SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR (AUTONOMOUS) B. TECH II Year I Semester Supplementary Examinations June 2019 ELECTRICAL AND MECHANICAL TECHNOLOGY (Civil Engineering) Max. Marks: 60 (Answer all Six Units 6 X 10 = 60 Marks) UNIT-I 1 Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR 2 Define the following terms: a. Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-II 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination (UNIT-III) 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a assume any missing data.	_
(AUTONOMOUS) B. TECH II Year I Semester Supplementary Examinations June 2019 ELECTRICAL AND MECHANICAL TECHNOLOGY (Civil Engineering) Max. Marks: 60 (Answer all Six Units 6 X 10 = 60 Marks) UNIT-1 1 Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR 2 Define the following terms: a. Accuracy b. Precision c. Error d. Resolution e. Sensitivity UNIT-II 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
B. TECH II Year I Semester Supplementary Examinations June 2019 ELECTRICAL AND MECHANICAL TECHNOLOGY (Civil Engineering) Max. Marks: 60 (Answer all Six Units 6 X 10 = 60 Marks) UNIT-I 1 Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. 2 Define the following terms: a. Accuracy b. Precision c. Error d. Resolution e. Sensitivity UNIT-II 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
Answer all Six Units 6 X 10 = 60 Marks) (Answer all Six Units 6 X 10 = 60 Marks) (INIT-II) 1 Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR 2 Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-III 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
(Answer all Six Units 6 X 10 = 60 Marks) UNIT-1 1 Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR 2 Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-II 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
Calculate the equivalent resistance of the circuit shown below and determine the curre flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-II Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
flow through in 6 ohm resistor. Also find the power consumed by the circuit. OR Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-II Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	ent 10M
OR 2 Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity UNIT-II 3 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	
 Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram and inspection of wiring diagram and	
 Define the following terms: a.Accuracy b.Precision c.Error d.Resolution e.Sensitivity Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram and inspection of wiring diagram and	
 Write short notes on a. Battern wiring. b. PVC conduit wiring system. OR Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram and the state of t	10M
 a. Battern wiring. b. PVC conduit wiring system. OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram and the state of the st	10M
OR 4 Define the following terms used in illumination engineering. a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram as	10141
 a. Plane angle. b. Solid angle. c. Luminous flux. d. Luminous Intensity. e. Illumination UNIT-III 5 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR 6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram and the state of the state o	
 What are the various points to be considered for testing and inspection of electrical domes wiring system? Explain OR A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a 	n 10M
6 A 7 HP, 400V, 3-phase, 50 Hz induction motor is to be installed in a flour mill as shown figure. Estimate the quantity of materials required. Show the layout of wiring diagram a	tic 10M
Door 7 HP 6 m	
MB 2 m	
5 m 2 m	
7 Explain reciprocating compressor with neat sketch.	10M
8 Explain Ducting. What are the requirements and various classifications of ducting?	10M
9 Explain Fast and loose pulley drive with neat sketch. OR	10M
10 Explain Conveyers and Excavators with neat sketch. UNIT-VI	10M
a. What is welding? What are the types of welding process? b. What are the applications of welding?	5M 5M
OR	J1 V1
What is TIG welding? Explain working of TIG Welding process with neat sketch *** END ***	10M