MODEL QUESTION PAPER FOUR YEAR B. TECH (R15) DEGREE EXAMINATIONS B.TECH I SEM EXAMINATION SUB : ENVIRONMENTAL STUDIES-1501206 (EEE,ECE & CSE)

Time : 3hrs	Max marks :70
Answer any Five questions choosing one question from each UNIT- I	unit.
1. (a) Define Environment and explain about need for public awareness.	06M
(b).Discuss in detail about scope and importance of environmental studies (or)	08M
2. (a) Write notes on Energy Resources.	06M
(b) Write notes on (i) Causes of deforestration	00111
(ii) Effects of modern agriculture on environment.	08M
UNIT-II	00101
3. (a) Write notes on Foodchains & Foodwebs	07M
(b) Discuss structure and functions of ecosystem.	07M
(or)	07141
4. (a) Write short notes on Biotic and Abiotic components of Ecosystem.	08M
(b) Write notes on characteristic features of Forest ecosystem.	06M
(b) while notes on characteristic reatures of Porest ecosystem.	UUIVI
UNIT-III	
5. (a) Discuss the Hotspots of biodiversity	06M
(b) Discuss different methods of Conservation of biodiversity.	08M
(or)	
6. (a) Write short notes on biodiversity at Global, National and Local level.	07M
(b) Describe different types of threats to biodiversity.	07M
UNIT-IV	
7. (a) Define Air pollution and discuss its control measures.	07M
(b) Write about Solid waste management.	07M
(or)	
8. (a) Define Noise pollution and discuss its causes, effects and control measure	es. 06M
(b) Write notes on (i) Earthquakes (ii) Cyclones	08M
UNIT-V	
9. (a) Write about water shed management leading to water conservation.	07M
(b) Write short notes on causes and effects of Global Warming.	07M
(or)	07112
10. (a) Write about role of Information Technology in Environment and Human	health. 05M
(b) Write notes on a) Family welfare programme.	09M
b) HIV/AIDS	
c) Urbanisation	

Code: 1503103

Time: 3 Hrs. 70 (MODEL PAPER) B.Tech I Semester (R15) Examinations SUBJECT: ENGINEERING GRAPHICS (Common to CSE ,EEE & ECE Branches)

Maximum Marks:

Answer any FIVE questions, choosing ONE question from each unit All questions carry equal marks Unit-I

1. The distance between a fixed straight line and a fixed point is 65mm trace the path of a point P moving in such a way that the ratio of its distance from the fixed point to its distance from the straight line is 2/3. Name the curve; draw a normal and a tangent to the curve at a point on it 50mm from the fixed point.

(OR)

- 2. A circle of 50mm diameter rolls on another circle of 75mm diameter with external contact. Draw the locus of a point on the circumference of the rolling circle for its one complete revolution .Draw a tangent and normal to the curve at a point on it after the rolling circle has made ³/₄th of a revolution.
- 3 a). A point A is 15 mm above H.P. and 20 mm in front of V.P. Another point B is 25 mm behind V.P. and 40 mm below H.P. Draw the projections of A and B, keeping the distance between the projectors equal to 90 mm. Draw straight lines, joining (i) the top views and (ii) the front views.
- (b). Two pegs fixed on a wall are 4.5 meters apart. The distance between the pegs measured parallel to the floor is 3.6 meters. If one peg is 1.5 meters above the floor, find the eight

of the second peg and the inclination of the line joining the two pegs, with the floor.

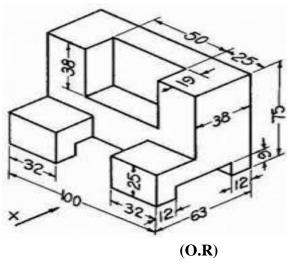
(OR)

- 4. A line PQ 75 mm long has its end P 25 mm above the HP and 15 mm in front of the VP. The end Q is 50 mm above the HP and 60 mm in front of VP. Draw the projections of PQ and find its inclinations with HP and VP.
- 5. Draw the projections of a regular pentagon of 40mm side ,having its surface inclined at 30° to the H.P and a side parallel to the H.P and inclined at an angle of 60° to the V.P (OR)
- 6. A hexagonal pyramid with side of base 30 mm long and height 80 mm has one of its triangular faces perpendicular to H.P. and inclined at 45° to V.P. The base side of this triangular face is on H.P. Draw its projections.
- 7. A cylinder of 45 mm diameter and 70 mm long is resting on one of its bases on HP. It is cut by a section plane inclined at 60° to HP and passes through the point of the axis at 15mm from one end. Draw the three views of the solid and show the true shape of the section.

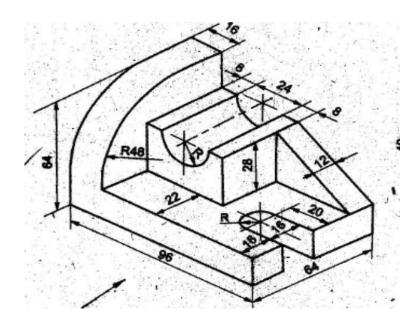
(OR)

8. A pentagonal pyramid with edge of base 25mm and axis 65 mm long is resting on H.P on its base with an edge nearer to the observer ,parallel to V.P It is cut by a section plane ,inclined at 60° to V.P 6 mm from the axis. Draw the projections and obtain the true shape of the section.

9. Draw front view, top view and side view of the following figure.



10. Draw front view, top view and right side view of the following figure.



(MODEL PAPER)

Code: 1503105

B.Tech I Year I Semester (R15) Supple. Examinations, 2018 SUBJECT: ENGINEERING DRAWING – I (Common to Civil & Mechanical Engineering Branches)

Time: 3 Hrs.

s. Maximum Marks: 70 Answer any FIVE questions, choosing ONE question from each unit All questions carry equal marks

UNIT-I

1. Construct an ellipse, with distance of the focus from the directrix as 30mm and eccentricity as 3/4. Also draw the tangent and normal to the curve at a point 40 mm from the focus.

(**OR**)

2. A thread of 165mm length is wound round a circle of 40mm diameter. Trace the path of end point of the thread. Draw a tangent and normal to the curve at a point 80mm from the center of the circle.

UNIT-II

- 3(a). A point A is 15 mm above H.P. and 20 mm in front of V.P. Another point B is 25 mm behind V.P. and 40 mm below H.P. Draw the projections of A and B, keeping the distance between the projectors equal to 90 mm. Draw straight lines, joining (i) the top views and (ii) the front views.
- (b). Two pegs fixed on a wall are 4.5 meters apart. The distance between the Pegs measured parallel to the floor is 3.6 meters. If one peg is 1.5 meters. Find the height of the second peg and the inclination of the line joining above the floor, the two pegs, with the floor.

(OR)

4. A line PQ 75 mm long has its end P 25 mm above the HP and 15 mm in front of the VP. The end Q is 50 mm above the HP and 60 mm in front of VP. Draw the projections of PQ and find its inclinations with HP and VP.

UNIT-III

5. A semi-circular plate of 80 mm diameter has its straight edge on V.P. and inclined at 30^{0} to H.P., while the surface of the plate is inclined at 45^{0} to V.P. Draw the projections of the plane .

(**OR**)

6. A rectangular plane ABCD of size 100 x 60 is inclined to V.P. by an angle of 45^{0} ; longer edge of which is making an angle of 30^{0} with H.P. Draw the projections of the plane by using auxiliary plane method.

UNIT-IV

7. A hexagonal pyramid with side of base 30 mm long and height 80 mm has one of its triangular faces perpendicular to H.P. and inclined at 45⁰ to V.P. The base side of this triangular face is on H.P. Draw its projections.

(OR)

8. A tetrahedron of 30 mm side is resting with one of its edges on H.P. The edge on which it rests is inclined at 45° to V.P. and a face containing that edge is inclined at 30° to H.P. Draw the projections of the solid.

UNIT-V

9. A cube of 50 mm edge is resting on H.P. on one of its faces, with a vertical face inclined at 30⁰ to V.P. It is cut by a section plane, perpendicular to V.P. and inclined at 45⁰ to H.P. The section plane intersects the axis at 45 mm from the base. Draw the projections.

(**OR**)

10. A cone with diameter of base 50 mm and axis 60 mm long is resting on its base on H.P. It is cut by a section plane inclined at 45° to HP and passing through the axis point 30 mm above the H.P. Draw the projections of the cut solid and obtain the true shape of the section.

Model Question Paper

(1505105) PROGRAMMING IN C

B.Tech. I Semester (CSE) (R15) Degree Examinations

Time: 3 Hrs	(Common to ECE, EEE & CSE)	Max.Marks:70
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Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks.

UNIT-I

1.	a) Explain about computer system.	(7M)
	b) What is flowchart? Explain different symbols in flowchart OR	(7M)
2.		(7M)
	with an examples.	(7M)
	UNIT-II	(7112)
3.	a) Explain the two way selection(if, if-else, nested if-else) in C	
	language with syntax.	(7M)
	b) Explain about assignment operator and size of operator, Coma-	
	operator and relational operator in C.	(7M)
	(OR)	
4.	a) Explain the multi way selection (Switch and else if ladder) in C	
	language with syntax and example.	(7M)
	b) Design and develop C program to read a year as an input and	
	find whether it is a leap year or not also consider end of the	
	centuries.	(7M)
	TINITA TT	
5	UNIT-III	
э.	a) Explain about while, for and do while loops in C with syntax and	(7M)
	example. b) Write a C program to generate all the prime numbers within a	(711)
	given range.	(7M)
	(OR)	(7141)
6	a) What recursive function? Write a C program to find factorial	
0.	given number using recursive function.	(7M)
	b) Explain the following basic function designs	(7114)
	i) void function without parameters	
	ii) void function with parameters.	(7M)
	UNIT-IV	()
7.	a) Define array. Explain declaration and initialization of one and	
	two dimensional arrays with an example.	(7M)
	b) Write a C program to sort given list of numbers using bubble	. ,
	sort.	(7M)

B.Tech I Sem (R15) Model Question paper Mathematics – I

(Common to All Branches)	(Common	to	All	Branches)
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Time: 3 Hrs.	Max Marks : 70
Note : Answer any FIVE questions by choosing one from each unit. All questions carry equal marks.	
UNIT - I	
1 a) Solve $(1+y^2)dx = (\tan^{-1} y - x)dy$	(7M)
b) Solve $(x^2y-2xy^2)dx - (x^3 - 3x^2y)dy = 0$	(7M)
(OR)	
2 a) Find the orthogonal trajectories of a system of confocal and coaxial parabola	s. (7M)
b) A body originally at 80 [°] c cools down to 60 [°] c in 20 minutes, the temperature being 40 [°] c. What will be the temperature of the body after 40 minutes from	
UNIT – II	
3 Solve $(D-2)^2 y = 8(e^{2x} + \sin 2x + x^2)$	(14M)
(OR)	
4 Solve $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} + y = e^x$. logx by the method of variation of parameters.	(14M)
UNIT – III	
5 a) Using Maclaurin's series, expand $tan x$ upto the terms containing x^5 .	(7M)
b) If $u = x^2 - y^2$, $v = 2xy$ and $x = r \cos\theta$, $y = r \sin\theta$, find $\frac{\partial(u,v)}{\partial(r,\theta)}$	(7M)
(OR)	
6 A rectangular box open at the top is to have volume of 32 cubic ft. Find the dir the box requiring least material for its construction.	nensions of (14M)
UNIT – IV	
7 a) Show that the radius of curvature at any point of the cycloid	
$x = a (t + sint), y = a (1 - cost)$ is $4a cos(\frac{t}{2})$.	(7M)
b) Find the coordinates of the centre of curvature at any point of the parabola	$v^2 = 4ax.$ (7M)
8 Trace the curve $y^2(x-a) = x^2(x+a)$ (OR)	(14M)
	()
9. Change the order of integration and hence evaluate $\int_0^{4a} \int_{x^2}^{2\sqrt{ax}} dy dx$	(14M)
(OR)	
10. Evaluate $\int_0^1 \int_0^{\sqrt{(1-x^2)}} \int_0^{\sqrt{(1-x^2-y^2)}} xyz dx dy dz$	(14M)

— ·	(Common to EEE, ECE & CSE Branches)	1
-	me: 3 Hrs. Max. Ma	arks : 70
No	ote : Answer any FIVE questions by choosing one from each unit.	
	All questions carry equal marks.	
1		
1.	(a) Prove that $\nabla r^n = nr^{n-r}\bar{r}$, where $\bar{r} = x\bar{\iota} + y\bar{j} + z\bar{k}$.	(7M)
	(b) Show that the vector $(y + z)\overline{i} + (z + x)\overline{j} + (x + y)\overline{k}$ is irrotational and fin potential. (OR)	nd its scalar (7M)
2.	Verify Green's theorem for $\int_{c} [(xy+y^2)dx+x^2dy]$, where C is bounded	d by $y = x$
	and $y = x^2$	(14M)
	unu y = x	(1411)
	UNIT – II	
3.		(7M)
	(b) Evaluate $\int_0^{\infty} t e^{-3t} \sin t dt$	(7M)
	(OR)	(, _, _)
4	Find the Laplace transform of the function $f(t) = \begin{cases} sinwt, & 0 < t < \frac{\pi}{w} \\ 0, & \frac{\pi}{v} < t < \frac{2\pi}{w} \end{cases}$	(14M)
••	$\begin{pmatrix} 0 & \frac{\pi}{m} < t < \frac{2\pi}{m} \\ \end{pmatrix}$	(1111)
	UNIT – III	
5.	a) Find the inverse Laplace transform of $\frac{s+2}{s^2-4s+13}$	(7M)
	$s^2 - 4s + 13$	
	b) Apply convolution theorem to evaluate $L^{-1} \left[\frac{s^2}{(s^2 + a^2)(s^2 + b^2)} \right]$	(7M)
	(OR)	
6.	Solve $(D^3-3D^2+3D-1)y = t^2e^t$ given that $y(0)=1$, $y^1(0)=0$, $y^{11}(0) = -2$.	(14M)
7	UNIT – IV Find a Fourier series to represent $x - x^2$ from $x = -\pi t o x = \pi$.	(14M)
7.	(OR)	(1411)
8	a) Express $f(x) = x$ as half range sine series in $0 < x < 2$,	(7M)
0.	b) Obtain the Fourier expansion of $x \sin x$ as a cosine in $(0, \pi)$.	(7M)
	UNIT - V	/ 141)
9.	a) Form the partial differential equation by eliminating the arbitrary functions fr	om
).	z = f(x + at) + g(x - at)	(7M)
		(/111)
	b) Using the method of separation of the variables, solve $\frac{\partial u}{\partial x} = 2 \frac{\partial u}{\partial t} + u$, where u	$(x, 0) = 6 e^{-3x}$
	$\partial_x = \partial_t + u$, where u	
	(OR)	(7M)
10		

10. A tightly stretched string with fixed end points x = 0 and x = l is initially in a position given by $y = y_0 \sin^3(\frac{\pi x}{l})$. If it is released from rest from this position, find the displacement y(x, t). (14M)

B.Tech I Sem (R15 - UG) Model Question Paper Sub: <u>Engineering Physics</u> (Common to CE & ME)

	Max.
Marks: 70	
Answer any <u><i>FIVE</i></u> questions choosing <i>one</i> question from each unit.	
UNIT – I	
1. a) Describe Fraunhofer diffraction due to grating (N-parallel slits) .	10M
b) A Monochromatic light of wavelength 5500 A^0 is incident on a single slit	4 M
of width 0.3mm and gets diffracted. Then find the diffraction angle of first	
Minima.	
(Or)	
2. a) Explain the construction and working of He-Ne Laser.	8 M
b) Explain Fibre optic Communication system	6 M
UNIT – II	
3. a) Explain the crystal structure of F.C.C and B.C.C.	10 M
b) Write any four properties of Ultrasonics.	4 M
(Or)	
4. a) Explain the production of ultrosonics by piezoelectric method.	8 M
b) Describe Debye-Scherrer method.	6 M
UNIT – III	
a) What are de'Broglie waves. Write their properties	4 M
	4 M 10 M
 a) What are de'Broglie waves. Write their properties b) Derive Schrodinger's time independent wave equation. (or) 	
b) Derive Schrodinger's time independent wave equation. (or)	10 M
 b) Derive Schrodinger's time independent wave equation. (or) 6. a) Derive an expression for electrical conductivity on the basis of Drude and London Lon	10 M
 b) Derive Schrodinger's time independent wave equation. (or) 6. a) Derive an expression for electrical conductivity on the basis of Drude and Lor method. 	10 M
 b) Derive Schrödinger's time independent wave equation. (or) 6. a) Derive an expression for electrical conductivity on the basis of Drude and Lor method. b) Find the relaxation time of conduction electrons in a metal contain 6.5X10²⁸ 	10 M
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 b) Derive Schrödinger's time independent wave equation. (or) 6. a) Derive an expression for electrical conductivity on the basis of Drude and Lor method. b) Find the relaxation time of conduction electrons in a metal contain 6.5X10²⁸ electrons per m³. The resistivity of the metal is 1.5X10⁻⁸ ohm-m UNIT-IV 7. a) Explain hysteresis of ferromagnetic materials. b) Describe BCS Theory of superconductivity. 	10 M rentz 10 M 4M
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10. a) Describe the synthesis of nanomaterials by Chemical vapour deposition method. 10 Mb) Explain about any tow properties of nanomaterials.4 M

K.S.R.M CO LLEGE OF ENGINEERING(AUTONOMOUS)::KADAPA MODEL QUESTION PAPER FOUR YEAR B. TECH (R15) DEGREE EXAMINATIONS B.TECH I SEM EXAMINATION SUB : ENGINEERING CHEMISTRY-1523103 (CIVIL & MECH)

Time : 3hrs	(CIVIL & MECH)	Max marks :70
Answer any	Five questions choosing one question from each u UNIT- I	nit.
1. (a) Define hardness of wa	ter.Calculate temporary,permanent and total hardness	s of water
0	ing in ppm CaSO4= 7.8, MgSO4= 9.4, Ca(HCo3)2= 5.86	
(b) Write notes on conver	sion of hard water to soft water by Ion exchange proc (or)	cess. 06M
2. (a) Write notes on (a)Prim	ning & Foaming (b) scale and sludge.	08M
(b) Estimate the amount o Winkler's method.	of Dissolved Oxygen present in given water sample b	у 06М
	UNIT-II	
3. (a) i. Vulcanization of R	Rubber	
ii. Classification of Pe	-	08M
(b) Compounding of pla		06M
	(or)	
4. (a) Define addition polym mechanism.	nerization?Explain the free radical polymerization rea	action with 05M
(b) Write short notes on p	preparation, properties & applications of	
	(a) Silicone rul	
	(b) Bakelite	09M
	UNIT-III	
5. (a) Write in detail about C		07M
(b) Explain various factor	s influencing corrosion of metal.	07M
	(or)	0014
6. (a) Write notes on (a) Dry		08M
(b) Discuss the mechanisr	n of Dry corrosion.	06M
	UNIT-IV	
	& determine the calorific value of solid fuels by borr	
Calorimetry.		07M
(b) Describe the method of	employed for refining of crude oil with suitable diagn (or)	ram. 07M
	employed for manufacture of Synthetic Petrol.	07M
(b) Define lubricant and e	explain the properties of lubricants in detail. UNIT-V	07M
9. (a) Write 12 principles of	f green chemistry and its applications.	07M
(b) Write short notes on fl	luorescence and phosphorescence. (or)	07M
10. (a) Define catalyst. Expl	ain types of catalysis and its applications.	06M
(b) (i) Laws of Photoche		08M

I B.Tech I Sem (R15) Model Question paper ENGLISH - I (Common to All Branches)

Time: 3 Hrs.	Max Marks : 70
Note : Answer any FIVE questions. All questions carry equal marks.	

- I. "A humorous person or situation is amusing and makes us laugh' What makes 'An Astrologer's day' a humorous story? 14M
- II. Why does Kipling advise against making 'thoughts' your aim? 14M

14M

III. Describe the versatile genius of Visweswariah.

IV. Read the following passage and answer the questions:

One of the main reasons why wrong ideas and useless practices can grow up is ignorance. Among primitive tribes today, as was the case too in prehistoric times, there is hardly any scientific knowledge, everything is mysterious. The sun rises and sets and the moon changes; but people have no idea why, or what are the relations of heavenly bodies to the earth. No one knows anything about the natural causes of rain or drought, storms or earthquakes, famine or disease. Thus everything is put down to mysterious influences by magic or by good and bad spirits. Such ideas cannot very well be called superstitious so long as no better explanation is available. But reason may show that they are false; and finally when scientific knowledge demonstrates the way things really work the ideas of magic or spirit-influence can be seen to be mere superstitious. So, as science progresses, superstition ought to grow less. On the whole, that is true. But it is surprising how superstitious linger on. If we are tempted to look down on savage tribes and other nations for holding such ideas, we should remember that even today, among the most civilized nations, a great many equally stupid superstitious exist and are believed in by a great many people. It is worth making a list of the superstitious which you know about. Some people will not sit down thirteen at table; others will not light three cigarettes from one match or do not like to start anything important on a Friday.

Questions

- (a) To whom did the primitive tribes attribute the natural disasters? 2x7=14
- (b) How are superstitious proved wrong?
- (c) What is the relationship between Science and Superstition?
- (d) Are superstitious limited to primitive tribes?
- (e) Mention one of the superstitious practiced today.
- (f) Give a suitable title to the above passage.
- (g) Give the meaning of 'Put down' and frame a sentence of your own.

V. Expand any <u>TWO</u> of the following into a paragraph.

- 7x2=14
- (a) All that glitters is not gold

(i) I am an Engineer

- (b) A rolling stone gathers no moss
- (c) Failures are stepping stones to success.

VI. (a) Write the phonetic transcription of the following sentences. 2X2 = 4M

(b) Write the meanings of any <u>FIVE</u> of the following using them in sentences of your own 5X 2 = 10M

(ii) He is honest and sincere

- (i) To nip in the bud(ii)To win laurels(iii)To break out(iv) Panacea(v)Antidote(vi)Mortuary
 - (vii) Bonafide (viii) Sine die

VII. Answer any <u>FOURTEEN</u> of the following as directed

- (1) Who taught you English? (into passive)
- (2) English is spoken all over the world (into active)
- (3) Bring that file (Into passive)
- (4) Teacher said to students, "oil floats on water" (into indirect)
- (5) She told me that she was going to finish the work then. (into direct)
- (6) Hari said, "Did you see the picture yesterday"? (into indirect)
- (7) The doctor advised the patient to take rest. (into direct)
- (8) No other building is as wonderful as Tajmahal [change it Comparative degree]
- (9) A wise enemy is better than a foolish friend [change into Positive degree]
- (10) This tree is older than many other trees in the garden (into superlative)
- (11) If you work hard, you will get promotion. (into simple)
- (12) He is too dull to understand [into Complex]
- (13) You are strong, I am equally strong [use as---as)]
- (14) Besides being a hard worker, he is intelligent [into compound]
- (15) I was doubtful whether it was you [into Negative]
- (16) Everybody knows about man's mortality [into Interrogative]
- (17) I shall not forget you [into Affirmative]

VIII. Correct any <u>FOURTEEN</u> of the following sentence if necessary

14X1=14

- (1) He has two sister-in-laws
- (2) Your service to the society is greater than me
- (3) A.P.J. Abdul Kalam is one of the most greatest philanthropists
- (4) She is one of those who likes classical dance.
- (5) Ten projects were accepted and one rejected.
- (6) He behaved cowardly before his opponent.
- (7) He is always for his boss to get promotion.
- (8) He worked hard and failed.
- (9) He returned the book back to me.
- (10) You worked hard, Isn't it?
- (11) If you ask me I would oblige
- (12) I am going to school everyday
- (13) The teacher teached me a lesson
- (14) One of my book has been stolen.
- (15) South Indians prefer coffee than tea
- (16) I have not read the book from 2008
- (17) She is my cousin sister

I B.Tech I Sem (R15) Model Question paper HUMAN VALUES AND PROFESSIONAL ETHICS (CE&ME)

Time : 3 Hrs.	Max.Marks : 70
Answer the following questions. Each question carries equal marks	
 Answer any SEVEN of the following a) Define Engineering Ethics. b) state three types of Inquiry. c) State any two examples of improved safety. d) Define Collegiality. e) Name any four "employee rights" f) What is 'patent'? g) What is moral dilemma? h) Accountability i) Hired guns j) Copy rights 	7X2 = 14 M
2. a) Briefly describe the use of ethical theories.	1X14 =14 M
 (or) b) Explain Carol Gilligan's theory on moral autonomy. 3. a) i) What are the limitations of codes of ethics? ii) Write short note on 'Industrial Standards'. (or) b) i) Write a short note on Regulated society ii) What are the general features of morally responsible engineers? explain briefly any two. 	7X2 = 14 M
4. a) Discuss various methods of reducing risks.(or)	1X14 = 14 M
 b) Explain the concept of Risk – Benefit Analysis. 5. a) What is Indian scenario in accordance with 'Intellectual Property Righ (or) b) Write an essay on Computer Ethics 	nts, IPR'? $1X14 = 14 \text{ M}$