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

Course Name - –Control of Electrical Machine
Course Code - DEE604C

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Answer all the questions. Each question carry one mark.

9.   1. A node having only outgoing branches.

Mark only one oval.

( ) Input node

( ) Output node

( ) Incoming node

( ) Outgoing node

10. 2. Loop which do not possess any common node are said to be

Mark only one oval.

- ◯ Forward gain
- ◯ Touching loops
- ◯ Non touching loops
- ◯ Feedback gain

11. 3. A fully controlled converter uses

Mark only one oval.

- ◯ diodes only
- ◯ thyristors only
- ◯ none of the mentioned
- ◯ both diodes and thyristors

12. 4.In a single phase full wave rectifier, during blocking state the peak inverse voltage of diode is

Mark only one oval.

- ◯ Vm
- ◯ 2 Vm
- ◯ Vm / 2
- ◯ 4 Vm

13.   5. The contact resistance of a manually operated switch is

Mark only one oval.

◯ Zero

◯ Very high

◯ Very low

◯ None of the above

14.   6. A switch should have

Mark only one oval.

◯ High insulation resistance

◯ Low insulation resistance

◯ Insulation resistance equal to contact resistance

◯ None of the these

15.   7. The fuse rating is expressed in terms of

Mark only one oval.

◯ Current

◯ Voltage

◯ VAR

◯ KVA

16.   8.Protection by fuses is generally not used beyond

Mark only one oval.

◯ 20 A

◯ 50 A

◯ 100 A

◯ 200 A

17.   9. A fuse in a motor circuit provides protection against

Mark only one oval.

◯ Overload

◯ Short-circuit and overload

◯ Open circuit, short-circuit and overload

◯ none of theseNone of the above

18.   10. In HRC fuse the time between cut-off and final current zero is called the

Mark only one oval.

◯ Pre-arcing time

◯ Arcing time

◯ Total operating time

◯ None of the above

19.   11.By which of the following methods major portion of the heat generated in a HRC
        fuse is dissipated ?

        Mark only one oval.

        ◯ Radiation

        ◯ Convection

        ◯ Conduction

        ◯ None of the above

20.   12. he fuse blows off by

        Mark only one oval.

        ◯ Arcing

        ◯ Burning

        ◯ Melting

        ◯ no options

21.   13. The material best suited for manufacturing of fuse wire is

        Mark only one oval.

        ◯ Silver

        ◯ Copper

        ◯ Aluminium

        ◯ Zinc

22.   14. fuse is normally a

Mark only one oval.

⬭ Power limiting device

⬭ Voltage limiting device

⬭ Current limiting device

⬭ Power factor correcting device

23.   15. A typical light switch in your home is

Mark only one oval.

⬭ Push button

⬭ Toggle

⬭ Rotary

⬭ Knief

24.   16. Relays can be designed to respond to changes in

Mark only one oval.

⬭ Resistance, reactance or impedance

⬭ Voltage and current

⬭ Temperature

⬭ All of the above

25. 17. Thermal overload relays are used to protect the motor against over current due to

Mark only one oval.

( ) Short-circuits

( ) Heavy loads

( ) Grounds.

( ) All options are correct

26. 18. MCB protects a circuit from

Mark only one oval.

( ) Short circuit

( ) Over Load only

( ) Both short circuit and overload

( ) None of these

27. 19. Which of the following fuse is very fast in operation?

Mark only one oval.

( ) KitKat fuse

( ) Semiconductor Fuse

( ) Cartridge fuse

( ) High rupturing capacity type

28.   20. Why starters are required in a DC motor?

Mark only one oval.

⬭ Back emf of these motors is zero initially

⬭ These motors are not self-starting

⬭ These motors have high starting torque

⬭ To restrict armature current as there is no back emf at starting

29.   21. What will happen if DC motor is used without starter?

Mark only one oval.

⬭ Heavy sparking at brushes

⬭ It'll start smoothly

⬭ Will not start at all

⬭ Depends on load

30.   22. The speed of a DC shunt motor can be increased by

Mark only one oval.

⬭ Increasing the resistance in armature circuit

⬭ Increasing the resistance in field circuit

⬭ Reducing the resistance in the field circuit

⬭ Reducing the resistance in the armature circuit

31.   23. Which braking is not possible in series motor?

Mark only one oval.

⬭ dynamic

⬭ plugging

⬭ regenerative

⬭ rheostat

32.   24. What type electric drive is used in cranes?

Mark only one oval.

⬭ mutimotor

⬭ group

⬭ ndividual

⬭ both 2 and 3

33.   25. Which speed control method preferred for constant torque drive?

Mark only one oval.

⬭ field control

⬭ armature voltage control

⬭ mechanical loadin

⬭ None

34.   26. A closed loop system is distinguished from open loop system by which of the
        following ?

Mark only one oval.

( ) Servomechanism

( ) Feedback

( ) Output pattern

( ) Input pattern

35.   27. The armature voltage control of D.C. motor provides

Mark only one oval.

( ) constant voltage drive

( ) constant current drive

( ) constant torque drive

( ) none

36.   28. For which types of D.C. motor, dynamic braking is generally used?

Mark only one oval.

( ) shunt motor

( ) series motor

( ) compound motor

( ) all the above

37.   29. Find the output voltage expression for a step down chopper with Vs as the input voltage and α as the duty cycle

Mark only one oval.

◯ Vo = Vs/α

◯ Vo = Vs x α

◯ Vo = Vs2/α

◯ Vo = 2Vs/απ

38.   30. A step-up chopper has input voltage of 220 V and output voltage of 660 V. If the conducting time of the IGBT based chopper is 100 μs, compute Toff width of the output voltage pulse.

Mark only one oval.

◯ 100 μs

◯ 150 μs

◯ 50 μs

◯ Insufficient data

39.   31. Regenerative method of braking is based on that

Mark only one oval.

◯ back emf is less than the appilied voltage

◯ back emf is equal to the appilied voltage

◯ back emf is more than the appilied voltage

◯ no options are right

40.   32. In case the back e.m.f. and the speed of a D.C. motor are doubled, the torque
       developed by the motor will

       Mark only one oval.

       ◯ remain unchanged

       ◯ Reduce to one-fourth value

       ◯ Increase four folds

       ◯ be doubled

41.   33. Which of the following motors is most suitable for signaling devices and many
       kinds of timers?

       Mark only one oval.

       ◯ dc series

       ◯ dc shunt

       ◯ reluntance motor

       ◯ induction motor

42.   34. For a step-down chopper, when the duty cycle is increased the average value
       of the output voltage

       Mark only one oval.

       ◯ increases

       ◯ decreases

       ◯ remains the same

       ◯ none of the mentioned

43. 35. The expression for a step-up/step-down chopper with α as the duty cycle and Vs as the dc input voltage is

Mark only one oval.

○ Vs/1 − α

○ α x Vs

○ Vs (α/1-α

○ Vs (α/1+α)

44. 36.The acronym PLC stands for

Mark only one oval.

○ Pressure Load Control

○ Programmable Logic Controller

○ Pneumatic Logic Capstan

○ Pressure Loss Chamber

45. 37. Ladder logic programming consists primarily of:

Mark only one oval.

○ Virtual relay contacts and coils

○ Logic gate symbols with connecting lines

○ Function blocks with connecting lines

○ Hieroglyphics

46. 38The difference between online and offline PLC programming is .

Mark only one oval.

- ⬭ whether the PLC is running or stopped
- ⬭ whether the programming PC has internet connectivity
- ⬭ the type of programming cable used
- ⬭ where the edited program resides

47. 39. What is the largest integer number that a PLC counter function can reach if it uses a 16 bit register?

Mark only one oval.

- ⬭ 32768
- ⬭ 65535
- ⬭ 65536
- ⬭ 65537

48. 40. An OR function implemented in ladder logic uses

Mark only one oval.

- ⬭ Normally-closed contacts in series
- ⬭ Normally-open contacts in series
- ⬭ A single normally-closed contact
- ⬭ Normally-open contacts in parallel

49.   41. A good application for a timed interrupt in a PLC program would be

Mark only one oval.

◯ A communications function block

◯ A PID function block

◯ A math function block

◯ A motor start/stop rung

50.   42. Which one of the following is not a PLC manufacturer

Mark only one oval.

◯ Siemens

◯ Mitsubishi

◯ Microsoft

◯ ABB

51.   43. Solenoids, lamps, motors are connected to:

Mark only one oval.

◯ Analog output

◯ Digital output

◯ Analog input

◯ Digital input

52.   44. From the following which statements is correct?

Mark only one oval.

◯ Ladder logic is a PLC graphical programming technique introduced in the last 10 years.

◯ A ladder logic program is hard to analyze because it is totally different when compared with the equivalent relay logic solution.

◯ The number of ladder logic virtual relays and input and output instructions is limited only by memory size.

◯ The number of contacts for a mechanical relay is limited to number of coils on the relay.

53.   45. Which of the following statements is NOT correct?

Mark only one oval.

◯ The status of each input can be checked from one location and outputs can be forced on and off.

◯ All symbols in the RLL represent actual components and contacts present in the control system.

◯ PLCs are not as reliable as electromechanical relays in RLL.

◯ Input (-| |-) and output (- ( ) -) instruction symbols in the ladder logic represent only data values stored in PLC memory.

54.   46. Find the non-correct statements from the following

Mark only one oval.

◯ If a problem in a PLC module occurs, the module can be changed in a matter of minutes without any changes in wiring.

◯ Outputs can be paralleled on the same rung.

◯ The physical wires between the input and output field devices and the PLC input and output modules are the only signal wires required in the PLC system.

◯ The cost and size of PLCs have increased significantly in the last 10 years.

55.   47. Which statement is not true for a single pole double throw relay

Mark only one oval.

○ It is called an SPDT type of relay.

○ It has one common contact

○ It has two positions (NC and NO).

○ It has a center off position.

56.   48. Which option is the correct alternative for a single pole double throw relay

Mark only one oval.

○ Insulators are used in the armature to isolate the electrical switching contacts from the rest of the relay components.

○ The NC contact and the pole are in contact when the relay is off

○ t has just one coil.

○ All options are true.

57.   49. The _____ is moved toward the relay electromagnet when the relay is on.

Mark only one oval.

○ Armature

○ Coil

○ NO contact

○ NC contact

58.   50. When a relay is NOT energized:

Mark only one oval.

◯ There is an electrical path through the NO contacts

◯ There is an electrical path through the NC contacts

◯ Neither the NO or the NC contacts have an electrical path

◯ Both the NO and the NC contacts have an electrical path

59.   51.Which of the following RLL applications is not normally performed in early automation systems?

Mark only one oval.

◯ On/off control of field devices

◯ Logical control of discrete devices

◯ On/off control of motor starters

◯ Proportional control of field devices

60.   52.In a current sinking DC input module

Mark only one oval.

◯ The current flows out of the input field device

◯ Requires that a AC sources be used with mechanical switches

◯ The current flows out of the input module

◯ Currents can flow in either direction at the input module

61.   53. When _____ contacts are actuated, they disrupt the power supply through
       them.

       Mark only one oval.

       ◯ normally open type

       ◯ normally closed type

       ◯ oth 1. and 2.

       ◯ noone from abovet

62.   54. The type of memory which is fast and temporarily stores the data which are
       immediately required for use is called as_____.

       Mark only one oval.

       ◯ HDD

       ◯ ROM

       ◯ RAM

       ◯ SSD

63.   55. How is the speed of operation of conventional relay system as compared to
       digital controllers?

       Mark only one oval.

       ◯ very slow

       ◯ very fast

       ◯ same

       ◯ almost similar

64.   56_____ of PLCs can be done in very little time.

Mark only one oval.

○ Programming

○ Installation

○ Commissioning

○ All of the above

65.   57. From which of the following is type of control system.

Mark only one oval.

○ Closed loop control system

○ Open loop control system

○ Both (1) & (2)

○ None of the above

66.   58. What is the full form of SCADA?

Mark only one oval.

○ Supervision Control And Data Acquisition

○ Supervisory Control And Data Accumulation

○ Supervisory Control And Data Acquisition

○ Supervisory Controller And Data Acquisition

67. 59. ____ is a digital electronic device that uses programmable memory to store instructions.

Mark only one oval.

◯ Programmable logic controller

◯ Servomechanism

◯ Both (1) & (2)

◯ None of the abov

68. 60. A major part of the automatic control theory applies to the:

Mark only one oval.

◯ Casual systems

◯ non-Casual systems

◯ Linear Time invariant systems

◯ non-linear Time invariant systems

69. 61.With feedback _____ increases.

Mark only one oval.

◯ system stability

◯ gain

◯ disturbance

◯ overshoot

70.   62. From which of the following transfer function can be obtained ?

Mark only one oval.

⬭ signal flow graph

⬭ output-input ratio

⬭ standard block system

⬭ analogus table

71.   63. Loop gain is equal to:

Mark only one oval.

⬭ Product of all branch gains while traversing the forward path

⬭ Summation of all branch gains in a loop

⬭ Product of all branch gains in a loop

⬭ Sum of all branch gains while traversing the forward path

72.   64. The advantage of block diagram representation is that

Mark only one oval.

⬭ it is possible to evaluate the contribution of each component to the overall performance of the system.

⬭ it isnot possible to evaluate the contribution of each component to the overall performance of the system.

⬭ it is not possible to evaluate the system stability

⬭ noone is correct

73.   65. The Static system can be defined as:

Mark only one oval.

◯ Output of the system depends only on the present input.

◯ Output of the system depends on future inputs

◯ Output of a system depends only on the received inputs

◯ Output of a system depends on the present as well as past input.

74.   66. If the initial conditions for a system are inherently zero, what does it physically mean?

Mark only one oval.

◯ The system is at rest but stores energy

◯ The system is working but does not store energy

◯ The system is at rest or no energy is stored in any of its part

◯ The system is working with zero reference input

75.   67. A control system with excessive noise, is likely to suffer from

Mark only one oval.

◯ saturation in amplifying stages

◯ loss of gain

◯ vibrations

◯ oscillations

76.   68. Traffic light system is the example of

Mark only one oval.

◯ open loop

◯ closeloop

◯ both

◯ none

77.   69. ___ is a closed loop system.

Mark only one oval.

◯ Auto-pilot for an aircraft

◯ Direct current generator

◯ Car starter

◯ Electric switch

78.   70. In closed loop control system, with positive value of feedback gain the overall gain of the system will

Mark only one oval.

◯ decrease

◯ increase

◯ be unaffected

◯ any of the above

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