Online Assessment (Even Sem/Part-I/Part-II Special Examinations of Intermediate semester 2019 - 2020

Course Name - Power Plant Engineering
Course Code - DEE405

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- ( ) MCA
- ( ) M.SC.(CS)

◯ M.SC.(ANCS)

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◯ MBA

◯ M.SC.(BT)

◯ M.TECH(CSE)

◯ LLM

◯ M.A.(JMC)

◯ M.A.(ENG)

◯ M.SC.(MATH)

◯ M.SC.(MB)

Answer all the questions. Each question carry one mark.

9.   1. A steam power station requires space

Mark only one oval.

◯ Equal to diesel power station

◯ More than diesel power station

◯ None of the above

◯ less than diesel power station

10.   2. The major heat loss in a steam power station occurs in ......

Mark only one oval.

◯ Heat chember

◯ Penstock

◯ Spillways

◯ Condenser Steam power plant

11.   3. The thermal efficiency of a steam power station is ____.

Mark only one oval.

     ◯ 28%

     ◯ 38%

     ◯ 40%

     ◯ 45%

12.   4. Which type of insulators is used in guy wires?

Mark only one oval.

     ◯ Stay insulators

     ◯ Shackle insulators

     ◯ Pin type

     ◯ Strain type

13.   5. Location of the surge tank in a hydro-electric station is near to the........

Mark only one oval.

     ◯ Tail race

     ◯ Turbine

     ◯ Reservoir

     ◯ None of these

14.   6. The height of chimney in a steam Corner of power plant is governed by

Mark only one oval.

○ Control of pollution

○ The draught to be produced

○ Flue gases quantity

○ Corner of power plant

15.   7. Hydroelectric power stations are generally located in

Mark only one oval.

○ plane area

○ hilly area

○ cold area

○ warm area

16.   8. Load due to one tonne air conditioner is nearly

Mark only one oval.

○ 100W

○ 200 to 500 W

○ 1 kW to 2 kW

○ 5 kW to 10 kW

17.   9. What does cooling and Heating of the atmosphere generates?

Mark only one oval.

◯ Thermo line circulation

◯ Radiation currents

◯ Convection currents

◯ Conduction currents

18.   10. A gas turbine basically work on

Mark only one oval.

◯ Carnot cycle.

◯ Rankin cycle.

◯ Brayton cycle.

◯ Dual cycle.

19.   11. Most of the solar radiation received on earth surface lies within the range of........

Mark only one oval.

◯ 0.2 to 0.4 microns

◯ 0.38 to 0.78 microns

◯ 0 to 0.38 microns

◯ 0.5 to 0.8 microns

20.   12. Tidal energy development needs

Mark only one oval.

◯ Huge capacity and long construction time

◯ Huge capacity and low construction time

◯ Low capacity and long construction time

◯ Low capacity and low construction time

21.   13. The output of solar cell is of the order of........

Mark only one oval.

◯ 1 W

◯ 5 W

◯ 10 W

◯ 20 W

22.   14. What are pyrheliometers?

Mark only one oval.

◯ Instruments measures beam radiations

◯ Diffuse radiations

◯ Direct radiations only

◯ None of these

23.   15. Photo-voltaic cell or solar cell converts _____

Mark only one oval.

- ( ) Solar radiation into kinetic energy
- ( ) None of these
- ( ) Solar radiation into thermal energy
- ( ) Thermal energy into electricity

24.   16. A load curve is a plot of

Mark only one oval.

- ( ) Load versus generation capacity
- ( ) Load versus current
- ( ) Load versus time
- ( ) Load versus cost of power

25.   17. Demand factor is the

Mark only one oval.

- ( ) Maximum Demand / Average Demand
- ( ) Maximum Demand / Connected Load
- ( ) Average Demand / Maximum Demand
- ( ) Connected Load / Maximum Demand

26.   18. Which is most common source of energy from which electricity is produced?

Mark only one oval.

◯ Hydroelectricity

◯ Wind energy

◯ Coal

◯ Solar energy

27.   19. The load of a consumer is generally measured in terms of

Mark only one oval.

◯ Volts

◯ Amperes

◯ Ampere hour

◯ kW

28.   20. What is meant by semi fixed charges?

Mark only one oval.

◯ It is the cost which is independent of maximum demands and units

◯ independent of units generated

◯ It is the cost which depends upon the maximum demand but it is

◯ None of these

29.   21. The harmful emissions such as sulphur are removed from gas before it is discharged to the atmosphere through which instrument?

Mark only one oval.

◯ Duct

◯ Mufflers

◯ Stark

◯ All of these

30.   22. In a system, if the base load is the same as the maximum demand, the load factor will be

Mark only one oval.

◯ 1

◯ Zero

◯ Infinity

◯ 1%

31.   23. What is the salvage value of the plant?

Mark only one oval.

◯ Is always positive

◯ Is zero

◯ Is always negative

◯ May be any of these

32.   24. For a nuclear plant, what is its useful life?

Mark only one oval.

○ 10 years.

○ 30 years

○ 100 years

○ 60 years

33.   25. With respect to the load center which location is suitable for Establishment of nuclear power plant?

Mark only one oval.

○ Load center

○ Near load center but at reasonable distance

○ Far away from load center

○ Near chemical industries

34.   26. The output of the solar cell is of the order

Mark only one oval.

○ 0.5 W

○ 1.0 W

○ 5.0 W

○ 10.25 W

35.   27. What is fixed charges?

Mark only one oval.

- ◯ Cost of investment irrespective of energy generated.
- ◯ Operating cost of the fuel along with cost of investment plant
- ◯ Operating cost only
- ◯ None of these

36.   28. Load factor during a period is

Mark only one oval.

- ◯ Average Load / Installed Capacity
- ◯ Average Load / Maximum Load
- ◯ Maximum Load / Average Load
- ◯ Maximum Load / Installed Capacity

37.   29. What is the modern trend in electric power generation?

Mark only one oval.

- ◯ To have a large number of small size thermal plants located at different places
- ◯ To have large size thermal plants near load centre.
- ◯ To have large size thermal plants located near coal fields
- ◯ None of these

38.   30. Why is load shedding done?

Mark only one oval.

◯ Reducing peak demand on the system

◯ Repairing of machines

◯ Power factor improvement

◯ Efficient operation of equipment

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