



# K.S.R.M. COLLEGE OF ENGINEERING

(AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 003

**I B.Tech. I Semester (R20 UG) Model paper-2021**

**Applied Physics** (Subject Code 20AP102)

**Electronics and communication Engineering- (A,B & C)**

**Max. Marks: 60**

**Time: 3 Hours**

**Answer ALL the questions. All Questions carry Equal Marks**

**5x12=60 Marks**

## UNIT – I

1. a) Explain the Interference of light due to thin films by reflection. 8M  
b) Describe Newton's rings experiment to determine the wave length of monochromatic light. 4M

(OR)

2. a) Discuss the Fraunhofer diffraction at a single slit. Obtain the condition for principal maximum and minima. Write the expression for intensity distribution. 10M  
b) In Newton's rings experiment, the diameter of the 2<sup>nd</sup> and 10<sup>th</sup> rings are 0.400 cm 0.700 cm respectively. Find the diameter of the 20<sup>th</sup> ring. 2M

## UNIT – II

3. a) Derive the relation between Einstein's "A" and "B" coefficients. 5M  
b) State the principle and explain the working of semiconductor laser with neat energy band diagram 7M

(OR)

4. a) Draw the block diagram of an optical fiber-based communication system and explain the function of each block. 6M  
b) What is fiber loss? Mention the factors for the fiber loss and explain them briefly. 6M

## UNIT – III

5. a) Explain the following. 4M  
i) Dielectric polarization      ii) Dielectric polarization  
iii) Susceptibility              iv) Dielectric constant  
b) Obtain an expression for the internal field seen by an atom in an infinite array of atoms subjected to an external field. 8M

(OR)

6. ) a) Distinguish between dia, para, ferro, antiferro magnetic materials qualitatively. 8M  
b) What are soft and hard magnetic materials? Write some applications of magnetic materials. 4M

## UNIT – IV

7. Derive the independent and time dependent Schrodinger wave equations 12M

(OR)

8. a) Derive the Equation for electrical conductivity based on quantum free electron theory 6M
- b) Explain Fermi-Dirac distribution function. How does it vary with temperature? 6M

**UNIT – V**

9. a) Explain the formation of intrinsic and extrinsic semiconductors and how they can be distinguished. 10M
- b) Write any two applications of Hall effect 2M

(OR)

10. Explain the BCS theory of superconductors. Discuss the magnetic behavior of type-I and type-II Superconductors. 12M

**Subject Code: 20EC102/R20**

**K.S.R.M COLLEGE OF ENGINEERING, KADAPA  
(AUTONOMOUS)  
MODEL QUESTION PAPER  
FOUR YEAR B. TECH DEGREE EXAMINATIONS  
I B.TECH I SEMESTER REGULAR EXAMINATION  
SUB: ENGINEERING CHEMISTRY  
(ME)**

**Time : 3hrs**

**Max marks**

**:60**

**Answer any Five questions choosing one question from each unit. (12x5=60M)**

**UNIT-I**

1. (a) Differentiate Temporary & Permanent Hardness of water . (4M)  
(b) Discuss briefly about Ion exchange Process. (8M)  
(Or)
2. (a) Estimate the amount of Hardness present in given water sample by EDTA method. (6M)  
(b) Explain any two boiler troubles. (6M)

**UNIT-II**

3. (a) Define Corrosion and explain the mechanism of Electrochemical corrosion (8M)  
(b) Demonstrate the working principle of Zinc air battery (4M)  
(Or)
4. (a) Summarize the factors influencing Corrosion (6M)  
(b) Define cell potential and derive Nernst equation (6M)

**UNIT-III**

5. (a) Illustrate the process of Refining of Petroleum with neat diagram (8M)  
(b) Simplify Buna-S & PVC. (4M)  
(Or)
6. (a) Explain the mechanism of Chain growth polymerization with suitable example. (8M)  
(b) Write short notes on (i) types of fuels (ii) functionality of monomers. (4M)

#### UNIT-IV

7. (a) Outline the mechanisms of Thin and Thick film lubrication. (8M)

(b) List any 4 properties of lubricants (4M)

(Or)

8. (a) Interpret the properties of Refractories (6M)

(b) Write notes on Setting and Hardening of Cement (6M)

#### UNIT-V

9. (a) Elaborate the synthesis of colloids by Dispersion method. (6M)

(b) Simplify the applications of Nano materials. (6M)

(Or)

10. (a) Write notes on Stabilization of colloids and Nano materials by stabilizing agents (10M)

(b) Define micelle and colloids (2M)



# K.S.R.M. COLLEGE OF ENGINEERING

(AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 003

I B.Tech. I Semester (R20 UG) Model paper-2021

Engineering Physics (Subject Code 20EP102)

## Civil Engineering

Max. Marks: 60

Time: 3 Hours

Answer ALL the questions. All Questions carry Equal Marks

5x12=60 Marks

### UNIT – I

1. (a) Determine the radius of curvature of Plano convex lens experimentally by using Newton's rings experiment. 8M

(b) In Newton's rings experiment the diameter of 8<sup>th</sup> ring was 0.4cm and the diameter of the 18 ring was 0.7cm. If the wavelength of the light 6000 Å is used then find the radius of curvature of the Plano-convex lens. 4M

(OR)

2. (a) What is diffraction grating? Discuss the diffraction phenomena in the plane diffraction grating and determine the grating equation. 8M

(b) A parallel beam of sodium light is allowed to be incident normally on a plane having 4250 lines per cm and a second order spectral line is observed to be deviated through 30° calculate the wavelength of light. 4M

### UNIT – II

3. (a) Write the difference between spontaneous and stimulated emission. 4M

(b) Describe the construction and working of He-Ne [Gas] laser. 8M

(OR)

4. (a) Discuss the different types of optical fibers. 3M

(b) Derive an expression for numerical aperture of an optical fiber. 6M

(c) Calculate the numerical aperture and acceptance angle of an optical fiber. The refractive index of core and cladding are 1.48 and 1.45 respectively. 3M

### UNIT – III

5. (a) Classify the magnetic materials on the basis of magnetic moment. 6M

(b) Analyze the hysteresis curve. Write about soft and hard magnetic materials. 6M

(OR)

6. (a) Explain the sol-gel method. Write the advantages and disadvantages 8M

(b) Write the different applications of the nanomaterials. 4M

### UNIT – IV

7. (a) Discuss about Reverberation and Reverberation Time. 2M

(b) Evaluate the Sabine's formula for reverberation time. 10M

(OR)

8. (a) Write the properties of the ultrasonics. Explain the production of ultrasonics by piezoelectric method. 8M

(b) Write the applications of the ultrasonics. 4M

### UNIT – V

9. (a) Explain the crystal structure of FCC 6M

(b) Describe the procedure to find the Miller indices and mention its significance. 6M

(OR)

10. (a) State and explain Bragg's law of X-ray diffraction. 8M

(b) The Bragg's angle in the first order for (2 2 0) reflection from nickel (FCC) is 38.2°. when X-rays of wavelength 1.54 Å are employed in a diffraction experiment, determine the lattice parameter of nickel. 4M

R20

**K.S.R.M COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA**  
B.Tech. I Sem. (R20) Regular Examinations of May 2021

**SUB: - ENGINEERING DRAWING**

(COMMON TO ECE, EEE, CIVIL)

MODEL PAPER

Time:- 3Hours

Max Marks:- 70

Answer any FIVE Questions choosing one question from each unit

All questions carry Equal Marks

**UNIT-I**

1. Construct a parabola, with the distance of the focus from the directrix as 50. Also, draw normal and tangent to the curve, at a point 40 from the directrix.

(OR)

2. Construct a cycloid, given the diameter of the generating circle as 40. Draw tangent to the curve at a point on it, 35 from the line.

**UNIT-II**

3. A line AB of 100mm length, is inclined at an angle of  $30^\circ$  to HP and  $45^\circ$  to VP The point A is 15mm above HP and 20mm in front of VP Draw the projections of the line.

(OR)

4. Draw the projections of a hexagonal pyramid, with side of base 30 mm and axis 70 mm long, which is resting with a triangular face on HP such that, the axis is parallel to VP. Follow the change of position method.

**UNIT-III**

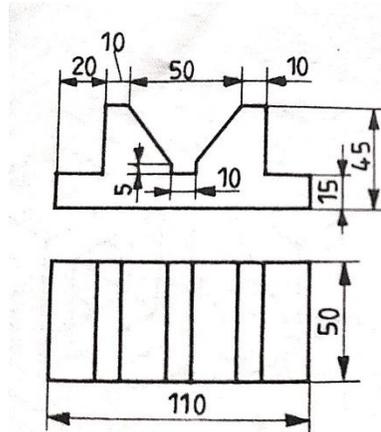
5. A cube of side 40 mm, is resting on HP on one of its faces, with a vertical face inclined at  $30^\circ$  to VP. It is cut by a section plane inclined at  $45^\circ$  to HP and passing through the axis at 8 mm from the top surface. Draw the projections of the solid and also show the true shape of the section.

(OR)

6. A cylinder of diameter of base 40 mm and axis 55 mm long, is resting on its base on HP It is cut by a section plane, perpendicular to VP and inclined at  $45^\circ$  to HP. The section plane is passing through the top end of an extreme generator of the cylinder. Draw the development of the lateral surface of the cut cylinder.

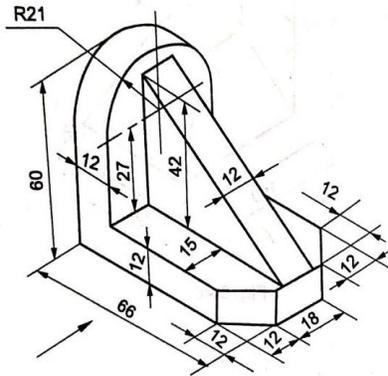
## UNIT-IV

7. Draw an isometric view of orthographic projections shown below.



(OR)

8. Draw the front view, top view and side view of given object below. All dimensions are in mm.



## UNIT-V

9. A hexagonal plane of side 30 is resting on an edge on the ground with its surface inclined at  $30^\circ$  to P.P. The nearest corner of the plane is 10 away from P.P. The station point is 50 in front of P.P. and 80 above G.L. and in the central plane of the object. Draw its perspective.

(OR)

10. A pentagonal pyramid of side of base 25 and height 50, rests with an edge of the base, touching the P.P. The station point is on the central line passing through the apex and 80 from P.P. and 65 above the ground. Draw the perspective view of the solid.

**Subject code: 2005103**

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

**B.Tech I Year I Semester (R20) Regular Examinations, May/June 2021**

**C PROGRAMMING & DATA STRUCTURES**

**(Common to EEE, ME, CSE)**

**Time: 3 hours**

**Max.Marks: 60**

---

**Answer any FIVE Questions Choosing One Question from each unit.**

**All Questions carry equal marks.**

**UNIT –I**

1.a. Define Expression and explain in detail about Expressions with example? 6M

b. Explain Switch statement with an example? 6M

**or**

2.a. Write a C program to find sum of individual digits of a given number? 6M

b. Explain Jumping statements and their use in c language? 6M

**UNIT –II**

3.a . What is a function? When we use functions mention the uses of functions?6M

b. Explain in detail about Two dimensional arrays with an example? 6M

**or**

4. a. Explain about storage classes in c? 6M

b. Define string? Explain about String handling functions in c? 6M

**UNIT-III**

5. a. What is a Pointer? Explain how pointers can be declared and initialized? 6M

b. Explain chain of pointers with suitable example? 6M

**or**

6.a. Differentiate Structures and unions with suitable example? 6M

b. Explain Array of Structures in detail? 6M

**UNIT-IV**

7.a. What is a Stack? Implement Stack operations Using C program? 6M

b. What is Searching? Explain in detail about Linear search? 6M

**or**

8. What is Sorting? Explain in detail about Bubble Sort with an Example? 12M

**UNIT-V**

9.a. What is a Linked List? Explain Single Linked list? 6M

b. Explain single linked list operations? 6M

**or**

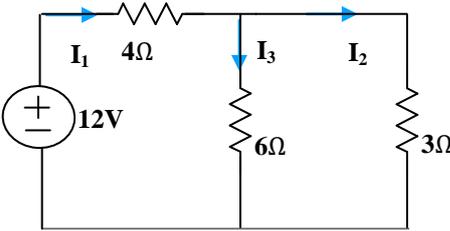
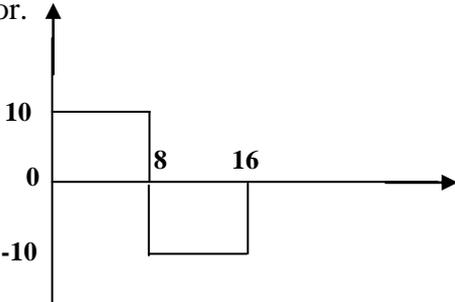
10. Why we use Trees in Data structures. Explain in detail about Binary trees?12M

KSRM COLLEGE OF ENGINEERING, KADAPA  
(AUTONOMOUS)  
B. TECH., I SEM (R20)  
(Common to CSE, CE, ME)  
SUB: BASIC ELECTRICAL & ELECTRONICS ENGINEERING  
MODEL PAPER

Time: 3 HRS

Max. Marks: 60

Note: Answer any *five* questions choosing *one* from each unit

<u>UNIT - I</u>		
1(a)	State and explain Kirchoff's laws with one simple example?	6M
(b)	Determine the currents $i_1$ , $i_2$ & $i_3$ for the following circuit. <div style="text-align: center;">  </div>	6M
(Or)		
2(a)	For the periodic waveform shown below, determine the following. (i) Frequency (ii) RMS Value (iii) Average Value (iv) Form Factor (v) Peak factor. <div style="text-align: center;">  </div>	6M
(b)	A resistance of $20\Omega$ and an inductance of $0.2H$ are connected in series and are fed by a $230V$ , $50Hz$ , $1-\phi$ , AC supply. Find (i) inductance reactance ( $X_L$ ) (ii) impedance ( $Z$ ) (iii) current supplied by the source ( $I$ ) (iv) Active power drawn by the load ( $P$ ).	6M
<u>UNIT - II</u>		
3(a)	Explain the working principle of DC – Motor?	6M
(b)	Derive the induced EMF equation of a DC – Motor?	6M
(Or)		
4(a)	Explain OC and SC tests on single phase transformer? Explain with neat circuit diagram?	6M
(b)	Explain principle and operation of three phase induction motor?	6M
<u>UNIT - III</u>		
5(a)	Explain the forward bias characteristics of a p-n junction diode.	6M

(b)	Explain the operation of an npn transistor.	6M
(Or)		
6(a)	Explain the input characteristics of a BJT in CB configuration.	6M
(b)	Explain the operation of an n-channel JFET.	6M
<b><u>UNIT - IV</u></b>		
7(a)	Draw the inverting amplifier circuit using op-amp and explain.	6M
(b)	Define CMRR, PSRR and Slew rate.	6M
(Or)		
8(a)	Draw the inverting comparator circuit using op-amp and explain.	6M
(b)	Draw the op-amp subtractor circuit and explain.	6M
<b><u>UNIT - V</u></b>		
9(a)	Explain briefly about AC and DC distribution system?	6M
(b)	Define short, medium and long transmission lines?	6M
(Or)		
10(a)	Draw the half adder circuit and explain with the help of truth table.	6M
(b)	Write the excitation table of JK flipflop and explain.	6M



# K.S.R.M. COLLEGE OF ENGINEERING

(AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 003

I B.Tech., I Semester (R20 UG)

LINEAR ALGEBRA AND CALCULUS (Subject Code 2021101)

(Common to All Branches)

Time: 3 Hours

MODEL PAPER

Max. Marks: 60

Note: Answer any **FIVE** questions by choosing ONE from each unit.  
All questions carry equal marks.

## UNIT - I

1. a) Determine the rank of the following matrix by using Echelon form.

(6M)

$$A = \begin{bmatrix} 2 & 1 & 3 & 5 \\ 4 & 2 & 1 & 3 \\ 8 & 4 & 7 & 13 \\ 8 & 4 & -3 & -1 \end{bmatrix}$$

- b) Discuss for what values of  $\lambda$  and  $\mu$  the simultaneous equations

$$x + y + z = 6, \quad x + 2y + 3z = 10, \quad x + 2y + \lambda z = \mu$$
 have (i) no solution

(ii) a unique solution (iii) an infinite number of solutions.

(6M)

(OR)

2. Find the eigen values and eigen vectors of matrix  $A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$ .

(12M)

## UNIT - II

3. If  $0 < a < b$ , then prove that  $\frac{b-a}{1+b^2} < (\tan^{-1} b - \tan^{-1} a) < \frac{b-a}{1+a^2}$  and

$$\text{hence show that (ii) } \frac{\pi}{4} + \frac{3}{25} < \tan^{-1} \frac{4}{3} < \frac{\pi}{4} + \frac{1}{6}$$

(12M)

(OR)

4. Obtain the expansion of  $\tan x$  in ascending powers of  $x$  up to the term containing  $x^5$

(12M)

## UNIT - III

5. a) If  $u = x^2 - y^2$ ,  $v = 2xy$  and  $x = r \cos \theta$ ,  $y = r \sin \theta$ , find  $\frac{\partial(u,v)}{\partial(r,\theta)}$ .

(6M)

- b) Show that the rectangular solid of maximum volume that can be inscribed in a sphere is a cube.

(6M)

(OR)

6. In a plane triangle, find the maximum value of  $\cos A \cos B \cos C$ .

(12M)

**UNIT – IV**

7. Change the order of integration in  $I = \int_0^1 \int_{x^2}^{2-x} xy \, dx \, dy$  and hence evaluate the same. (12M)

(OR)

8. Evaluate  $\int_1^e \int_1^{\log y} \int_1^{e^x} \log z \, dz dx dy$ . (12M)

**UNIT – V**

9. Show that  $\beta(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$ . (12M)

(OR)

10. a) Show that  $\beta(m, n) = \int_0^\infty \frac{x^{m-1}}{(1+x)^{m+n}} \, dx$  (6M)

- b) Show that  $\Gamma(n) = \int_0^1 (\log \frac{1}{y})^{n-1} \, dy$  ( $n > 0$ ). (6M)

**Subject Code: 2023102 / R20**

**K.S.R.M COLLEGE OF ENGINEERING, KADAPA  
(AUTONOMOUS)  
MODEL QUESTION PAPER  
FOUR YEAR B. TECH DEGREE EXAMINATIONS  
I B.TECH I SEMESTER REGULAR EXAMINATION  
SUB: CHEMISTRY  
(CSE)**

**Time : 3hrs**

**Max marks :60M**

**Answer any Five questions choosing one question from each unit. (12x5=60M)**

**UNIT-I**

1. (a) Write notes on Schrodinger wave equation (6M)  
(b) Explain Planck's Quantum theory and Heisenberg Uncertainty principle (6M)  
(Or)
2. (a) Outline the postulates of Molecular orbital theory and explain with a simple example. (8M)  
(b) Define Wavelength, Frequency, Amplitude & Wave number. (4M)

**UNIT-II**

3. (a) Explain crystal field theory and write notes on crystal field splitting in octahedral Complexes. (8M)  
(b) Simplify the applications of fullerenes and Carbon nanotubes (4M)  
(Or)
4. (a) Define doping and explain any one type of doping with example. (6M)  
(b) Summarize Band theory of solids. (6M)

**UNIT-III**

5. (a) Define cell potential and derive Nernst equation. (6M)  
(b) Explain Hydrogen-Oxygen fuel cell with neat diagram. (6M)  
(Or)
6. (a) Demonstrate Conductometric titrations of Strong acid Vs Strong base (6M)  
(b) Write short notes on (i) Zinc air battery (ii) Glass electrode. (6M)

#### UNIT-IV

7. (a) Define Chain growth polymerization and explain the mechanism of Cationic polymerization with suitable example. (8M)

(b) Write short notes on Buna-N & Nylon. (4M)

(Or)

8. (a) Illustrate the preparation, Properties and applications of Bakelite (6M)

(b) Discuss about conducting polymers (6M)

#### UNIT-V

9. (a) Interpret Thin-Layer chromatography (8M)

(b) Write notes on Electromagnetic spectrum. (4M)

(Or)

10. (a) Explain Principle and Selection rule for UV-Visible spectroscopy (8M)

(b) Write short notes on Beer Lambert's law (4M)

Question Paper Code: 2024103

College Code: 9Y

**K.S.R.M. COLLEGE OF ENGINEERING: : KADAPA.**

**(Autonomous)**

**I B. Tech I Sem (R20) Model Question paper - MAY/JUNE 2021**

**COMMUNICATIVE ENGLISH**

**(Common to CE, E.E.E& E.C.E)**

**Time: 3 Hrs.**

**Max. Marks: 60**

**Note: Answer all FIVE Units. All questions carry equal marks. (5x12=60)**

**UNIT: 1**

1. A) What is William Hazlitt son's attitude towards his new school as described in "On the Conduct of Life"? 7M
- B) Give the meaning of the idioms and phrases and use them in sentences of your own. 1X5=5M
- i) at the eleventh hour ii) bread and butter iii) man of letters  
iv) take off v) break up.

**OR**

2. A) What is word formation? Discuss various types of word formation? 7M
- B) i) She succeeded in her attempt. (Rewrite the sentence by using adjective of 'succeeded') 1X3=3M
- ii) Respect your parents and teachers. (Rewrite the sentence by using 'respect' as a Noun)
- iii) She works with diligence. (Rewrite the sentence by using Adverb of 'diligence')
- C) i) Give antonyms of the following. ½ X 2 =1M
- a) modest b) prosperity
- ii) Give synonyms of the following ½ X 2=1M
- a) affection b) famous

**UNIT: 2**

3. A) Appreciate the poem **The Brook** written by Alfred Lord Tennyson. 7M
- B) Fill in the blanks with the right verb forms from the verbs given in brackets 1x5= 5M
- a) I \_\_\_\_\_ (attend) the function Yesterday.
- b) Oil \_\_\_\_\_ (float) on water.
- c) Look! The old man \_\_\_\_\_ (cross) the road.
- d) She was taking dinner when cell phone \_\_\_\_\_ (ring).
- e) English \_\_\_\_\_ (be) spoken in many parts of the world.

**OR**

4. A) Make FOUR meaningful sentences on the following pattern.

1x4= 4M

Subject +	Verb +	Object +	To infinitive
They	advised	me	to study well

B) Fill in the blanks with 'A, An or The'

1X3= 3M

- a) He met with .....accident yesterday.
- b) Please give me.....copy of The Times of India.
- c) .....earth revolves round the sun.

C) Fill in the blanks with suitable prepositions

1X5= 5M

- a) Praneeth is playing tennis\_\_\_\_\_ Sunday.
- b) We are going to see my parents\_\_\_\_\_ the weekend.
- c) My friend has been living in Chennai \_\_\_\_\_ 2020
- d) I will have finished this essay \_\_\_\_\_Friday.
- e) Mumbai is famous ——its textile mills.

**UNIT: 3**

5. A) How does Oliver Goldsmith bring out the sufferings of the poor in his essay, 'A City Night Piece?

7M

B) Convert the following sentences as directed.

1X5 = 5M

- a) She told me that the test was difficult.(change into Direct Speech)
- b) She says, "I am a little bit nervous."(change into Indirect Speech)
- c) The teacher said to me, "Shut the door."(change into Indirect Speech)
- d) Karthik asked me why I was late that day. (change into Direct Speech)
- e) She said, "Alas! My brother failed in the test."(change into Indirect Speech)

**OR**

6. A) Convert the following sentences as directed.

1x6 = 6M

- a) Kritika is not chopping vegetables.(change into Passive Voice)
- b)The newspaper has been read by me. (change into Active Voice)
- c)They will post the letter. (change into Passive Voice)
- d) Did she do her duty? (change into Passive Voice)
- e) Let the song be sung by her. (change into Active Voice)
- f) The thief was caught. (change into Active Voice)

B) Convert the following sentences as directed.

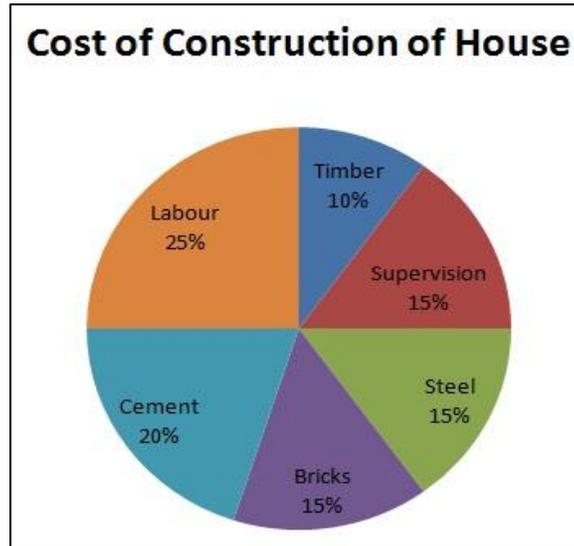
1x6 = 6M

- a).Suraj is the most intelligent of all boys.(change into Positive Degree)
- b) Rose is as beautiful as tulip. (change into Comparative Degree)
- c) No other army in the world is as mighty as Indian army.(change into Superlative Degree)
- d) Very few cities in India are as beautiful as Lucknow.(change into Superlative Degree)
- e) Govind is not the laziest boy in the class.(change into Positive Degree)
- f) I have never met so good a man as he. (change into Comparative Degree)

**UNIT: 4**

7. A) What did you understand in Chetan Bhagath's essay 'Being rich, Being good'? **7M**

B) Convert the following Pie chart texting it verbally. **5M**



**OR**

8. A) **Convert the following sentences as directed.** **1x6 = 6M**

- a) As she won the beauty contest, she cried with joy. (convert into Simple Sentence)
- b) He is too weak to carry the box. (convert into Complex Sentence)
- c) Although they lost the match, they were not disgraced. (convert into Compound sentence)
- d) You must take rich diet, or you will not gain weight. (convert into Simple Sentence)
- e) Because of his illness, he could not join the meeting. (convert into Compound Sentence)
- f) I saw a wounded tiger. (Convert into Complex Sentence)

B) **Add question tags to the following statements.** **1x6 = 6M**

- a) He answered my question. \_\_\_\_\_?
- b) Let us go to movie. \_\_\_\_\_?
- c) I am a student. \_\_\_\_\_?
- d) She will help you. \_\_\_\_\_?
- e) We cannot do this together. \_\_\_\_\_?
- f) We seldom see the dogs. \_\_\_\_\_?

**UNIT: 5**

**9. A) Why is George Orwell’s essay “Politics and the English Language” significant? 7M**

**B) Read the passage given below and answer the questions that follow:**

The culture of nuclear families is in fashion. Parents are often heard complaining about the difficulties in bringing up children these days. Too much of freedom in demand, too much independence; overnight parties; excessive extravagance, splurging pocket money; no time for studies and family - all this is a common cry of such families. Aren't parents, themselves, responsible for this pitiful state? The basic need of a growing youth is the family, love, attention and bonding along with moral values. One should not forget that 'charity begins at home'. Independence and individuality both need to be respected, in order to maintain the sanctity of family.

**Questions:**

1. Mention any two major common concerns of a nuclear family. **1 x 5 = 5 M**
2. Who, according to the passage, are responsible for common concerns?
3. Explain the expression 'charity begins at home'.
4. What are needed to be respected in order to maintain the sanctity of family?
5. Pick out the word from the passage which means 'pious'?

**OR**

**10. A) Correct the following sentences if necessary. 1 x 7 = 7 M**

- a) I told these news to my father.
- b) One should keep his promises.
- c) You have much dresses.
- d) He speaks loudly than his brother.
- e) Amartya Sen is one of the few Indians who has won the Nobel Prize.
- f) I thanked him for what he did.
- g) He worked hard and he failed.

**B) Write the conversation between two friends on making plans for the weekend? 5M**

---

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

**B.Tech – I Sem/ II SEM (R20)**

**L T P C**  
**3 0 0 3**

**COMMUNICATIVE ENGLISH**  
(Common to all branches)

**SYLLABUS**

**Unit 1**

**Lesson: On the Conduct of Life: William Hazlitt**

Grammar and Vocabulary: Parts of Speech; Word formation, synonyms and antonyms; Idioms and Phrases; phrasal verbs.

**Unit 2**

**Lesson: The Brook: Alfred Tennyson**

Grammar and Vocabulary: Sentence structure; articles; Tenses; Prepositions.

**Unit 3**

**Lesson: A City Night Piece - Oliver Goldsmith**

Grammar and Vocabulary: Voice; Reported Speech; Degrees of Comparison, Subject with agreement.

**Unit4**

**Lesson: Being Rich, Being Good - Chetan Bhagat**

Grammar and Vocabulary: Information Transfer; Simple, Compound and Complex sentences; Question Tags

**Unit 5**

**Lesson: Politics and the English Language: George Orwell**

Grammar and Vocabulary: Reading Comprehension; Dialogue Writing; Common Errors.

**Prescribed Text:**

**Language and Life: A Skills Approach- I Edition 2019, Orient Black Swan**

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

**DEPARTMENT OF HUMANITIES AND SCIENCES**

**Panel of Question Paper Setters for B.Tech I Sem. (R20) MAY/ JUNE, 2021**

Common to **C.E, E.E.E & E.C.E** Branches

Sub: **COMMUNICATIVE ENGLISH**

<b>S.No</b>	<b>Name of Examiner/ Paper Setter</b>	<b>Subject with Code</b>	<b>Cell No</b>	<b>Email</b>	<b>Place of Working With Designation</b>
1	Dr.T.V.Surendranath Reddy	1524204	9440361207	Tvsnreddy27@gmail.com	Asso. Prof. Mallareddy Engineering College, Hyderabad
2	Dr. Suneetha Yadav	1524204	9640227708	yadavsuneetha@gmail.com	Dept of English, RGM CET, Nandyal .Kurnool Dist.
3	Dr. M. Ravichand	1554204	988583885	ravichandenglish@gmail.com	Sree Vidya Niketan Engg. College, Rangampet, Tirupati.
4	Dr.M.Sambaiah	1524204	9701342411	English@gmail.com	Asst. Professor of English Dept of H&CS, JNTU Pulivendula
5	Dr.R.L.N.Raju	1524204	07708393748	Raju.rln@vit.ac.in	Asso. Prof. SSL, VIT, Vellore
6	Dr.C.S. Srinivasa	1554204	9848465051	challasyam@mgit.ac.in	MGIT, Hyderabad
7	Dr.B.Mrunalini	1554204	8106306199	Mrunalini.b@bvrit.ac.in	BVRIT, Hyderabad
8	Dr.D. Sudharani	1524204	9849057294	sudharanikaja@yahoo.co.in	VNRVJIET, Hyderabad