



## College of Computing Sciences and Information Technology

Delhi Road, Moradabad-244001 (U.P.)  
First Class Test Odd Semester 2022-23

Program	B.Tech.		
Branch	All Branches (FOE & CCSIT)	Semester	I
Course Code	TGE102	Course Title	English Communication I
Duration	90 Minutes	Max Marks	30

\*Bloom Level {1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating}

Attempt all questions.

1.	Answer any five questions	Max Marks	Unit no.	Bloom Level*	CO
a.	Define the term <i>Communication</i> .	(2)	1	2	1
b.	What is the process of communication?	(2)	1	2	1
c.	Name the forms of communication with their types.	(2)	1	2	1
d.	Write the levels of communication.	(2)	1	2	1
e.	Describe two-two advantages and limitations of written communication.	(2)	1	2	1
f.	What do you mean by grapevine communication?	(2)	1	2	1
g.	How does a language work as a tool of communication?	(2)	1	2	1
h.	What is the difference between <i>Homophones</i> and <i>Homonyms</i> ? Give one example for each.	(2)	2	2	1
2.	(a) Elucidate the barriers to effective communication.	(10)	1	2	1
OR					
	(b) What are 7 C's in communication? Explain.		1	2	1
3.	(a) Use the following pair of words in your own sentences to clarify their meaning: (i) Weak, Week (ii) Accept, Except (iii) Son, Sun (iv) brake, break (v) see, sea	(10)	2	3	1
OR					
	(b) Write one antonym of each of the following words: (i) Ancient (ii) Evil (iii) bright (iv) strong (v) active (vi) synonym (vii) accept (viii) thick (ix) cool (x) after		2	3	1



College of Computing Sciences and Information Technology  
Bagarpur, Delhi Road, Moradabad-244001 (U.P.)

I Internal Class Test

Programme Name: B TECH (IBM/TCS/AI/Inniture)

Year: I	Academic Year: 2022-23	Semester: I
Course Code: EAS111	Course Name: Basic Electronics	
Duration: 90 Minutes	Max. Marks: 30	

\*Bloom's Taxonomy Level(BTL) {1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating}

### Short Questions:

1. Attempt any five questions

(2 X 5=10  
Marks).

Bloom's T

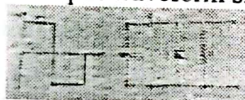
(BTL-2)

(BTL-2)

(BTL-2)

(BTL-3)

(BTL-3)



(BTL-3)

(BTL-2)

(BTL-3)

### Long Questions:

(10 Marks)

(BTL-4)

OR

(BTL-3)

(BTL-3)

OR

(BTL-3)





College of Computing Sciences and Information Technology

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First Internal Class Test  
B.TECH (AI ,CS,IBM, TCS,IN), B.Sc.(H) CS

Year: I	Academic Year: 2022-23	Semester: I
Course Code: TMU-101	Course Title: Environmental Studies	
Duration: 90 minutes		Max. Marks: 30

NOTE: ALL QUESTIONS ARE COMPULSORY.

1. Short Questions: Attempt any five.

(5\*2 = 10 Marks)

- Define system, surrounding and universe. (Remembering)
- Explain multidisciplinary nature of Environmental studies? (Understanding)
- Define Active and Passive nature of environment, with suitable examples. (Remembering)
- What is ecosystem? Explain with suitable examples. (Understanding)
- Explain ecosystem through energy flow diagram from sun to earth. (Understanding)
- Explain the basic need of food chain. Explain with neat sketch the utility of food chain. (Understanding)
- What is the importance of Food Web? How it is differ from food chain? (Understanding)
- Explain the basic laws of thermodynamics? (Understanding)

Long Questions:

(10 Marks Each)

- What is sustainability? Explain concept of sustainability and sustainable development? (Understanding)

OR

Explain ecological pyramid and ecological succession with suitable flow diagram. How they affect the environment, universe and environment? (Understanding)

- Describe the Biotic and Abiotic components of ecosystem with suitable examples. (Understanding)

OR

Briefly explain following ecosystems

- Aquatic ecosystem
- Grass land ecosystem

(Understanding)

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II Internal Class Test

Programme Name: B.TECH.(IBM/TCS/AI/I NURTURE) - **ALL**

Year: I	Academic Year: 2022-23	Semester: I
Course Code: EEC111	Course Name: <b>Basic Electronics Engineering</b>	
Duration: 90 Minutes		Max. Marks: 30

\*Bloom's Taxonomy Level(BTL) {1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating}

**Short Questions:**

1. Attempt any five questions

(2 X 5=10  
Marks).

Bloom's Taxo  
(BTL-2)



What is the major difference between a bipolar and a unipolar device?

B.

Why is MOSFET called sometimes IGFET?



Derive the relation between  $\alpha$  and  $\beta$ .

D.

What is the need for biasing a transistor?

E.

Define pinch-off voltage in JFET.

F.

What do you understand by thermal runaway in transistor?

G.

What do you mean by operating point of transistor?

H.

Why the width of the base region is kept very small in transistor as compare to other regions?

(BTL-2)

**Long Questions:**

2. Explain the working of n-p-n transistor with the help of a neat and clean diagram.

(10 Marks Each)  
(BTL-2)

OR

Draw the circuit diagram and explain the CE configuration of BJT. Also draw its input & output characteristics, indicate different regions of operation

(BTL-2)

3. Draw the structure of JFET and explain its principle of operation with a neat and clean diagram. Also sketch its V-I characteristics.

(BTL-3)

OR

Draw and explain the operation of the enhancement type MOSFET with output characteristic. How it is different from depletion type MOSFET.

(BTL-3)



## Faculty of Engineering & Computing Sciences

Delhi Road, Moradabad-244001 (U.P.)

Second Class Test Odd Semester 2022-23

Program	B.Tech (AI)		
Branch	AI	Semester	I
Course Code	EAS116	Course Title	Engineering Mathematics-I
Duration	90 Minutes	Max Marks	30

\*Bloom Level {1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating}

Attempt all questions.

1. Answer any five questions

Max Marks    Unit no.    Bloom Level\*    CO

a. State Leibnitz's theorem for  $n^{\text{th}}$  derivative of product of two functions. (2) 3 2 3

b. State Euler's theorem for homogeneous function. (2) 3 2 3

c. If  $y = a \cos \log x + b \sin \log x$ , then show that  $x^2 y_2 + x y_1 + y = 0$ . (2) 3 3 3

d. If  $u = e^{xyz}$ , then find the value of  $\frac{\partial^3 u}{\partial x \partial y \partial z}$ . (2) 3 3 3

e. Show that Beta function is Symmetric. (2) 4 2 4

f. Evaluate  $\int_0^x \frac{x^8(1-x^6)}{(1+x)^{24}} dx$ . (2) 4 5 4

g. Show that  $\int_{-\infty}^{\infty} \frac{1}{x^2+1} dx = \pi$ . (2) 4 3 4

h. Evaluate  $\int_0^1 \int_1^2 \int_2^3 xyz dx dy dz$  (2) 4 5 5

2. a. If  $u = \log \left[ \frac{x^8+y^8+z^8}{x+2y+3z} \right]$ , prove that  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z} = 7$ . (10) 3 3 3

OR

b. If  $x = u(1-v)$ ,  $y = uv$ , Prove that  $\frac{\partial(x, y)}{\partial(u, v)} \times \frac{\partial(u, v)}{\partial(x, y)} = 1$ . 3 3 4

3. a. Evaluate  $\iiint (x+y+z) dx dy dz$  over the tetrahedron  $x = 0, y = 0, z = 0$  and  $x+y+z = 1$  (10) 4 5 4

b. Evaluate  $\int_1^2 \int_0^x \frac{1}{x^2+y^2} dx dy$ . (10) 4 5 4

OR 2

$$\left( 1 - (x+y)^2 \right)^2$$

$$1 + (x+y)^2 - 2(x+y)$$



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Second Internal Class Test  
B.Tech(~~IT~~) - ALL

Year: I	Academic Year: 2022-23	Semester: I
Course Code: TMU-101	Course Title: Environmental Studies	
Duration: 90 minutes		Max. Marks: 30

NOTE: ALL QUESTIONS ARE COMPULSORY.

Short Questions: Attempt any five.

(5\*2 = 10 Marks)

1.
  - A. Define Environmental pollution?(Remembering)
  - B. Write cause of Deforestation?(Understanding)
  - C. Explain effect of Land Degradation?(Remembering)
  - D. Write different air pollutants? (Understanding)
  - E. Write different greenhouse gas and ozone depleting substance? (Understanding)
  - F. What is photochemical smog? (Understanding)
  - G. Write the name of different Environmental Protection Act?(Understanding)
  - H. Explain greenhouse effect?(Understanding)

Long Questions:

(10 Marks Each)

2. What is Biodiversity? write different type of Biodiversity?(Understanding)

OR

Define Air pollution? Write its cause effect and control also?(Understanding)

3. Explain Global Warming? Write its cause effect and control also?(Understanding)

OR

Briefly explain following Protocol?

- a) Kyoto Protocol
- b) Montreal protocol(Understanding)



## College of Computing Sciences and Information Technology

Delhi Road, Moradabad-244001 (U.P.)

Second Class Test Odd Semester 2022-23

Program	B.Tech., B.Sc.		
Branch	All	Semester	I
Course Code	TGE 103	Course Title	English Communication -I
Duration	90 Minutes	Max Marks	30

\*Bloom Level (1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating)

Attempt all questions.

1.	Answer any five questions	Max Marks	Bloom Level*
a.	What is meant by Listening?	(2)	4
b.	Differentiate between Listening and Hearing.	(2)	2
c.	Describe the process of listening.	(2)	2
d.	Circle the subject and underline the predicate. i) <u>Ritu</u> sings a song. ii) <u>Boys</u> are not doing their homework.	(2)	3
e.	What are the advantages of effective listening?	(2)	2
f.	What are Ted talks?	(2)	2
g.	One word substitution 1. Grass eating animals. <u>herbivores</u> 2. A study of animals. <u>zoology</u>	(2)	1
h.	Re arrange the sentence in its proper format i) Quickly eats Shiv carrots. ii) Student John smart is a	(2)	3
2.	Describe the barriers of listening.	(10)	5
	OR		
	Underline the common error and replace it with correct word 1. <u>He</u> is a Indian. 2. Should you prefer coffee or tea? 3. Take out the pen <u>for</u> my bag. 4. He is <u>best</u> than me. 5. He came to see me <u>tomorrow</u> . 6. Neither mom nor dad <u>are</u> coming. 7. I <u>go</u> to the market yesterday. 8. <u>What</u> will you come home? 9. 2000 rupees <u>are</u> a high amount. 10. <u>Would</u> I sit with you?	(10)	3
3.	Complete the following sentences with the correct form of tenses as directed; i) I am <u>turning</u> the table. (turn) (present continuous) ii) My sister <u>is</u> a doctor. (simple Present) <u>was</u> iii) Rachna <u>cooks</u> food. (cook) (Present Perfect) iv) They <u>work</u> for seven hours. (work) (Present Perfect Continuous) v) The architect <u>built</u> a house. (build) (simple present) vi) The teacher <u>opened</u> the door. (open) (simple past) vii) He <u>was playing</u> cricket. (play) (past continuous) viii) They <u>will read</u> everything till night. (read) (simple future) ix) I <u>did</u> my homework long back. (do) (past perfect) x) Tony <u>will come</u> for dinner tonight. (come) (Future continuous)	(10)	3
	OR		
	Explain the types of listening skills.	(10)	2