

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

Course Name: Power Plant Engineering

Course Code -DEE405

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- M.SC.(ANCS)
- M.SC.(MM)
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Answer all the questions. Each question carry one mark.

9. 1.1.A steam power station requires space.....

Mark only one oval.

- Flue gases quantity
- The draught to be produced
- Control of pollution
- Corner of power plant

10. 2.The height of chimney in a staem power plant is governed by.

Mark only one oval.

- Flue gases quantity
- The draught to be produced
- Greater than 50 %
- Corner of power plant

11. 3.The major heat loss in a steam power station occurs in

Mark only one oval.

- Economizer
- Spillways
- Condenser
- None of the above

12. 4.Which of the following station is least efficient.

Mark only one oval.

- Nuclear power plant
- Diesel power station
- Thermal power station
- None of the above

13. 5.Which element of the hydroelectric power plant prevents the penstock from the water hammer phenomenon?

Mark only one oval.

- Valves and Gates
- Draft tubes
- Spillway
- Surge Tank

14. 6.Penstock in a hydroelectric power plant is

Mark only one oval.

- a pipe connected to runner outlet
- nozzle that release high pressure water on turbine blades
- a conduit connecting forebay to scroll case of turbine
- a pipe connecting surge tank to dam

15. 7.The annual depreciation of a hydro power plant is about...

Mark only one oval.

- 0.5% to 1.5%
- 10% to 15%
- 15% to 20%
- 20% to 25%

16. 8. Running cost of a hydro-electric power plant is.

Mark only one oval.

- Equal to running cost of a steam power plant
- Less than running cost of a steam power plant
- More than running cost of a steam power plant
- None of the above

17. 9. Pelton wheel turbine is used for minimum of the following heads

Mark only one oval.

- 40 m
- 120 m
- 150 m
- 180 m or above

18. 10. Gross head of a hydro power station is.....

Mark only one oval.

- The difference of water level between the level in the storage and tail race
- The height of the water level in the river where the storage is provided
- The height of the water level in the river where the tail race is provided
- None of the above

19. 11.Reaction turbines are employed for:

Mark only one oval.

- Low heads
- Medium heads
- Both of these
- None of these

20. 12.What type of hydropower plant does not use a dam:

Mark only one oval.

- Impoundment
- Run of river
- Pumped storage
- all of the above

21. 13.When was National Hydroelectric Power Corporation set up?

Mark only one oval.

- 1897
- 1902
- 1975
- 1954

22. 14. In hydroelectric power plants.

Mark only one oval.

- operating cost is the low and the initial cost is high
- operating cost is high and initial cost is low
- both operating costs as well initial costs are high
- both operating cost, as well as initial cost, are low

23. 15. The largest size of the hydroelectric unit in India is.

Mark only one oval.

- 350 MW
- 500 MW
- 196 MW
- 1960 MW

24. 16. The efficiency of a nuclear power plant in comparison to a conventional thermal power plant is

Mark only one oval.

- same
- more
- maybe less or more depending on size
- unpredictable

25. 17.Amongst the following, the fissionable materials are

Mark only one oval.

- U233andPu239
- U23iandPu233
- U235andPu235
- U238andPu239

26. 18.A nuclear unit becoming critical means

Mark only one oval.

- it is generating power to rated capacity
- it is capable of generating much more than rated capacity
- there is danger of nuclear spread
- chain reaction that causes automatic splitting of the fuel nuclei has been established

27. 19.How much coal is required to generate energy equivalent to the energy generated by 1 kg of uranium?

Mark only one oval.

- 30000 tonnes of high-grade coal
- 300 tonnes of high-grade coal
- 10000 tonnes of high-grade coal
- 3000 tonnes of high-grade coal

28. 20.Nuclear fuel in reactor lasts for _____

Mark only one oval.

- more than 5 months
- few weeks
- few days
- more than 5 years

29. 21.In the economics of nuclear power plant taxes and insurance, charges are taken as _____

Mark only one oval.

- operating cost
- maintenance cost
- capital cost
- fixed cost

30. 22.Which of the following are not taken as operation and maintenance cost in economics of nuclear power plant?

Mark only one oval.

- Taxes and insurance
- Salaries and wages of staff
- Cost of waste disposal
- Cost of processing materials

31. 23.What is the overall efficiency of nuclear power plant?

Mark only one oval.

- Option 1
- 20 to 25%
- 30 to 40 %
- 50 to 70 %

32. 24.With respect to the load centre which location is suitable for stablishment of nuclear power plant?

Mark only one oval.

- Load centre
- Near load centre but at reasonable distance
- Far away from load centre
- Near chemical industries

33. 25.Which nuclear fuel is usually used in thermal nuclear reactor to create fission?

Mark only one oval.

- U234
- U235
- U236
- U237

34. 26. Which part's function is to reduce the energy of fast neutrons to thermal neutrons in nuclear power plants?

Mark only one oval.

- Moderator
- Coolant circulator
- Control rods
- Shielding

35. 27. What makes the best moderators in nuclear power plant?

Mark only one oval.

- Material with low atomic number
- Materials with low atomic mass
- Materials with high atomic number
- Materials with high mass number

36. 28. What is used in nuclear reactor as a cooling method/device?

Mark only one oval.

- Coolant
- Water jackets
- Air cooler
- Air vents

37. 29. Which of the following part in a nuclear reactor minimizes the neutron leakage?

Mark only one oval.

- Shield
- Control rods
- Reflector
- Moderator

38. 30. Which reactor produces only heat?

Mark only one oval.

- Burner reactor
- Breeder reactor
- Thermal reactor
- Intermediate reactor

39. 31. In a 2 stroke engine, the operation cycle are completed in how many strokes and revolution?

Mark only one oval.

- 4 strokes and 2 revolutions
- 2 stroke and 2 revolutions
- 2 strokes and 1 revolution
- 4 stroke and 4 revolutions

40. 32.The speed of the diesel engine may vary from

Mark only one oval.

- 0 – 100 rpm
- 200 – 1000 rpm
- 500 -5000 rpm.
- 1000 – 3000 rpm

41. 33.What is the ranging capability of the diesel plant?

Mark only one oval.

- 50 – 750 kW
- 100 – 1175 kW
- 75 – 3750 kW
- 150 – 4575 kW

42. 34.It is very much necessary to treat the makeup water to remove the scale forming the impurities Which treatment is used?

Mark only one oval.

- Zeolite softener
- Lime or lime soda treatment
- Both Zeolite softener and Lime or lime soda treatment
- None of the following

43. 35. Which among the following instruments are provided on the exhaust line to reduce the pressure?

Mark only one oval.

- Ducts
- Muffler
- Strainers.
- Purifiers.

44. 36. The lubrication cost in a diesel power plant is

Mark only one oval.

- High
- Low
- Moderate
- Very low

45. 37. Maximum temperature developed in a diesel engine is in the range of

Mark only one oval.

- 2000 - 2500 °C
- 500 - 1000 °C
- 1500 - 2000 °C
- 1000 - 1500 °C

46. 38. Apart from the skin effect the phenomena which cause/s the non uniform distribution of the current is _____

Mark only one oval.

- Proximity effect
- Faraday's effect
- Ferranti effect
- All of the mentioned

47. 39. Heating value of diesel is around?

Mark only one oval.

- 4000 kcal/kg
- 10000 kcal/kg
- 15000 kcal/kg
- 20000 kcal/kg

48. 40. The temperature of the cooling water leaving the diesel engine should not exceed.

Mark only one oval.

- 25 °C
- 40 °C
- 85 °C
- 70 °C

49. 41.A module in a solar panel refers to

Mark only one oval.

- Series arrangement of solar cells.
- The parallel arrangement of solar cells.
- Series and parallel arrangement of solar cells.
- None of the above

50. 42.Solar cells are made of

Mark only one oval.

- silicon
- germanium
- silver
- aluminium.

51. 43.The voltage of a single solar cell is

Mark only one oval.

- 0.5 V
- 1 V
- 1.1 V
- 5 W

52. 44.The source of energy for satellite is

Mark only one oval.

- battery
- solar cell
- cryogenic storage
- any of the above.

53. 45.For a transmission line, the distributed parameters is/are _____

Mark only one oval.

- velocity of stream
- (velocity of stream)²
- (velocity of stream)³
- 1/ (velocity of stream)

54. 46.Which of the following is a reaction turbine

Mark only one oval.

- Banki turbine
- Jovial turbine
- Girard turbine
- None of the above.

55. 47. Geothermal energy is

Mark only one oval.

- a renewable energy resource
- alternative energy source
- inexhaustible energy source
- any of the above.

56. 48. The disadvantage of renewable sources of energy is

Mark only one oval.

- lack of decidability
- availability in low energy densities
- intermittency
- all of the above.

57. 49. In hydrothermal systems when steam, water, and dissolved solids are available as a source of energy, the entrained solids are removed by

Mark only one oval.

- filters
- centrifugal separators
- strainers
- none of the above

58. 50.The largest geothermal plant in operation is in.....

Mark only one oval.

- Mexico
- Italy
- Russia
- Heliostats

59. 51.An increased tide range twice a month is the

Mark only one oval.

- tidal average
- tidal range
- neap tide
- spring tide

60. 52.Neap tides occur when the earth, sun, and moon form an angle of

Mark only one oval.

- 60 °
- 90 °
- 20 °
- All of the above

61. 53.The minimum range of tide which occurs during first and third quarters of moon is called

Mark only one oval.

- tidal average
- tidal range
- neap tide
- spring tide

62. 54.The difference in levels of ocean water between a high tide and low tide is called

Mark only one oval.

- tidal average
- tidal range
- neap tide
- spring tide

63. 55.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

64. 56. Which among the following have a large amount of installed grid interactive renewable power capacity in India?

Mark only one oval.

- Wind power
- Solar power
- Biomass power
- Small Hydro power

65. 57. The world's first 100% solar powered airport located at _____

Mark only one oval.

- Cochin, Kerala
- Bengaluru, Karnataka
- Chennai, Tamil Nadu
- Mumbai, Maharashtra

66. 58. In a fuel cell, electrical energy is produced by

Mark only one oval.

- Reaction of hydrogen with oxygen
- Thermionic action
- Combustion of fuel in the absence of oxygen.
- Low capacity and low construction time.

67. 59.The installed capacity of wind energy in India is about

Mark only one oval.

8000 MW

1500 MW

6000 MW

4000 MW

68. 60.Direct conversion of heat energy into electrical energy is possible through

Mark only one oval.

MHD generators

Fuel or solar cells

Thermionic converters

Both MHD generators and Thermionic converters

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