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CIVIL/MECH/AUTO/ELECT/EEE/ECE/CSE

6th Semester Diploma Engineering Examination, 2019

Subject : Management

Full Marks : 100

Subject Code : MAN-12219

Time : 3 Hours

Pass Marks : 40

Answer any five *questions.*

All questions carry equal marks.

1. (a) What is the Principles of Management? Discuss its function briefly.

(b) Describe about different types of ownership. Explain the meaning of organisation structure. 10+10=20

2. (a) What are the importance of training and development for human resource management?

(b) What are the causes of accidents occurs at different sites and what measures are needed for minimise it? 10+10=20

3. (a) Discuss in brief the objectives and function of financial management.

(b) Explain the various types of taxes. 10+10=20

4. (a) What are the modern techniques used for material management? Explain any one of them.

(b) What are the various types of inventories? Explain the concept of ABC analysis. 10+10=20

5. (a) Differentiate between procurement and purchase.

(b) Draw Break Event chart and represent various items on it. 10+10=20

6. (a) What is Staffing? Explain why training at every level is essential.

(b) Differentiate between CPM and PERT. 10+10=20

7. (a) What do you mean by Intellectual Property Right? Give advantage and disadvantage of globalization.

(b) Explain Maslow's theory of motivation. 10+10=20

12235

EE

6th Semester Diploma Engineering Examination, 2019

Subject : Heating Ventilation and Air Conditioning **Full Marks : 100**

Subject Code : HVA 12235

Time : 3 Hours **Pass Marks : 40**

Answer in your own words.

Answer five *questions in which* Question No. 1 *is compulsory and answer* any four *from the rest questions.*

All questions carry equal Marks.

1. Write few sentences about the following:
   (a) Heat pump
   (b) Enthalpy
   (c) Entropy
   (d) Water Cooler
   (e) Air extraction system

2. Discuss the operation of Vapour Compression Refrigeration System (VCRS) and draw its P-H and T-S curve.

3. Discuss the operation of air refrigeration system.

4. Discuss the desirable properties of refrigerant. What is eco-friendly refrigerants?

5. Write about the types of evaporators and explain each of them in details.

6. (a) Explain in detail the direct expansion type and chilled water type central air-conditioning system.
   (b) Write the different types of humidifiers and dehumidifiers.

7. (a) Write the desirable properties of insulating materials used for air-conditioning.
   (b) Write about the microprocessor based controls used in air conditioning system.

8. Write short notes on *any two* of the following:
   (a) Wall gain load
   (b) Air supply system
   (c) Steam heating
   (d) Pressure equaliser
   (e) Heating with humidification and de-humidification

6th Semester Diploma Engineering Examination, 2019

Subject : Power Electronics and Drives **Full Marks : 100**

Subject Code : PED-12232

Time : 3 Hours **Pass Marks : 40**

Answer in your own words.

Answer five *questions in which* Question No. 1 *is compulsory and answer* any four *from rest questions.*

All questions carry equal marks.

1. Fill in the blanks:

(a) A thyristor possesses _____ *p-n* junction.

(b) The latching current is _____ than the holding current.

(c) I.G.B.T. stands for _____.

(d) The output obtained from a rectifier is _____ in nature.

(e) Choppers are used in _____.

(f) The process of turning of a conducting thyristor is called _____.

(g) The ripple frequency of the output wave form is _____ times the supply frequency in the case of three phase fall converter.

(h) A motor in which rotor runs in discrete movement called _____.

(i) A invertor is a _____ converter.

(j) A converter can be used as a _____.

2. Explain the construction and working of a SCR. Also draw its *V-i* characteristics and label the important points.

3. (a) Discuss classifications of Inverters.

(b) What is a D.C. servomotor? Explain.

4. (a) What are the methods of output voltage control of a $1-\phi$ invertor?

(b) Compare $3-\phi$ and $1-\phi$ convertors.

5. Explain single phase fully controlled bridge converter with *R-L* load. Also draw the wave form.

6. (a) What are the different methods of turning on the SCR? Explain.

   (b) Explain working principle of chopper.

7. Explain, how the speed of a D.C. series motor can be controlled using thyristor? How can this control circuit be modified for reversing the direction of rotation of motor?

8. Write short notes on *any two* of the following:

   (a) A.C. servomotor

   (b) Cyclo converters

   (c) Pulse width modulation

   (d) Step up chopper

6th Semester Diploma Engineering Examination, 2019

Subject : Testing & Maintenance of Electrical M/c **Full Marks : 100**

Subject Code : TME–12231

Time : 3 Hours **Pass Marks : 40**

Answer in your own words.

Answer five *questions in which* Question No. 1 *is compulsory and answer* any four *from rest questions.*

All questions carry equal marks.

1. Choose the correct answers:

(i) Electrical Machines should be stored

(a) in open space.

(b) in the one side of factory.

(c) in clean and dry place.

(d) to place near the existing installed materials.

(ii) Coupling is used for

(a) to join two or more shaft to get required length.

(b) to couple one number of machine with each other.

(c) to couple generator to prime movers.

(d) All of the above

(iii) A fuse element should have

(a) low melting point.

(b) high melting point.

(c) very high melting point.

(d) None of these

(iv) Earth tester is used to measure

(a) insulation resistance

(b) continuity of electrical circuit.

(c) voltage

(d) All of these

(v) Star-delta starter is employed for

(a) D.C. shunt motor.

(b) D.C. compound motor.

(c) three phase induction motor.

(d) D.C. series motor.

(vi) Current transformer is an instrument

(a) to transform A.C. current to D.C. current.
(b) to change the level of current.
(c) to change the level of voltage.
(d) None of these

(vii) Lightening arrester are located

(a) at the tower top.
(b) at the generator terminal.
(c) at the transformer terminal.
(d) at the line entry point of power house.

(viii) Buchholz's relay is generally not provided on transformer below

(a) 5kVA
(b) 2kVA
(c) 50kVA
(d) 500kVA

(ix) Battery charging equipment is generally installed

(a) in clean and dry place.
(b) in well ventilated location.
(c) of charging near the place.
(d) in location having all of above factors.

(x) Insulation resistance is measured by

(a) Ohm meter
(b) Ammeter
(c) Megger
(d) Voltmeter

2. Explain I. E. Act and statuary regulations for safety of persons and equipment working with electrical installation.

3. Describe the method of testing of D.C. motor and write the advantages of its preventive maintenance. What are the factors affecting preventive maintenance schedule?

4. Explain the testing of 3-ϕ induction motor and also write the breakdown maintenance of 3-ϕ Induction motor.

5. Explain the different methods of 1-ϕ (single phase) transformer testing. Write the conditions of parallel operation of 3-ϕ (three phase) transformer.

6. Explain the classification of insulating material and write what factors affecting life of insulting material.

7. Explain the various types of faults in electrical machines and reasons for their occurance.

8. Write short notes on *any two* of the following:

   (a) Operation of fire extinguishers

   (b) Introduction to total productive maintenance

   (c) Brake test on D.C. motors

   (d) Factors involved in designing the machine foundation

6th Semester Diploma Engineering Examination, 2019

Subject : Maintenance and Repair of Electrical Equipment (Elective-III & IV) **Full Marks : 100**

Subject Code : MRE-12234

Time : 3 Hours **Pass Marks : 40**

Answer in your own words.

Answer five *questions in which* Question No. 1 *is compulsory and answer* any four *from rest questions.*

All questions carry equal marks.

1. Write few sentences about the following:
   (a) Different effects of electric current
   (b) Identification of faults in Transformer
   (c) Soldering
   (d) Jointing methods
   (e) Estimation of materials and their cost assessment
2. Write the constructional details and its diagram for food processor.
3. Explain the working of electric oven with neat circuit diagram.
4. Briefly explain the following with circuit diagram:
   (a) Timer
   (b) Oscillator
5. Draw a neat block diagram of microwave oven. Explain the function of each block.
6. What is laser and write about different laser equipments?
7. Explain the method of testing of the following with multimeter:
   (a) Transistor
   (b) *P-N* junction diode

8. Write short notes on *any two* of the following:

(a) DVD players

(b) Types of remote controller

(c) Air-cooler

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