

Code No: A109210504

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

II B.Tech. I Sem., II Mid-Term Examinations, November – 2010

BASIC ELECTRICAL ENGINEERING

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. A 'P' pole lap wound dc machine had an armature current 'Ia'. The conductor current in the armature winding is _____ []
a) Ia b) Ia/P (c) P.Ia d) None
2. The armature current & field current will be equal in case of DC machines _____ []
a) shunt b) series c) Separately excited d) None
3. In DC generators, the residual magnetism is of the order of _____ %. []
a) 2.5 b) 10 c) 15 d) 25
4. The current drawn by a DC motor at starting is _____ []
a) Zero b) Very low c) Normal d) Very high
5. Speed control by variation of field flux results in _____ []
a) Constant power drive b) Variable power drive
c) constant torque drive d) variable torque drive
6. The most insufficient method for speed control of dc machine is _____ []
a) Voltage control b) field control c) Armature control d) None
7. An induction motor works with _____. []
a) DC only b) AC only c) both AC & DC d) None
8. The number of slip rings on a 3 phase wound rotor induction motor is _____. []
a) 3 b) 2 c) 6 d) None
9. An ohm-meter is an _____ type instrument. []
a) Dynamo meter b) moving coil c) Moving iron d) Induction
10. A meter that is capable of measuring DC only is _____ []
a) Moving Coil b) Moving Iron c) Thermo Couple d) None

Cont....2

Code No: A109210504**:2:****Set No. 1****II Fill in the blanks:**

11. In a DC machine, the angle between the stator & rotor field is _____.
12. When 'f' is the no. of magnetic reversals, the eddy current losses in a DC generator vary as _____
13. The voltage of DC generator will _____ as field current decreases.
14. Maximum torque in a DC motor is limited by _____ .
15. In a motor the generated EMF is _____ than the terminal voltage.
16. In a cumulatively compound DC machine, the maximum speed is fixed by _____ winding.
17. In an Induction motor, the torque is related to supply voltage as _____
18. The synchronous speed of a 2 pole 3 phase induction motor for supply frequency of 60 Hz is _____
19. An instrument that measures electrical energy is an _____ type instrument.
20. When the instrument is over damped it will become _____

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Set No. 2

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BASIC ELECTRICAL ENGINEERING

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. The current drawn by a DC motor at starting is _____ []
a) Zero b) Very low c) Normal d) Very high
2. Speed control by variation of field flux results in _____ []
a) Constant power drive b) Variable power drive
c) constant torque drive d) variable torque drive
3. The most insufficient method for speed control of dc machine is _____ []
a) Voltage control b) field control c) Armature control d) None
4. An induction motor works with _____. []
a) DC only b) AC only c) both AC & DC d) None
5. The number of slip rings on a 3 phase wound rotor induction motor is _____. []
a) 3 b) 2 c) 6 d) None
6. An ohm-meter is an _____ type instrument. []
a) Dynamo meter b) moving coil c) Moving iron d) Induction
7. A meter that is capable of measuring DC only is _____. []
a) Moving Coil b) Moving Iron c) Thermo Couple d) None
8. A 'P' pole lap wound dc machine had an armature current 'I_a'. The conductor current in the armature winding is _____. []
a) I_a b) I_a/P (c) P.I_a d) None
9. The armature current & field current will be equal in case of DC machines _____. []
a) shunt b) series c) Separately excited d) None
10. In DC generators, the residual magnetism is of the order of _____ %. []
a) 2.5 b) 10 c) 15 d) 25

Cont....2

Code No: A109210504**:2:****Set No. 2****II Fill in the blanks:**

11. Maximum torque in a DC motor is limited by _____ .
12. In a motor the generated EMF is _____ than the terminal voltage.
13. In a cumulatively compound DC machine, the maximum speed is fixed by _____ winding.
14. In an Induction motor, the torque is related to supply voltage as _____
15. The synchronous speed of a 2 pole 3 phase induction motor for supply frequency of 60 Hz is _____
16. An instrument that measures electrical energy is an _____ type instrument.
17. When the instrument is over damped it will become _____
18. In a DC machine, the angle between the stator & rotor field is _____.
19. When 'f' is the no. of magnetic reversals, the eddy current losses in a DC generator vary as _____
20. The voltage of DC generator will _____ as field current decreases.

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Code No: A109210504

Set No. 3

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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BASIC ELECTRICAL ENGINEERING

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. The most insufficient method for speed control of dc machine is _____. []
a) Voltage control b) field control c) Armature control d) None
2. An induction motor works with _____. []
a) DC only b) AC only c) both AC & DC d) None
3. The number of slip rings on a 3 phase wound rotor induction motor is _____. []
a) 3 b) 2 c) 6 d) None
4. An ohm-meter is an _____ type instrument. []
a) Dynamo meter b) moving coil c) Moving iron d) Induction
5. A meter that is capable of measuring DC only is _____. []
a) Moving Coil b) Moving Iron c) Thermo Couple d) None
6. A 'P' pole lap wound dc machine had an armature current 'Ia'. The conductor current in the armature winding is _____. []
a) Ia b) Ia/P (c) P.Ia d) None
7. The armature current & field current will be equal in case of DC machines _____. []
a) shunt b) series c) Separately excited d) None
8. In DC generators, the residual magnetism is of the order of _____ %. []
a) 2.5 b) 10 c) 15 d) 25
9. The current drawn by a DC motor at starting is _____. []
a) Zero b) Very low c) Normal d) Very high
10. Speed control by variation of field flux results in _____. []
a) Constant power drive b) Variable power drive
c) constant torque drive d) variable torque drive

Cont....2

Code No: A109210504**:2:****Set No. 3****II Fill in the blanks:**

11. In a cumulatively compound DC machine, the maximum speed is fixed by ___ winding.
12. In an Induction motor, the torque is related to supply voltage as _____
13. The synchronous speed of a 2 pole 3 phase induction motor for supply frequency of 60 Hz is ___
14. An instrument that measures electrical energy is an ___ type instrument.
15. When the instrument is over damped it will become _____
16. In a DC machine, the angle between the stator & rotor field is _____.
17. When 'f' is the no. of magnetic reversals, the eddy current losses in a DC generator vary as _____
18. The voltage of DC generator will _____ as field current decreases.
19. Maximum torque in a DC motor is limited by _____.
20. In a motor the generated EMF is _____ than the terminal voltage.

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Code No: A109210504

Set No. 4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. The number of slip rings on a 3 phase wound rotor induction motor is _____. []
a) 3 b) 2 c) 6 d) None
2. An ohm-meter is an _____ type instrument. []
a) Dynamo meter b) moving coil c) Moving iron d) Induction
3. A meter that is capable of measuring DC only is _____. []
a) Moving Coil b) Moving Iron c) Thermo Couple d) None
4. A 'P' pole lap wound dc machine had an armature current 'Ia'. The conductor current in the armature winding is _____. []
a) Ia b) Ia/P (c) P.Ia d) None
5. The armature current & field current will be equal in case of DC machines _____. []
a) shunt b) series c) Separately excited d) None
6. In DC generators, the residual magnetism is of the order of _____ %. []
a) 2.5 b) 10 c) 15 d) 25
7. The current drawn by a DC motor at starting is _____. []
a) Zero b) Very low c) Normal d) Very high
8. Speed control by variation of field flux results in _____. []
a) Constant power drive b) Variable power drive
c) constant torque drive d) variable torque drive
9. The most insufficient method for speed control of dc machine is _____. []
a) Voltage control b) field control c) Armature control d) None
10. An induction motor works with _____. []
a) DC only b) AC only c) both AC & DC d) None

Cont....2

Code No: A109210504**:2:****Set No. 4****II Fill in the blanks:**

11. The synchronous speed of a 2 pole 3 phase induction motor for supply frequency of 60 Hz is ____
12. An instrument that measures electrical energy is an ____ type instrument.
13. When the instrument is over damped it will become ____
14. In a DC machine, the angle between the stator & rotor field is ____.
15. When 'f' is the no. of magnetic reversals, the eddy current losses in a DC generator vary as ____
16. The voltage of DC generator will ____ as field current decreases.
17. Maximum torque in a DC motor is limited by ____ .
18. In a motor the generated EMF is ____ than the terminal voltage.
19. In a cumulatively compound DC machine, the maximum speed is fixed by ____ winding.
20. In an Induction motor, the torque is related to supply voltage as ____

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