

**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)**

L.B. Reddy Nagar :: Mylavaram-521 230 :: NTR Dist. :: A.P

Approved by AICTE, New Delhi. Affiliated to JNTUK, Kakinada

B.Tech. (V Semester) (R17) Semester End Examinations (Supplementary) - April 2026

(2018, 2019 Regular admitted batches and 2020 Lateral Entry admitted batch only)

R17**TIME TABLE****Time: 10.00 AM to 01.00 PM****A.Y. 2025-26**

Branch	01-04-2026 (Wednesday)	02-04-2026 (Thursday)	04-04-2026 (Saturday)	06-04-2026 (Monday)	07-04-2026 (Tuesday)	08-04-2026 (Wednesday)	09-04-2026 (Thursday)
							Add on course - I
ASE	17HS01 - Engineering Economics and Accountancy	17AE09 - Elements of Heat Transfer	17AE10 - Aerodynamics-II	17AE11 - Propulsion - I	17AE12 - Aircraft Systems and Instruments	PE-I 17ME22 - CAD/CAM 17AE13 - Theory of Machines	17AE90 - Aerospace Materials
CE	17HS01 - Engineering Economics and Accountancy	17CE12 - Structural Analysis - II	17CE13 - Design of Reinforced Concrete Structures - I	17CE14 - Highway Engineering	17CE15 - Hydrology	PE-I 17CE18 - Construction Management	17CE90 - Green Buildings
CSE	17HS01 - Engineering Economics and Accountancy	17CS03 - UML and Design Patterns	17CI14 - Web Technologies	17CI15 - Automata Theory and Compiler Design	17CS04 - Operating Systems	PE-I 17CI12 - Human Computer Interaction 17CI13 - Advanced Database Management Systems	17CS90 - Advanced Graph Algorithms
ECE	17HS01 - Engineering Economics and Accountancy	17EC13 - Computer Organization and Architecture	17EC14 - Transmission Lines and Wave Guides	17EC15 - Digital Communications	17EC16 - VLSI Design	PE-I 17EI18 - Micro Electro Mechanical Systems	17EC90 - Electronic Measurements and Instrumentation
EEE	17HS01 - Engineering Economics and Accountancy	17EE10 - Linear and Digital Integrated Circuits	17EC22 - Microprocessors and Microcontrollers	17EE11 - Electrical Machines - II	17EE12 - Electrical Power Transmission	PE-I 17EE14 - Renewable Energy Technologies 17EE15 - Electrical Engineering Materials	17EE90 - Electrical Safety
EIE	17HS01 - Engineering Economics and Accountancy	17EI05 - Communication Systems	17EC22 - Microprocessors and Microcontrollers	17EI06 - Integrated Circuits and Applications	PE-I 17EI09 - Intelligent Instrumentation 17EC16 - VLSI Design	17EI07 - Control Systems Engineering	17EI90 - Safety Instrumentation
IT	17HS01 - Engineering Economics and Accountancy	17CI17 - Data Communications and Computer Networks	17EC22 - Microprocessors and Microcontrollers	17CI08 - Design and Analysis of Algorithms	17CI10 - Software Engineering	PE-I 17CI23 - Artificial Intelligence	17IT90 - Real Time Operating Systems
ME	17ME11 - Industrial Management	17ME12 - IC Engines and Gas Turbines	17ME13 - Mechanical Engineering Design - I	17ME14 - Dynamics of Machines	17ME15 - Metal Cutting and Machine Tools	PE-I 17ME16 - Non-Conventional Energy Sources 17ME17 - Mechanical Vibrations	17ME90 - Energy, Environment and Pollution

Note: Any omissions or clashes in the time table may please be informed to the Controller of Examinations immediately.**Date:****17 MAR 2026****CONTROLLER OF EXAMINATIONS****PRINCIPAL**

Copy to: 1. Vice-Principal, Deans & HoDs 2. T&P cell, Transport in-charge & Librarian
3. Canteen. PD. Security & Hostels 4. Coordinator-Disciplinary 5. Notice Boards

02 APR 2026

H.T.No

R17

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B. Reddy Nagar :: Mylavaram – 521 230 :: NTR Dist.: A.P.

B.Tech (V Semester) Supplementary Examinations

17ME12-IC ENGINES AND GAS TURBINES

(ME)

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Classify the IC engines on various grounds with examples.	6M	CO1	L1
(b)	Explain the working of 4-stroke SI engine with suitable sketches.	6M	CO1	L2
(OR)				
2(a)	Explain the working of a simple carburetor with a neat sketch.	6M	CO1	L1
(b)	Compare the merits and demerits of supercharged engines over normal IC engines.	6M	CO1	L2
(OR)				
3(a)	Why cooling is necessary for engines? Explain water cooling system.	6M	CO1	L2
(b)	Illustrate the working of a battery ignition system.	6M	CO1	L2
(OR)				
4(a)	Compare air standard cycles and actual cycles.	6M	CO2	L1
(b)	Describe the effect of time loss factor and heat loss factor on engine performance.	6M	CO2	L2
(OR)				
5(a)	Elucidate the stages of combustion in SI engines using P-θ diagram.	6M	CO3	L2
(b)	Explain the phenomenon of knock in SI engines.	6M	CO3	L2
(OR)				
6(a)	Bring out clearly the process of combustion in CI engines and explain various stages of Combustion.	6M	CO3	L2
(b)	Explain diesel knock and differentiate between the knocking phenomena in S.I. and C.I. engines.	6M	CO3	L2
(OR)				
7(a)	Why is Morse test not used for single cylinder engine? Describe the method of finding friction power using Morse test.	6M	CO4	L1
(b)	Explain the methods to control engine exhaust emissions.	6M	CO4	L2
(OR)				
8(a)	A four-cylinder engine running at 1200 rpm delivers 20kW. The average torque when one cylinder was cut is 110 Nm. Find the indicated thermal efficiency if the calorific value of the fuel is 43MJ/kg and the engine uses 360 grams of gasoline per kWh.	6M	CO4	L4
(b)	Discuss any one type of fuel consumption measurement in IC engines with necessary sketch.	6M	CO4	L2
(OR)				
9(a)	Describe with neat sketch the working of a simple constant pressure open cycle gas turbine.	6M	CO5	L2
(b)	In a Brayton cycle the pressure ratio is 5 and maximum and minimum temperatures are 800 K and 310 K. Determine the (i) net work output per kg of air (ii) efficiency of the cycle.	6M	CO5	L3
(OR)				
10(a)	Explain the Turbo-Jet engine with a neat sketch.	6M	CO5	L2
(b)	Distinguish jet engines and rocket engines.	6M	CO5	L2

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B.Tech (V. Semester) Supplementary Examinations

17EC22 -MICROPROCESSORS AND MICROCONTROLLERS

(EEE,EIE&IT)

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Draw and explain the architecture of 8086 microprocessor.	8M	CO1	L2
(b)	Describe the functions of general-purpose registers in 8086.	4M	CO1	L2
(OR)				
2(a)	Discuss different addressing modes of 8086 with examples.	6M	CO2	L2
(b)	Write an assembly language program for sorting a list of numbers.	6M	CO2	L3
3(a)	Explain minimum mode operation of 8086 with control signals.	8M	CO1	L2
(b)	Differentiate between minimum mode and maximum mode of 8086.	4M	CO1	L4
(OR)				
4(a)	Discuss interrupt structure of 8086 and interrupt vector table.	6M	CO1	L2
(b)	Describe the memory write cycle of 8086 with timing diagram.	6M	CO1	L2
5(a)	Explain the architecture and operation of DMA controller 8237.	6M	CO3	L2
(b)	Discuss different modes of operation of 8255 PPI.	6M	CO3	L2
(OR)				
6(a)	Explain USART 8251 with block diagram and working.	6M	CO3	L2
(b)	Describe A/D and D/A converter interfacing with 8086.	6M	CO4	L3
7(a)	Draw and explain the pin diagram of 8051.	6M	CO1	L2
(b)	Describe addressing modes of 8051 with examples.	6M	CO2	L2
(OR)				
8(a)	Discuss instruction set of 8051 with suitable examples.	6M	CO2	L2
(b)	Explain memory organization of 8051.	6M	CO1	L2
9(a)	Explain different modes of timer operation in 8051.	6M	CO1	L2
(b)	Discuss interrupt structure of 8051.	6M	CO1	L2
(OR)				
10(a)	Explain interfacing of seven-segment display with 8051.	6M	CO4	L3
(b)	Describe stepper motor interfacing with 8051.	6M	CO4	L3

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B.Tech. (V Semester) Supplementary Examinations

17EE11-ELECTRICAL MACHINES-II

(EEE)

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Explain the production of rotating magnetic field in a three-phase induction motor.	6M	CO1	L2
(b)	Derive the expression for rotor EMF and rotor frequency of a three-phase induction motor.	6M	CO1	L3
(OR)				
2(a)	Explain the constructional features of squirrel cage and slip ring induction motors and compare them.	6M	CO1	L2
(b)	Prove that torque of an induction motor is proportional to slip at low slip region and inversely proportional at high slip region.	6M	CO1	L4
3(a)	Derive the condition for maximum torque in a three-phase induction motor.	6M	CO2	L3
(b)	A 3-phase induction motor develops maximum torque at 20% slip. Determine the ratio of starting torque to maximum torque.	6M	CO2	L3
(OR)				
4(a)	Explain the no-load and blocked rotor tests used to determine parameters of induction motor.	6M	CO2	L2
(b)	A 400V, 3-phase induction motor takes 30kW input at full load. Stator losses = 1kW, mechanical losses = 1.5kW. Calculate slip, rotor copper loss and efficiency if output is 26kW.	6M	CO2	L3
5(a)	Explain double field revolving theory of single-phase induction motor.	6M	CO3	L2
(b)	Analyze torque-slip characteristics of single-phase induction motor and explain why it is not self-starting.	6M	CO3	L4
(OR)				
6(a)	Explain the working of capacitor start capacitor run induction motor with neat diagram.	6M	CO3	L2
(b)	Explain the working of shaded pole induction motor with neat diagram.	6M	CO3	L2
7(a)	Derive the EMF equation of synchronous generator.	6M	CO1	L3
(b)	Explain the MMF method of determining voltage regulation of alternator.	6M	CO2	L2
(OR)				
8(a)	Explain the conditions necessary for parallel operation of alternators.	6M	CO2	L2
(b)	Analyze the two-reaction theory of salient pole alternator.	6M	CO2	L4
9(a)	Explain the principle of operation of synchronous motor.	6M	CO1	L2
(b)	Analyze the effect of excitation on synchronous motor performance using V-curves.	6M	CO4	L4
(OR)				
10(a)	Explain different starting methods of synchronous motor.	6M	CO4	L2
(b)	A 3-phase synchronous motor operates at constant voltage. Analyze how power factor changes with increase in load.	6M	CO4	L4

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B.Tech. (V Semester) Supplementary Examinations

17CE15-HYDROLOGY

(CE)

Time : 3 hours

Max.Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL																								
1(a)	Define the following terms (i) Evaporation (ii) Transpiration (iii) Evapotranspiration.	6M	CO1	L1																								
(b)	Discuss about the factors affecting evaporation.	6M	CO1	L2																								
(OR)																												
2(a)	Describe the hydrological cycle with a neat sketch.	6M	CO1	L2																								
(b)	Outline the factors affecting Evaporation.	6M	CO1	L2																								
(OR)																												
3(a)	Predict the reservoir capacity for a specified yield, from the mass inflow curve.	6M	CO2	L3																								
(b)	Explain the catchment characteristics in detail.	6M	CO2	L2																								
(OR)																												
4(a)	Explain the SCS-CN method of estimating runoff volume.	6M	CO2	L2																								
(b)	Discuss the steps to draw flow duration curve.	6M	CO2	L2																								
(OR)																												
5(a)	Describe the construction of S-curve hydrograph.	6M	CO3	L1																								
(b)	Given below are the ordinates of a 6 h unit hydrograph for a catchment, calculate the ordinates of the DRH due to a rainfall excess of 3.5 cm occurring in 6 h. <table><tr><td>Time (h)</td><td>0</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td><td>18</td><td>21</td><td>24</td><td>27</td><td>30</td></tr><tr><td>Ordinates of 6-h UH (m³/s)</td><td>0</td><td>25</td><td>50</td><td>85</td><td>100</td><td>60</td><td>36</td><td>25</td><td>16</td><td>8</td><td>0</td></tr></table>	Time (h)	0	3	6	9	12	15	18	21	24	27	30	Ordinates of 6-h UH (m ³ /s)	0	25	50	85	100	60	36	25	16	8	0	6M	CO3	L3
Time (h)	0	3	6	9	12	15	18	21	24	27	30																	
Ordinates of 6-h UH (m ³ /s)	0	25	50	85	100	60	36	25	16	8	0																	
(OR)																												
6(a)	List out limitations and uses of Unit Hydrograph.	6M	CO3	L1																								
(b)	The following are the ordinates of 2-h unit hydrograph. Derive the ordinate of a 6-hour unit hydrograph and plot the same by method of superposition. <table><tr><td>Time (h)</td><td>0</td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td></tr><tr><td>Ordinates of 2-h UH (m³/s)</td><td>0</td><td>15</td><td>30</td><td>50</td><td>80</td><td>60</td><td>40</td><td>20</td><td>10</td><td>5</td><td>0</td></tr></table>	Time (h)	0	2	4	6	8	10	12	14	16	18	20	Ordinates of 2-h UH (m ³ /s)	0	15	30	50	80	60	40	20	10	5	0	6M	CO3	L3
Time (h)	0	2	4	6	8	10	12	14	16	18	20																	
Ordinates of 2-h UH (m ³ /s)	0	15	30	50	80	60	40	20	10	5	0																	
(OR)																												
7(a)	Define the following terms (i) Hydraulic routing (ii) Hydrologic routing (iii) Channel routing (iv) Reservoir routing	6M	CO4	L1																								
(b)	Describe the method of estimating a Tr - year flood using Log-Pearson type III distribution.	6M	CO4	L1																								
(OR)																												

17CE15-HYDROLOGY

8(a)	Describe the various non-structural measures of flood management.	6M	CO4	L1
(b)	The annual flood peak of a river is estimated to have 50 years and 100 years floods of 660 m ³ /s and 740 m ³ /s respectively. Estimate the flood magnitude in this river with a return period of 200 years.	6M	CO4	L3
9(a)	Define the following terms. (i) Aquifer (ii) Aquiclude (iii) Aquifuge.	6M	CO5	L1
(b)	In an unconfined aquifer of 50 m thickness, a 20 cm diameter well is pumped at a uniform rate of 0.05 m ³ /s. If the steady state drawdown measured in the observation wells located at 10 m and 100 m distances from the well are 6.5 m and 0.25 m respectively. (i) Determine the hydraulic conductivity of the aquifer. (ii) Determine the radius of influence (iii) Determine the drawdown in the well.	6M	CO5	L3
(OR)				
10(a)	Derive an expression for the steady state discharge of well fully penetrating a confined aquifer.	6M	CO5	L2
(b)	During a recuperation test conducted on an open well in a region, the water level in the well was depressed by 3 m and it was observed to rise by 1.75 m in 75 minutes. (i) Determine the specific yield of open wells in that region. (ii) Determine the yield from a well of 5 m diameter under a depression head of 2.5 m. (iii) Determine the diameter of the well to give a yield of 12 lit/s under a depression head of 2.0 m.	6M	CO5	L3

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B.Tech. (V Semester) Supplementary Examinations

**17EE14-RENEWABLE ENERGY TECHNOLOGIES
(EEE)**

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Examine the working principle of various types of concentrating solar collectors with neat sketch.	6M	CO2	L3
(b)	Classify renewable energy sources. Compare in brief these energy sources with Alternate energy sources.	6M	CO3	L2
(OR)				
2(a)	Distinguish between Flat plate Collectors and Concentric collectors.	6M	CO1	L1
(b)	Write a short notes on (i) Yawing (ii) solidity (iii) torque coefficient.	6M	CO2	L1
3(a)	Explain how each heat transfer mechanism varies with temperature difference.	6M	CO1	L4
(b)	Explain what are the applications for solar thermal systems.	6M	CO1	L4
(OR)				
4(a)	Explain how the heat transfers from solar radiation to a fluid in a collector.	6M	CO1	L1
(b)	What is the difference between an 'active' and a 'passive' solar system for heating water?	6M	CO1	L4
5(a)	What is a fuel cell and how does it work and what are the advantages of fuel cell?	6M	CO2	L2
(b)	Explain the constructional features of proton exchange membrane fuel cells.	6M	CO2	L4
(OR)				
6(a)	Analyze about PV effect and state the advantage and disadvantage of PV Solar Energy.	6M	CO2	L1
(b)	What are the advantages and disadvantages of PV solar energy conversion system?	6M	CO2	L4
7(a)	Analyze the Hybrid-inverter topology with necessary diagrams.	6M	CO3	L2
(b)	Describe about AC link Integration of Multiple renewable sources.	6M	CO2	L2
(OR)				
8(a)	How the inverters are commercially utilized in Photo Voltaic systems? Discuss each of them.	6M	CO2	L2
(b)	Discuss the control of Reactive Power for integration of Renewable energy sources with grid.	6M	CO2	L2
9(a)	Illustrate with a neat sketch discuss about Bio digester.	6M	CO2	L2
(b)	List out energy storage systems, briefly discuss about them.	6M	CO1	L1
(OR)				
10(a)	What is Bio Mass? What are the benefits of Bio gas technology? Write the percentage compositions of Bio gas.	6M	CO5	L3
(b)	What is Micro turbine? Explain the construction and working of micro turbine.	6M	CO5	L3

09 APR 2026

H.T.No.

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B.Tech. (V Semester) Supplementary Examinations

2023008
9/4/26

**17EC90-ELECTRONIC MEASUREMENTS AND INSTRUMENTATION
(ECE)**

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Summarize the static characteristics of a measuring instrument.	6M	CO1	L2
(b)	The expected value of the current through a resistor is 80mA. However the measurement yields current is 79mA. Calculate (i) Absolute error (ii)% error (iii)relative accuracy and (iv)% of accuracy.	6M	CO1	L3
(OR)				
2(a)	Illustrate how multiplier resistances should be arranged to make the voltmeter as Multi range voltmeter.	6M	CO1	L2
(b)	Describe the construction and working of Solid State Voltmeter.	6M	CO1	L2
3(a)	Calculate the value of the shunt resistance required for a 1mA meter movement having an internal resistance of 100Ω which is used to convert into a multi range ammeter having the range 0-10mA, 0-20mA and 0-50mA.	6M	CO1	L3
(b)	Predict the expression for balance condition to measure unknown inductance and resistance of Anderson's Bridge.	6M	CO1	L3
(OR)				
4(a)	Explain with a diagram the operation of a shunt type ohmmeter. Compare series and shunt type ohmmeter.	6M	CO4	L2
(b)	In a Wien bridge oscillator $R_1 = R_2 = 75k\Omega$, $C_1 = C_2 = 400pf$ with usual notation. Determine the frequency of oscillations.	6M	CO4	L3
5(a)	Analyze the operation of laboratory type square and pulse generator with functional block diagram.	6M	CO2	L4
(b)	Describe the operation of random noise generator with help of characteristic curves.	6M	CO2	L2
(OR)				
6(a)	Interpret the operation of basic wave analyzer with circuit diagram.	6M	CO2	L2
(b)	Paraphrase the operation of Heterodyne Wave Analyzer.	6M	CO2	L2
7(a)	Explain the working of digital storage oscilloscope with neat block diagram.	6M	CO1	L2
(b)	List out the different types of probes used for CROs? Explain about each of them	6M	CO1	L2
(OR)				
8(a)	Illustrate the working of sweep or Time Base Generator.	6M	CO4	L3
(b)	Discuss the principle and working of a sampling oscilloscope.	6M	CO4	L2
9(a)	What is an LVDT? Why the secondary winding of LVDT is connected in series opposition?	6M	CO3	L2
(b)	A resistance strain gauge with a gauge factor of 2 is cemented to a steel member, which is subjected to a strain of 1×10^{-6} . If original resistance value of the gauge is 130Ω , calculate the change in resistance	6M	CO3	L3
(OR)				
10(a)	Define Piezo-electric effect? Describe with the diagram the operations of a Piezo-electric transducer.	6M	CO3	L2
(b)	Describe the operation and construction of Strain gauge. State its specific advantages?	6M	CO3	L2

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B.Tech. (V Semester) Supplementary Examinations

17EE90-ELECTRICAL SAFETY

(EEE)

Time : 3 hours

Max. Marks : 60

Answer one question from each unit

All questions carry equal marks

Q.No	Questions	Marks	CO	BL
1(a)	Define primary and secondary electrical hazards. Explain their effects on human body.	6M	CO1	L2
(b)	Describe the following safety equipment with applications: (i) Insulated tools (ii) Safety barriers and warning signs.	6M	CO1	L1
(OR)				
2(a)	Explain the working principle of proximity voltage testers and contact testers.	6M	CO1	L2
(b)	List and explain the components of an electrician's safety kit.	6M	CO1	L2
3(a)	Define grounding. Explain its importance in electrical systems.	6M	CO2	L2
(b)	Describe the procedure of grounding of electrical equipment.	6M	CO2	L1
(OR)				
4(a)	Explain the purpose of system grounding with suitable examples.	6M	CO2	L2
(b)	Discuss different types of grounding electrodes used in practice.	6M	CO2	L2
5(a)	List and explain the six-step electrical safety procedure.	6M	CO3	L2
(b)	What is lockout-tagout (LOTO)? Explain its importance in maintenance work.	6M	CO3	L1
(OR)				
6(a)	Explain the concept of flash hazard and safe working distance.	6M	CO3	L2
(b)	Describe the procedure for safe switching of power systems.	6M	CO3	L1
7(a)	Define preventive maintenance. Explain its role in electrical safety.	6M	CO3	L2
(b)	Describe the concept of maintenance frequency and its significance.	6M	CO3	L1
(OR)				
8(a)	Explain Reliability Centered Maintenance (RCM) with its objectives.	6M	CO3	L2
(b)	List and explain safety requirements for maintenance of electrical equipment.	6M	CO3	L2
9(a)	Explain the objective and scope of Indian Electricity Rules related to safety.	6M	CO4	L2
(b)	Discuss safe limits of current and voltage for human safety.	6M	CO4	L2
(OR)				
10(a)	Describe the rules related to earthing of system neutral.	6M	CO4	L1
(b)	Explain first aid procedures for electric shock victims.	6M	CO4	L2
