiency should practical turbine have?
	Mark only one oval.
	10 - 12% 18 - 25% 80 - 90% 50 - 70%
38.	
	Mark only one oval.
	0 degree
	180 degree
	comparable
	beyond 16 degree
39.	31.A wind turbine designed to come into operation at a minimum wind speed is called
	Mark only one oval.
	cut in velocity
	cut out velocity
	windward
	upwind

40.	32.For the same rotor diameter, as the wind speed increases, total power developed
	Mark only one oval.
	decreases
	increases
	remains constant
	may increase or decreases, but depend on wind speed
41.	33.For satellite the source of energy is
	Mark only one oval.
	Cryogenic storage
	Battery
	Solar cell
	Any of the above
42.	34.Reflecting mirrors used for exploiting solar energy are called
	Mark only one oval.
	Mantle
	Ponds
	Diffusers
	Heliostats

43.	35.A pyranometer is used for mesurement of
	Mark only one oval.
	Direct radiation only
	Diffuse radiation only
	Direct as well as diffuse radiation
	All of the above
44.	36.A Solar cell is an electrical device that converts the energy of light directly into
	electricity by the
	Mark only one oval.
	Photovoltaic effect
	Chemical effect
	Atmospheric effect
	Physical effect
45.	37.The world's first 100% solar powered airport located at
	Mark only one oval.
	Cochin, Kerala
	Bengaluru, Karnataka
	Chennai, Tamil Nadu
	Mumbai, Maharashtra

46.	38.The power from the sun intercepted by the earth is approximately
	Mark only one oval.
	1.8 x 108 MW
	1.8 x 1011 MW
	1.8 x 1014 MW
	1.8 x 1017 MW
47.	39.The following is an indirect method of Solar energy utilization
	Mark only one oval.
	Wind energy
	Biomass energy
	Wave energy
	All of the above
48.	40.The efficiency of various types of collectors with temperature
	Mark only one oval.
	increases, decreasing
	decreases, increasing
	remains same, increasing
	depends upon type of collector

49.	41.Maximum efficiency is obtained in
	Mark only one oval.
	Flat plate collector
	Evacuated tube collector
	merge sort
	Paraboloid dish collector
50.	42.The value of Solar Constant is
	Mark anly and aval
	Mark only one oval.
	1347 W/m2
	1357 W/m2
	1367 W/m2
	1377 W/m2
51.	43.Solar radiation flux is usually measured with the help of a
	Mark only one oval.
	Anemometer
	Pyranometer
	Sunshine recorder
	All of the above

52.	44. The angle made by the plane surface with the horizontal is known as
	Mark only one oval.
	Latitude Slope merge sortSurface azimuth angle Declination
53.	45. The global radiation reaching a horizontal surface on the earth is given by Mark only one oval. Hourly beam radiation + Hourly diffuse radiation Hourly beam radiation - Hourly diffuse radiation Hourly beam radiation / Hourly diffuse radiation Hourly diffuse radiation
54.	46.The following factor(s) affects the distribution of wind energy Mark only one oval. Mountain chains The hills, trees, and buildings Frictional effect of the surface All of the above

55.	47.Uneven heating occurs on land surface and water bodies are due to
	Mark only one oval.
	Air Currents
	Solar radiation
	Lunar eclipse
	None of the above
56.	48.Wind energy is harnessed as energy with the help of windmill or turbine.
	Mark only one oval.
	Mechanical
	Solar
	Electrical
	Heat
57.	49.The following is (are) the classification of winds
	Mark only one oval.
	Global wind
	Local wind
	Both (A) and (B)
	None of the above

58.	50.How much wind power does India hold?
	Mark only one oval.
	20,000 MW 12,000 MW 140,000 MW
	5000 MW
59.	51.What type of energy is wind energy?
	Mark only one oval.
	Renewable energy
	Non-renewable energy
	Conventional energy
	Commercial energy
60.	52.What is used to turn wind energy into electrical energy?
	Mark only one oval.
	Turbine
	Generators
	Yaw motor
	Blades

61.	53.At what range of speed is the electricity from the wind turbine is generated?
	Mark only one oval.
	100 - 125 mph
	450 - 650 mph
	250 – 450 mph
	30-35 mph
62.	54.which of the following is NOT the type of Hybrid Vehicle?
02.	
	Mark only one oval.
	Plug-in Hybrid
	Parallel Hybrid
	Natural Gas For Vehicles
	Series Hybrid
63.	55.What type of Motor Used in Electric Vehicles?
	Mark only one oval.
	DC Motor
	AC Motor
	AC and DC both
	None of the above

64.	56.Biomass is used in the production of
	Mark only one oval.
	fibers
	chemicals
	transportation fuels
	biochemicals
65.	57.In biomethane, the percentage of carbon dioxide is
	Mark only one oval.
	55-60
	35-45
	30-40
	32-43
66.	58.Bioethanol is mixed with to prepare transport fuel
	Mark only one oval.
	oil
	petrol
	kerosene
	diesel

67.	59.Bioethanol is denatured alcohol, also referred to as
	Mark only one oval.
	methylene
	ethylene
	ethylene glycol
	methylated spirit
68.	60.The aerobic digestion of sewage is utilized in the production of
	Mark only one oval.
	metal articles
	biofuels
	biomass
	synthetic fuels
69.	61.Which of the following material is used in solar cells?
	Mark only one oval.
	Barium
	Silicon
	Silver
	Selenium

70.	62.The efficiency of a solar cell may be in the range
	Mark only one oval.
	2 to 5%
	10 to 15%
	30 to 40%
	70 to 80%
71.	63. Which of the following constitutes the major load for an automobile battery?
	Mark only one oval.
	Brake light
	Self-starter
	Parking lights
	Spark plugs
	Spank plags
72.	64.Batteries are charged by
	Mark only one oval.
	Rectifiers
	Engine generator sets
	Motor generator sets
	Any of the above

73.	65.Battery container should be acid resistance therefore it is made up of
	Mark only one oval.
	Glass
	Plastic
	Wood
	All of the above
74.	66.In a fuel cell cathode is of
	Mark only one oval.
	Oxygen
	Ammonia
	Hydrogen
	Carbon monoxide
75.	67.What is the maximum possible output of a solar array?
	Mark only one oval.
	300 W/m2
	100 W/m2
	250 W/m2
	500 W/m2

76.	68.The current density of a photo voltaic cell ranges from
	Mark only one oval.
	10 - 20 mA/cm2
	40 − 50 mA/cm2
	20 - 40 mA/cm2
	60 − 100 mA/cm2
77.	69.What are used to turn wind energy into electrical energy?
	Mark only one oval.
	Turbine
	Generators
	Yaw motor
	Blades
78.	70.What type of energy is wind energy?
	Mark only one oval.
	Renewable energy
	Non-renewable energy
	Conventional energy
	Commercial energy

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