

COVERS
RECENT
CHANGES
2018

PAST QUESTIONS + ANSWERS + GUIDE



NDDC SCHOLARSHIP

PAST QUESTIONS PACK

RENEWABLE ENERGY

FOR MSC. & PHD

TEST STREAMS

1). Which one of the following energy uses windmills for mechanical power?

Solar energy

Biomass and biofuel

Hydropower

Wind power

2). Which one of the following energy uses solar thermal electricity and solar heating?

Solar energy

Biomass and biofuel

Hydropower

All of the above

3). _____ are the renewable energy resources

Solar

Wave

Wind

All of the above

4). _____ are the non-renewable energy resources

Nuclear energy

Fossil fuels

Both a and b

None of the above

5). What are the advantages of solar power?

Sunlight is free

Doesn't produce the greenhouse effect

Both a and b

None of the above

6). What is the source of solar energy?

Wind

Waves

Sunlight

All of the above

7). Which one of the following resources is sustainable?

Renewable resources

Non-renewable resources

Both a and b

None of the above

8). What are the advantages of biomass?

Renewable

Versatile

Both a and b

None of the above

9). What is the source of tidal energy?

Movement of seawater

Movement of tide

Sunlight

Wind

10). The hydropower uses _____

Irrigation

Watermills

Domestic lifts

All of the above

11). What are the advantages of non-renewable energy resources?

Affordable

Abundant

Cost-effective

All of the above

12). What is the source of wind energy?

Wind

Waves

Sunlight

All of the above

13). Which one of the following resources is an environmental friend?

Renewable resources

Non-renewable resources

Both a and b

None of the above

14). _____ resources are recyclable

Renewable resources

Non-renewable resources

Both a and b

None of the above

15). Which one of the following resources has more durability?

Renewable resources

Non-renewable resources

Both a and b

None of the above

16). The power density of gas is _____

200-2,000 W/m²

4-5 W/m²

4-7 W/m²

4-10 W/m²

17). The renewable energy resources has _____

Low carbon emission

High carbon emission

Very high carbon emission

Doesn't have carbon emission

18). What are the advantages of wind energy?

Renewable and free
Operating life is long
Not too expensive
All of the above

19). The renewable energy resources are _____

Pollution-free
Has high maintenance cost
Both a and b
None of the above

20). The fossil fuels are _____

Non-renewable resources
Easy to get and easy to transport
Burning produces smog
All of the above

21). Which one of the following energy resources produces radioactive waste?

Solar
Nuclear
Wind
All of the above

22). The wind and water energy resources are _____

Renewable
Doesn't produce air pollution

Both a and b

None of the above

23). What is the source of wave energy?

Movement of seawater

Movement of tide

Sunlight

Wind

24). What are the advantages of hydro energy?

Cheap to operate

Renewable

Not intermittent

All of the above

25). The non-renewable energy resources has _____

High carbon emission

Low

Very low

Doesn't have carbon emission

Renewable Energy Important MCQ's with

s

26). Which one of the following energy resources produces air pollution?

Solar

Wind

Water

None of the above

27). The biomass energy resources requires _____

Large area of farmland

Produces smoke

Both a and b

None of the above

28). What is the source of hydropower?

Flowing power

Wind

Sunlight

All of the above

29). What are the advantages of renewable energy?

Easily available

Easily generated

Low maintenance cost

All of the above

30). The power density of coal is _____

200-2,000 W/m²

100 to 1,000 W/m²

4-7 W/m²

0.5 to 0.6 W/m²

31). _____ sources of energy is also called as exhaustible sources of energy

Renewable resources

Non-renewable resources

Both a and b

None of the above

32). What is the source of biomass energy?

Wind

Sunlight

Animal waste

None of the above

33). _____ sources of energy is also called as inexhaustible sources of energy

Renewable resources

Non-renewable resources

Both a and b

None of the above

34). _____ energy is a primary source

Wind

Hydrogen

Both a and b

None of the above

35). The renewable sources are _____

Dilute

Unreliable

Both a and b

None of the above

36). The acid rain PH level is between _____

1-2

2-3

3-4

None of the above

37). Which one of the following damages the ozone layer?

CFCS

Aerosols

Freons

All of the above

38). The non-renewable energy resources are _____

Not pollution-free

Not environment friendly

Cost is high

All of the above

39). Which one of the following is not a primary source?

Hydrogen

Crude oil

Wind

All of the above

40). What is the unit of energy yield ratio?

Mole

Ohm

Dimensionless

None of the above

41). _____ are the type of energy resources based on origin

Fossil fuels, solar, nuclear

Wind, ocean wave, ocean thermal

Biomass, tidal, geothermal, hydro energy

All of the above

42). _____ are the type of energy resources based on industries

Coal

Gasoline

Both a and b

None of the above

43). _____ are the examples of commercial energy

Electricity

Coal, natural gas

Oil, lignite

All of the above

44). The power density of geothermal heat renewable energy source is _____

0.1KW/m²

0.00006KW/m²

1KW/m²

10KW/m²

45). What are the effects of acid rain?

Health problems

Decay of building materials

Killing of wildlife

All of the above

46). What is the standard form of LNG?

Liquefied Natural Gas

Liquefied Nuclear Gas

Liquefied Natural or Nuclear Gas

None of the above

47). The power density of solar energy is _____

0 to 1KW/m²

1 to 10KW/m²

10 to 15KW/m²

20 to 30KW/m²

48). The unit of one langley is equal to _____

1 cal/cm².day

10 cal/cm².day

20 cal/cm².day

30 cal/cm².day

49). The solar power is expressed in _____

KW/m²

W/m²

KW/m² or W/m²

None of the above

50). _____ are the examples of non-commercial energy

Firewood

Threshing

Crushing sugarcane

All of the above

Renewable Energy MCQs for Interviews

51). What is the standard form of PAHs?

Polycyclic Aromatic Hydrocarbons

Polyethylene Aromatic Hydrocarbons

Polystyrene Aromatic Hydrocarbons

None of the above

52). The energy storage are of _____ types

One

Two

Three

Four

53). What is the standard form of STE?

Solar Thermal Energy

Sun Thermal Energy

Solar Temporary Energy

None of the above

54). What is the standard form of CSP?

Concentrated Solar Power

Concentrated Sun Power

Common Solar Thermal

None of the above

55). The solar collectors are categorized into _____

One

Two

Three

Four

56). What are the advantages of flat plate collectors?

Requires less maintenance

No tracking of sun

Low water temperature is achieved

All of the above