

SAMPLE QUESTION PAPER

Branch:

Semester :

Roll No.:

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B.TECH
THEORY EXAMINATION EVEN SEM. 2019-20
RENEWABLE ENERGY RESOURCES

Time: 2 Hours

Total Marks: 70

Note: Attempt all questions. The question paper contains 35 MCQ type questions. Each question carries equal marks. Mark the correct answer.

Q no.	Question
1	Which of the following is a disadvantage of renewable energy a. High pollution b. Available only in few places c. High running cost d. Unreliable supply
2	A Solar cell is an electrical device that converts the energy of light directly into electricity by the a. Photovoltaic effect b. Chemical effect c. Atmospheric effect d. Physical effect
3	In hydroelectric power, what is necessary for the production of power throughout the year a. Dams filled with water b. High amount of air c. High intense sunlight d. Nuclear power
4	The main composition of biogas is a. Methane b. Carbon dioxide c. Nitrogen d. Hydrogen
5	Which Ministry is mainly responsible for research and development in renewable energy sources such as wind power, small hydro, biogas and solar power? a. Human Resource Development b. Agriculture and Farmers Welfare c. Ministry of New and Renewable Energy d. Health and Family Welfare
6	Which among the following have a large amount of installed grid interactive renewable power capacity in India a. Wind power b. Solar power c. Biomass power d. Small Hydro power
7	The world's first 100% solar powered airport located at a. Cochin, Kerala b. Bengaluru, Karnataka c. Chennai, Tamil Nadu d. Mumbai, Maharashtra

8	<p>Which of the following is not under the Ministry of New and Renewable Energy</p> <ol style="list-style-type: none"> Wind energy Solar energy Tidal energy Large hydro power energy
9	<p>. Where is the largest Wind Farm located in India</p> <ol style="list-style-type: none"> Jaisalmer Wind Park, Rajasthan Muppandal Wind Farm, Tamil Nadu Vaspet Wind Farm, Maharashtra Chakala Wind Farm, Maharashtra
10	<p>Which Indian enterprise has the Motto “ENERGY FOREVER”</p> <ol style="list-style-type: none"> Indian Renewable Energy Development Agency Indian Non-Renewable Energy Development Indian Agricultural Development Indian Biotechnology Development
11	<p>Which of the following is (are) renewable resource(s)</p> <ol style="list-style-type: none"> wind tides geothermal heat all of the above
12	<p>Which of the following country generate all their electricity using renewable energy</p> <ol style="list-style-type: none"> Iceland England USA China
13	<p>Renewable energy often displaces conventional fuel in which of the following area</p> <ol style="list-style-type: none"> space heating transportation electricity generation all of the above
14	<p>Which of the following is used as fuel for transportation</p> <ol style="list-style-type: none"> ethanol aldehyde ketone all of the above
15	<p>Biodiesel is produced from oils or fats using</p> <ol style="list-style-type: none"> fermentation transesterification distillation none of the above
16	<p>Photovoltaic cell converts solar energy into</p> <ol style="list-style-type: none"> heat energy electric energy mechanical energy chemical energy

17	In which of the following region winds are stronger and constant a. deserts b. offshore c. low altitudes sites d. all of the above
18	Following country met more than 40% of its electricity demand from wind energy a. Denmark b. Portugal c. Ireland d. Spain
19	Concentrated solar power (CSP) systems use _____ to focus a large area of sunlight into a small beam a. lenses b. mirrors c. tracking systems d. all of the above
20	The difference, in temperature between the core of the planet and its surface, is known as a. geothermal coefficient b. geothermal gradient c. geothermal constant d. none of the above
21	Direct Solar energy is used for a. Water heating b. Distillation c. Drying d. All of the above
22	The following is indirect method of Solar energy utilization a. Wind energy b. Biomass energy c. Wave energy d. All of the above
23	The hour angle is equivalent to a. 10° per hour b. 15° per hour c. 20° per hour d. 25° per hour
24	The following is (are) laws of black body radiation. a. Plank's law b. Stefan-Boltzmann law c. both (A) and (B) d. None of the above
25	Beam radiations are measured with a. Anemometer b. Pyrheliometer c. Sunshine recorder d. All of the above
26	The function of a solar collector is to convert..... a. Solar Energy into Electricity b. Solar Energy radiation c. Solar Energy thermal energy d. Solar Energy mechanical energy

27	<p>Most of the solar radiation received on earth surface lies within the range of.....</p> <ul style="list-style-type: none"> a. 0.2 to 0.4 microns b. 0.38 to 0.78 microns c. 0 to 0.38 microns d. 0.5 to 0.8 microns
28	<p>For satellite the source of energy is.....</p> <ul style="list-style-type: none"> a. Acrogenic storage b. Battery c. Solar cell a. Any of the above
29	<p>Reflecting mirrors used for exploiting solar energy are called.....</p> <ul style="list-style-type: none"> a. Mantle b. Ponds c. Diffusers d. Heliostats
30	<p>What does Heating and cooling of the atmosphere generates</p> <ul style="list-style-type: none"> a. Thermo line circulation b. Radiation currents c. Convection currents d. Conduction currents e.
31	<p>How much wind power does India hold</p> <ul style="list-style-type: none"> a. 20,000 MW b. 12,000 MW c. 140,000 MW d. 5000 MW
32	<p>What is the main source for the formation of wind</p> <ul style="list-style-type: none"> a. Uneven land b. Sun c. Vegetation d. Seasons
33	<p>. Which country created wind mills</p> <ul style="list-style-type: none"> a. Egypt b. Mongolia c. Iran d. Japan
34	<p>What happens when the land near the earth's equator is heated?</p> <ul style="list-style-type: none"> a. All the oceans gets heated up b. Small wind currents are formed c. Rise in tides d. Large atmospheric winds are created
35	<p>What type of energy is wind energy?</p> <ul style="list-style-type: none"> a. Renewable energy b. Non-renewable energy c. Conventional energy d. Commercial energy