Q.P. Code: 1802205 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Basic Electrical Engineering (CE & ME)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

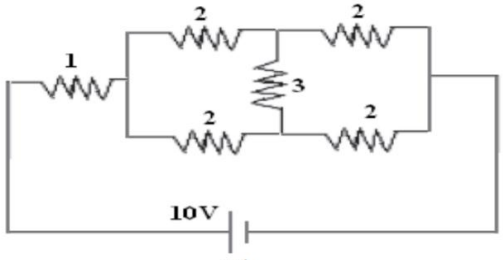
1. **(a)** Define: **7M**
i) Electrical Power, ii) current iii) voltage iv) circuit and v) loop

(b) Obtain the expressions for star-delta equivalence of Resistive Networks. **7M**

(OR)

2. **(a)** State Kirchhoff's voltage law (KVL) and Kirchhoff's current law (KCL) with an example **7M**

(b) Find the total power dissipated in the circuit shown in the Figure. (All resistances are in ohms). **7M**



UNIT – II

3. Establish the phase relationship between voltage and current in series and parallel combinations of i) RL circuit, ii) RC circuit and iii) RLC circuits. Sketch the phasor diagrams and impedance diagrams in all the cases. **14M**

(OR)

4. **(a)** Explain the following terms with respect to alternating quantities with a neat diagram **7M**
i) Phase and phase difference ii) Frequency and period. iii)Resistance and Impedance.

(b) A voltage V=250Sin(πt) is applied to a load having 250Ω in series with 638mH inductor. Estimate power consumed by the load and reactive power of load **7M**

UNIT – III

5. **(a)** With a neat sketch, explain the construction of a DC generator **10M**

(b) A 6-pole armature is wound with 498 conductors. The flux and the speed are such that the average generated emf in each conductor is 2.5V. The current in each conductor is 110A. Find the total current and generated emf of the armature if the winding is connected in: **4M**
(i) Wave (ii) Lap
Also, find the total power generated in each case.

(OR)

6. **(a)** Classify different types of DC Generators with a neat diagram. **10M**

(b) A 4-pole, lap wound dc generator has a useful flux per pole is 0.07wb. What will be the emf induced in the generator if it is driven at a speed of 900rpm with the help of prime mover. Armature consists of 440 number of conductors. Also calculate the generated e.m.f. if lap wound armature is replaced by wave wound armature. **4M**

UNIT – IV

7. **(a)** Describe the tests to be performed on a single-phase transformer to determine the **10M**

equivalent circuit parameters.

	(b)	A 3-Φ, 6 pole, 50Hz cage motor is running with a slip of 4%. Determine the following: i) Speed of rotating field relative to stator winding. ii) Motor speed. iii) Slip speed.	**4M**

(OR)

8.	**(a)**	What are the different losses that occur in transformer? Which losses vary with load? How?	**7M**
	(b)	Draw and explain the slip-torque characteristics of a 3-phase induction moto	**7M**

UNIT-V

9.	**(a)**	Explain the operation of Power Rectifiers and state its applications.	**7M**
	(b)	State the Advantages and Disadvantages of cables as compared to wires	**7M**

(OR)

10.	**(a)**	Classify the difference between Circuit Breaker and Miniature Circuit Breaker.	**7M**
	(b)	What is the importance of earthing and explain different types of earthing?	**7M**

Q.P. Code: 1802206 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

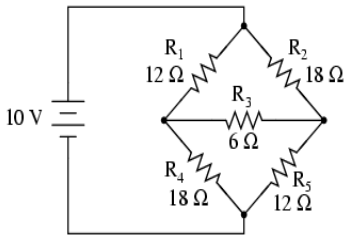
SUB: Basic Electrical Engineering (EEE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1. (a) Find the equivalent resistance of the circuit shown and find the current produced by 10V source . **7M**

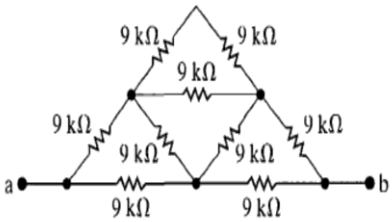


(b) Find the response of RL network with DC excitation using time domain analysis method. **7M**

(OR)

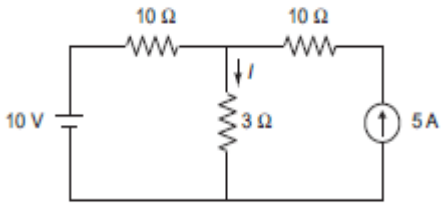
2. (a) Find the response of RC network with DC excitation using time domain analysis method. **7M**

(b) Find the equivalent resistance between the terminals a and b of the circuit shown. **7M**



UNIT – II

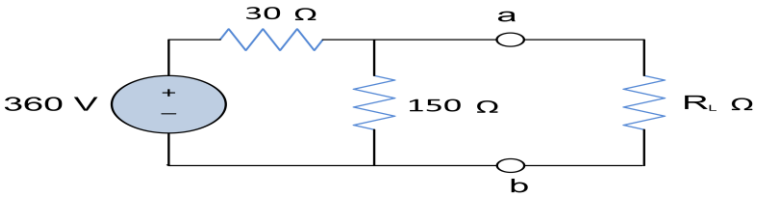
3. (a) Calculate the current through the 3Ωresistor in the circuit shown in figure shown using superposition theorem. Also calculate the power across the 3Ω resistor **7M**



(b) State and explain Thevinien's theorem with help of an example **7M**

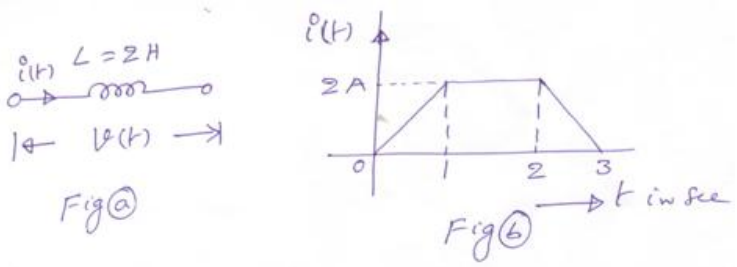
(OR)

4. Find R_L so that maximum power transfers across the load and find the maximum power also. **14M**



UNIT – III

5. An inductor shown in bellow fig.(a) is supplied with a current wave form given fig.(b). Draw the wave forms for the voltage and energy in the inductor. **8M**



(b) Derive the expression for (i) Average Value (ii) RMS value for sinusoidal waveform**.** **6M**

(OR)

6. (a) Define (i) Impedance (ii) Admittance (iii) Real Power (iv) Reactive power **8M**

(b) Find the response of RC network with AC excitation using time domain analysis method. **6M**

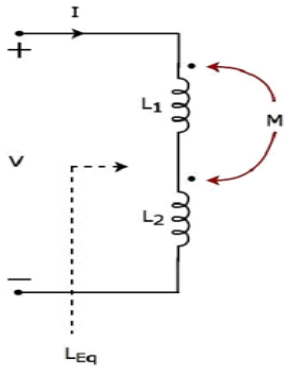
UNIT – IV

7. (a) Derive the expression for coefficient of coupling. **7M**

(b) Briefly explain the concept of duality with an example **7M**

(OR)

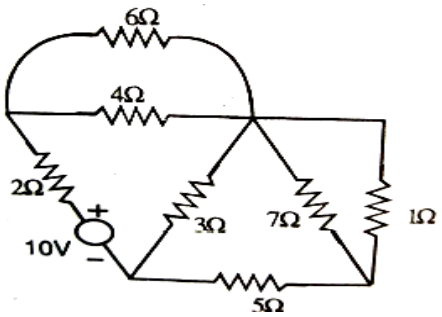
8. (a) Find Equivalent inductance value for the below figure if L_1 =5H , L_2=3H and M=1H. **8M**



(b) Define (i) self inductance (ii) mutual inductance (iii) co-efficient of coupling. **6M**

UNIT-V

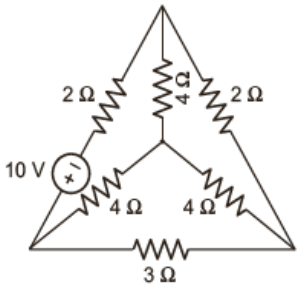
9. (a) For the graph shown in figure write the Tieset matrix. **8M**



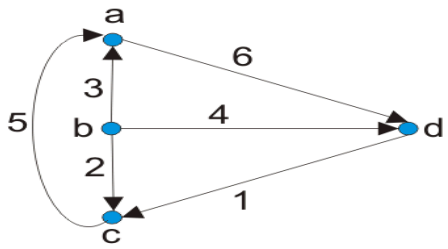
(b) Define (i) tree (ii) co-tree (iii) incidence matrix **6M**

(OR)

10. (a) Write the tieset schedule for the circuit shown below develop the equilibrium equations **7M**



(b) Draw the cut-set matrix for the below figure. **7M**



Q.P. Code: 1805204 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Programming for Problem Solving (ECE & CSE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT – I

1.	(a)	Define SDLC. List and explain the steps involved in SDLC.	7M
	(b)	What is data type? write a c program to display the sizes of various data types in C.	7M
		(OR)	
2.	(a)	Define flow chart and explain various symbols used in flow chart with an example.	10M
	(b)	Define identifier and list the naming rules of an identifier.	4M

UNIT – II

3.	(a)	Explain the following operators. i)Arithmetic operators ii)Bitwise operators	7M
	(b)	Discuss selection statements with a suitable example for each.	7M
		(OR)	
4.	(a)	What do you mean by loop. Explain the difference between do-while and while loop.	7M
	(b)	There are four coins a ,b, c, d out of which three coins are of equal weight and one coin is heavier. Write a C program to find the heavier coin.	7M

UNIT – III

5.	(a)	Discuss in detail about 2-Dimensional arrays.	7M
	(b)	Define string and write a c program to reverse a string without using built in functions.	7M
		(OR)	
6.	(a)	Write a c program to perform matrix multiplication.	7M
	(b)	Explain the differences in between linear search and binary searh.	7M

UNIT – IV

7.	(a)	Compare call by value with call by reference and explain with a suitable example	7M
	(b)	What is recursive function. Write a c program to find factorial of a number using recursive function.	7M
		(OR)	
8.	(a)	Describe the pointer to pointer mechanism with an example program.	7M
	(b)	Define function and explain the types of functions.	7M

UNIT-V

9.	(a)	What is a structure? Explain how to declare, initialize and access the structure elements.	10M
	(b)	Explain why we need structures.	4M
		(OR)	
10.	(a)	Write a program to illustrate the use of array of structure	7M
	(b)	Distinguish between structures and unions	7M

Q.P. Code: 1821201 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Mathematics-II (Common to all branches)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1. (a) Solve the differential equation $\left(1+y^2\right)dx=\left(Tan^{-1}y-x\right)dy$ **7 M**

(b) Solve the differential equation $(x^2y-2xy^2)dx-(x^3-3x^2y)dy=0$ **7 M**

(OR)

2. If the air is maintained at 30^0 C and the temperature of the body cools from 90^0 C to 60^0 C in 10 minutes, find the temperature of the body after 30 minutes and when the temperature will be 30^0 C **14 M**

UNIT – II

3. (a) Solve the differential equation $\left(D-2\right)^2 y=3(x+e^x+\sin 3x)$ **8 M**

(b) Solve the differential equation $\left(D^2+2D-3\right)y=xe^{-3x}$ **6M**

(OR)

4. (a) Solve $\left(D^3+1\right)y=50$ **6 M**

(b) Solve $y''-2y'+y=e^x\log x$ by the method of variation of parameter **8 M**

UNIT – III

5. (a) Find $L\left[e^{-3t}(2\cos 5t-3\sin 5t)\right]$ **6 M**

(b) Evaluate $L\left(\frac{1-e^t}{t}\right)$ **8 M**

(OR)

6. (a) Using Convolution theorem find $L^{-1}\left(\frac{1}{(s+a)(s+b)}\right)$ **6 M**

(b) Solve the differential equation $\frac{d^2x}{dt^2}+9x=\sin t$ using Laplace Transform given that $x(0)=1, x\left(\frac{\pi}{2}\right)=1$ **8 M**

UNIT – IV

7. (a) Explain the procedure to evaluate the region of integration **4 M**

(b) Evaluate $\int_0^1\int_{x^2}^{2-x} xy\,dx\,dy$ by change the order of integration **10 M**

(OR)

8. Evaluate $\iiint(x+y+z)\,dxdydz$ over the tetrahedron bounded by the planes $x=0, y=0, z=0$ and $x+y+z=1$ **14 M**

UNIT-V

9. (a) Find the directional derivative of $\phi=xyz$ along the direction of the normal to the **7 M**

surface $x^2z + y^2x + yz^2 = 3$ at the point (1,1,1)

(b) Show that the vector $(x^2 - yz)\bar{i} + (y^2 - zx)\bar{j} + (z^2 - xy)\bar{k}$ is irrotational and find its scalar potential **7 M**

(OR)

10. (a) Verify Green's theorem for $\int_C [(xy + y^2)dx + x^2dy]$ where C is bounded by $y = x$ and $y = x^2$ **10 M**

(b) Verify the divergence theorem for $F = 4xi - 2y^2j + z^2k$ taken over the region bounded by the cylinder $x^2 + y^2 = 4, z = 0, z = 3$ **4 M**

Q.P. Code: 1822202 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Engineering Physics (CE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1.	**(a)**	What is interference? Explain the techniques to get interference?	5 M
	(b)	Explain the interference in the thin film by reflection?	9M
		(OR)	
2.	**(a)**	Explain Fraunhofer diffraction due to single slit	9M
	(b)	The first diffraction minima due to single slit diffraction is at $\theta = 30^0$ for a light of wavelength 5000 A^0. Find the width of the slit?	5 M
		UNIT – II	
3.	**(a)**	Derive the relation between Einstein coefficients?	8 M
	(b)	Explain various excitation mechanism in Laser	6M
		(OR)	
4.	**(a)**	State the principle and explain the working of semiconductor laser with neat energy band diagram?	9 M
	(b)	Mention the applications of laser?	5 M
		UNIT – III	
5.	**(a)**	Explain velocity and acceleration in polar coordinates?	7 M
	(b)	Explain the conservative and non-conservative forces?	7 M
		(OR)	
6.	**(a)**	Derive the formal solution of kinematical equations?	8 M
	(b)	What are the Newton's laws and explain their applications?	6 M
		UNIT – IV	
7.	**(a)**	What is rigid body? Explain motion of a rigid body in the plane?	7 M
	(b)	Explain the Euler's laws of motion?	7 M
		(OR)	
8.	**(a)**	Explain angular momentum about a point of a rigid body in planar motion?	7 M
	(b)	Derive the kinematics in a co-ordinate system rotating and translating in the plane?	7 M
		UNIT-V	
9.	**(a)**	Explain drift velocity and electrical conductivity based on free electron theory?	7 M
	(b)	Explain direct and indirect band gap semiconductors?	7 M
		(OR)	
10.	**(a)**	Explain origin of energy bands in the solid based on Kronig-Penney model?	9 M
	(b)	Write differences between conductors, semiconductors, and insulators?	5 M

Q.P. Code: 1822203 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Engineering Physics (EEE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1.	(a)	What is simple harmonic motion and mention its characteristics	6M
	(b)	Derive the energy and power dissipation equations of a damped harmonic oscillator.	8M
		(OR)	
2.	(a)	What is the principle of superposition of waves? Describe the superposition of two waves of same frequency.	6M
	(b)	Differentiate damped and forced harmonic oscillations? Explain the principle of forced harmonic oscillator with an example. Discuss the variation of amplitude of a harmonic oscillator as a function of the frequency of the driving force.	8M
		UNIT – II	
3.	(a)	What is wavefront? Define Huygen's principle of propagation of light. Mention the advantages and drawbacks of the Huygen's principle.	6M
	(b)	Describe the Fraunhofer diffraction at a single slit. Obtain the conditions for principal maxima and explain the intensity distribution graph.	8M
		(OR)	
4.	(a)	What is diffraction grating and how it is used for diffraction experiments. Determine the conditions for maxima and minima in diffraction grating? Find the angle of the third-order maximum for 580-nm wavelength of yellow light falling on a diffraction grating having 1500 lines per centimeter.	8M
	(b)	Explain the interference in thin films based on division of amplitude.	6M
		UNIT – III	
5.	(a)	Differentiate spontaneous and stimulated emission of radiation using energy level diagram.	6M
	(b)	Explain the construction and working of Nd-YAG lasers. Mention the advantages and drawbacks of the laser system.	8M
		(OR)	
6.	(a)	What is the importance of population inversion in lasers and explain in detail about it using an energy level diagram.	6M
	(b)	Discuss the construction and working of He-Ne lasers using a neat sketch of energy level diagram.	8M
		UNIT – IV	
7.	(a)	Explain the concept of dual nature of matter. Discuss the importance of uncertainty principle in quantum mechanics.	6M
	(b)	Derive Schrodinger time dependent and independent wave equations.	8M
		(OR)	
8.	(a)	Assume a particle in a one dimensional potential well, using quantum mechanics principles derive the probability of finding particle and energy of the particle for ground, first and second excited states of the particle.	10M
	(b)	Discuss the physical significance of wave function.	4M
		UNIT-V	
9.	(a)	What is the importance of Fermi energy in semiconductors? Discuss the dependence of Fermi energy level on temperature and carrier concentration.	8M
	(b)	Mention the postulates of classical free electron theory of metals. Discuss the advantages and drawbacks of it.	6M
		(OR)	
10.	(a)	Using the Kronig-Penney model, explain the electron motion in a periodic potential. How this model helps to classify the types of solids.	8M

(b) Differentiate direct and indirect bandgap semiconductors using E-k diagram. 6M

Q.P. Code: 1822204 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Engineering Physics (ME)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1.	(a)	What is superposition principle of light waves? Show that bandwidth of bright fringes is equal to the bandwidth of dark fringes in Youngs double slit experiment.	10M
	(b)	What is Huygens' principle ? Define wave front.	4M
		(OR)	
2.	(a)	Define interference of light waves. Derive bright and dark band conditions in the reflected light by a thin film.	10M
	(b)	Newton rings are observed in the reflected light of wavelength 5900A. The diameter of the 10^{th} dark ring is 0.5cm. Find the radius of curvature of the lens.	4M
		UNIT – II	
3.	(a)	Explain spontaneous emission and stimulated emission. Write any four differences between them.	6M
	(b)	Define pumping and population inversion. Describe Nd-YAG laser.	8M
		(OR)	
4.	(a)	What are the characteristics of laser ?	4M
	(b)	Describe He-Ne laser. Draw energy level diagram. Write any four applications of it.	10M
		UNIT – III	
5.	(a)	What are the two requirements for simple harmonic oscillator? A body of mass 0.05 Kg executes s.h.m. When the displacement from the center of motion is 0.04m, the force acting on the body is 0.018N. If the max.velocity is 2m/s find the amplitude and acceleration.	6M
	(b)	What causes damped oscillations? Set the differential equation of motion of damped oscillations and derive the solution. Discuss the low damping condition. Show the damped oscillations pictorically.	8M
		(OR)	
6.	(a)	i)Define quality factor. Write the equation for quality factor in series LCR circuit. Give the maximum conditions for Q . Write the damping conditions. ii)What is Q value for an undamped system?	8M
	(b)	i) Define mechanical impedance and electrical impedance. ii) How is mechanical impedance related with resonant frequency and force? iii)Calculate the impedance and phase angle for a series LCR circuit containing L=3.6 mH, C=0.38micro farad, R=120ohm, generator frequency=6.4KHz.	6M
		UNIT – IV	
7.	(a)	Derive the wave equation for a string.	8M
	(b)	Derive the amplitudes of transmitted and reflected waves at a boundary.	6M
		(OR)	
8.	(a)	Explain standing waves. Derive eigen frequencies for standing waves.	8M
	(b)	Consider a string in a guitar whose length is 80cm and mass of 0.32gm is pluckedwith a tension 80N. Compute the first four frequencies.	6M
		UNIT-V	
9.	(a)	Explain free electron theory of metals. Define the drift velocity and derive the electrical conductivity using free electron theory.	10M
	(b)	Find the drift velocity of free electrons in a copper wire of cross sectional area of 10mm^2 carrying current 100A. Assume that each copper atom contributes one electron to the free electrons gas. Density of copper is 8969 Kg/m^3 and its atomic weight is 63.54.	4M
		(OR)	
10.	(a)	Define Fermi level and Fermi energy. Write the equation for Fermi function and explain all	8M

the parameters.

(b) Define intrinsic, extrinsic, direct bandgap, indirect bandgap semiconductors. Give one example for each. 6M

Q.P. Code: 1823202 **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: Engineering Chemistry (ECE & CSE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions choosing one question from each unit.
All questions carry Equal Marks.

UNIT - I

1.	**(a)**	Write the Schrodinger wave equation and give its significance.	**6M**
	(b)	Explain the crystal field splitting in octahedral complexes with suitable example	**8M**
		(OR)	
2.	**(a)**	Illustrate the role of doping with one example.	**7M**
	(b)	Write your understanding about molecular orbitals of a simple diatomic molecule with example.	**7M**

UNIT – II

3.	**(a)**	Discuss hard, soft acids and bases. What is the significance of this concept?	**9M**
	(b)	Summarize the penetration of orbitals.	**5M**
		(OR)	
4.	**(a)**	Define Electron affinity and Ionization energies. How these properties vary in periodic table? Justify your answer.	**8M**
	(b)	Write a note on i) Oxidation states ii) Polarizability	**6M**

UNIT – III

5.	**(a)**	Write a short not on critical phenomena	**6M**
	(b)	Define corrosion and discuss the Galvanic corrosion	**8M**
		(OR)	
6.	**(a)**	What is the change in free energy of a system at chemical equilibria?	**7M**
	(b)	Define entropy and free energy and give the relation between them.	**7M**

UNIT – IV

7.	**(a)**	Define spectroscopy and write the general principles of spectroscopy.	**7M**
	(b)	Outline the fluorescence and write its applications in medicine	**7M**
		(OR)	
8.	**(a)**	Explain vibrational spectroscopy of diatomic molecules.	**7M**
	(b)	Why UV spectroscopy is called electronic spectroscopy? Write the applications of electronic spectroscopy.	**7M**

UNIT-V

9.	**(a)**	State and explain Markownikoff's addition with example.	**6M**
	(b)	Discuss the conformational analysis of cyclohexane.	**8M**
		(OR)	
10.	**(a)**	Compare the E_1 and E_2 reaction mechanism	**6M**
	(b)	Explain enantiomers and diastereomers with examples.	**8M**

Q.P. Code: 1824203 | **SET - 1**

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

B. Tech. II Sem. (R18) Supplementary Examinations of August – 2021

SUB: English (ECE & CSE)

Time: 3 Hours **Max. Marks: 70**

Answer any FIVE Questions from the following.
All questions carry Equal Marks.

1. (i) What is the time _____ your watch? (Use correct 'Preposition') **14M**
(ii) I blame _____ for it. (Use suitable 'reflexive pronoun')
(iii) This is the wisest plan of the two. (Correct the sentence)
(i) He confessed his crime. (Change to 'Complex Sentence')
(ii) Use the idiom 'once in a blue moon' and frame a meaningful sentence
(iii) My brother wrote a book on chemistry. (Convert the tense to' Present Perfect')
(iv) I _____ my car key last month. (Had lost / lost)
(v) He told me that he was happy to be there that evening. (Change to 'Direct Speech')
(vi) 'Ambiguity' (Write 'Antonym')
(vii) Criterion. (Write 'Synonym)
(viii) He said, "I am going home today." (Change to 'Indirect Speech')
(ix) Who wrote the letter? (Change to 'Passive Voice')
(x) 'Hunger' (change to 'adjective' form)
(xi) 'Fluency' (change to 'Adverb' form)

2. (a) Discuss word formation giving suitable examples. **7M**

(b) What is 'writing precisely'? Write any five techniques to write precisely. **7M**

3. (a) Define the term 'prefix'. Add a suitable 'prefix' to form antonymous meaning for each of the following words: **7M**
(i) Proper (ii) Legal (iii) Patient (iv) Worthy (v) Honest

(b) Rewrite the sentence by putting the misplaced modifier in its correct position for each of the sentences given below: **3M**
(i) On his way home, Rajesh found a gold man's watch.
(ii) The torn student's book lay on the floor.
(iii) We ate the lunch that we had brought slowly.

(c) Identify the tense forms of the underlined words. **4M**
(i) How long <u>has</u> James <u>known</u> you? (ii) Parrots <u>live</u> in India.
(iii) The girls <u>are playing</u> in the room.
(iv) <u>Saritha had been waiting</u> nearly for an hour before you came.

4. 'Technology is like a double-edged Knife.' Elucidate in the form of an essay. **14M**

5. Write a paragraph on any **<u>TWO</u>** of the topics given below: **14M**
(i) My favorite vacation spot (ii) An important person in Indian history
(iii) My hobby

6. (a) Write the meaning and make a sentence for each of the idioms given below. **8M**
(i) Go scot free. (ii) Crocodile tears. (iii) A lame duck. (iv) Fight a losing battle.

(b) Precis writing: **6M**
Condense the following text to 1/3 of its length and write the final draft.
Gandhi wrote in The Story of My Experiments with Truth:'In the case of *ahimsa*, non-violence, *brahmacharya*, celibacy, *aparigraha*, non-possession and other cardinal virtues, I am fully conscious of a continuous striving for their cultivation. But he also subtly wove spirituality into politics, in his struggle for *swaraj*, in breaking free of the British Empire. He used fasting, penance, *ahimsa*, and *satyagraha* as

weapons to fight the Raj. He wrote: 'Truth, *satya*, implies love, and firmness, *agraha*, engenders and therefore serves as a synonym for force. I thus began to call the Indian movement *Satyagraha*, the force which is born of truth and love and non-violence. At a young age, he fasted on *Ekadashi* to please his parents who were devout Hindus. Later he fasted to get his point across in the political arena. 'Gandhi took his understanding of suffering and applied it to his political work, fighting for Indians' rights in South Africa and freedom from British rule in India. This is not to say that Gandhi's allegiance to the notion of suffering stemmed solely from its practical use to him. On the contrary, he held it close to his heart primarily as a matter of religious belief. But he also exploited suffering for its full political benefit.' (208 words)

7. (a) Give **one** synonym for each of the following: **7M**

(i) Silly (ii) Cooperate (iii) Brilliant (iv) Transport (v) Fright (vi) Emerge (vii) Scream

(b) Give **one** antonym for each of the following: **7M**

(i) Growth (ii) Loud (iii) Normal (iv) Liberal (v) Conceal (vi) Credit (vii) Cloudy

8. Reading comprehension: **14M**

Read the following passage carefully and answer the questions given below it.

The history of literature really began long before man learnt to write. Dancing was the earliest of the arts. Man danced for joy round his primitive camp fire after the defeat and slaughter of his enemy. He yelled and shouted as he danced and gradually the yells and shouts became coherent and caught the measure of the dance and thus the first war song was sung. As the idea of God developed prayers were framed. The songs and prayers became traditional and were repeated from one generation to another, each generation adding something of its own.

As man slowly grew most civilized, he was compelled to invent some method of writing by three argent necessities. There were certain things that it was dangerous to forget and which therefore had to be recorded. It was often necessary to communicate with persons who were some distance away and it was necessary to protect one's property by making tools, cattle and so on in some distinctive manner. So, man taught himself to write and having learnt to write purely for utilitarian reasons he used this new method for preserving his war songs and his prayers. Of course, among these ancient peoples, there were only a very few individuals who learnt to write and only a few could read what was written.

1. Before man invented writing
(a) literature was passed on by word of mouth. (b) prayers were considered literature.
(c) temperature was just singing and dancing. (d) there was no literature.
2. As for the war songs and prayers each generation
(a) added something of its own to the stock
(b) blindly repeated these songs and prayers
(c) composed it's on songs and prayers
(d) repeated what has handed down to it
3. The first war song
(a) was inspired by God (b) developed spontaneously
(c) was a song traditionally handed down (d) was composed by leading dancers
4. The war song evolved out of
(a) creative inspiration (b) there was no literature
(c) artistic urge (d) yelling and shouting
5. Men invented writing because he wanted
(a) to be artistic (b) to write war song
(c) to write literature (d) to record and communicate
6. The word 'measure' in the context of the passage means
(a) weight (b) rhythm (c) size (d) quantity
7. Choose the antonym of the word 'civilized'

(a) friendly (b) courteous (c) rude (d) polite