

Sub- Computer Application
Branch - Civil & Electrical Engg.

1. Answer all question. [4x4]

a) What is VIRUS ?

b) What is Network Topology ?

c) What is internet & their service ?

d) Difference between Algorithm and Flowchart.

2. Answer any two. [2x2]

a) Difference between File & Folder.

b) What is Array ?

c) What is Recursion ?

Sub- Computer Application
Branch - Civil & Electrical Engg.

1. Answer all question. [4x4]

a) What is VIRUS ?

b) What is Network Topology ?

c) What is internet & their service ?

d) Difference between Algorithm and Flowchart.

2. Answer any two. [2x2]

a) Difference between File & Folder.

b) What is Array ?

c) What is Recursion ?

Sub- Computer Application
Branch - Civil & Electrical Engg.

1. Answer all question. [4x4]

a) What is VIRUS ?

b) What is Network Topology ?

c) What is internet & their service ?

d) Difference between Algorithm and Flowchart.

2. Answer any two. [2x2]

a) Difference between File & Folder.

b) What is Array ?

c) What is Recursion ?

Sub- Computer Application
Branch - Civil & Electrical Engg.

1. Answer all question. [4x4]

a) What is VIRUS ?

b) What is Network Topology ?

c) What is internet & their service ?

d) Difference between Algorithm and Flowchart.

2. Answer any two. [2x2]

a) Difference between File & Folder.

b) What is Array ?

c) What is Recursion ?

Sub- Engg. Physics
Branch - Mech. & Auto Engg.

1. Answer all questions. [2x5]
- a) Define two specific heat of gas.
- b) Define mechanical equivalent of heat.
- c) What is doppler's effect ?
- d) Wht is co-efficient of thermal conductivity ? Write its unit & dimension.
- e) What is snell's law ?

2. Derive the relation between α and γ . [5]
3. A piece of cu-wire has a length of 100cm at 0°C. find its length in S.I. unit at 100°C if $\gamma = 51 \times 10^{-6}/0_c$. [5]

Sub- Engg. Physics
Branch - Mech. & Auto Engg.

1. Answer all questions. [2x5]
- a) Define two specific heat of gas.
- b) Define mechanical equivalent of heat.
- c) What is doppler's effect ?
- d) Wht is co-efficient of thermal conductivity ? Write its unit & dimension.
- e) What is snell's law ?

2. Derive the relation between α and γ . [5]
3. A piece of cu-wire has a length of 100cm at 0°C. find its length in S.I. unit at 100°C if $\gamma = 51 \times 10^{-6}/0_c$. [5]

Sub- Engg. Physics
Branch - Mech. & Auto Engg.

1. Answer all questions. [2x5]
- a) Define two specific heat of gas.
- b) Define mechanical equivalent of heat.
- c) What is doppler's effect ?
- d) Wht is co-efficient of thermal conductivity ? Write its unit & dimension.
- e) What is snell's law ?

2. Derive the relation between α and γ . [5]
3. A piece of cu-wire has a length of 100cm at 0°C. find its length in S.I. unit at 100°C if $\gamma = 51 \times 10^{-6}/0_c$. [5]

Sub- Engg. Physics
Branch - Mech. & Auto Engg.

1. Answer all questions. [2x5]
- a) Define two specific heat of gas.
- b) Define mechanical equivalent of heat.
- c) What is doppler's effect ?
- d) Wht is co-efficient of thermal conductivity ? Write its unit & dimension.
- e) What is snell's law ?

2. Derive the relation between α and γ . [5]
3. A piece of cu-wire has a length of 100cm at 0°C. find its length in S.I. unit at 100°C if $\gamma = 51 \times 10^{-6}/0_c$. [5]

Sub- Communicative English
Branch - All

Answer all the questions.

1. Write a note on features of communication ? [5]
2. What is Barriers to communication ? Explain language & semantic barriers ? [5]
3. Write a note on effective communication ? [5]
4. Write a detailed note on psychological barriers ? [5]

Sub- Communicative English
Branch - All

Answer all the questions.

1. Write a note on features of communication ? [5]
2. What is Barriers to communication ? Explain language & semantic barriers ? [5]
3. Write a note on effective communication ? [5]
4. Write a detailed note on psychological barriers ? [5]

Sub- Communicative English
Branch - All

Answer all the questions.

1. Write a note on features of communication ? [5]
2. What is Barriers to communication ? Explain language & semantic barriers ? [5]
3. Write a note on effective communication ? [5]
4. Write a detailed note on psychological barriers ? [5]

Sub- Communicative English
Branch - All

Answer all the questions.

1. Write a note on features of communication ? [5]
2. What is Barriers to communication ? Explain language & semantic barriers ? [5]
3. Write a note on effective communication ? [5]
4. Write a detailed note on psychological barriers ? [5]

Sub- Engg. Chemistry
Branch - Civil & Elect. Engg.

Answer any two. [10x2]

1. What is chemical bonding ? Describe about Ionic bond with example?
2. Explain acid base theory ?
3. Write down the composition of bronze, brass, duralumin, alnico.

Sub- Engg. Chemistry
Branch - Civil & Elect. Engg.

Answer any two. [10x2]

1. What is chemical bonding ? Describe about Ionic bond with example?
2. Explain acid base theory ?
3. Write down the composition of bronze, brass, duralumin, alnico.

Sub- Engg. Chemistry
Branch - Civil & Elect. Engg.

Answer any two. [10x2]

1. What is chemical bonding ? Describe about Ionic bond with example?
2. Explain acid base theory ?
3. Write down the composition of bronze, brass, duralumin, alnico.

Sub- Engg. Chemistry
Branch - Civil & Elect. Engg.

Answer any two. [10x2]

1. What is chemical bonding ? Describe about Ionic bond with example?
2. Explain acid base theory ?
3. Write down the composition of bronze, brass, duralumin, alnico.

Q.1 Answer all the question (2X5=10)

- a) Define regulated dc power supply? Draw its block diagram?
- b) Write the function of C_{in} , C_e , C_c ?
- c) Define oscillator? Write its type?
- d) Define active and passive transducer and give its example?
- e) Define modulation and demodulation? What are the types of modulation?

Q.2 Answer any two (5X2=10)

- a) Draw the block diagram of CRO and explain its operation?
- b) Explain the process of AM and FM? Write the difference between AM and FM?
- c) Explain how zener diode can be used as a voltage regulator? Draw the wave form at different stages?

Q.1 Answer all the question (2X5=10)

- a) Define regulated dc power supply? Draw its block diagram?
- b) Write the function of C_{in} , C_e , C_c ?
- c) Define oscillator? Write its type?
- d) Define active and passive transducer and give its example?
- e) Define modulation and demodulation? What are the types of modulation?

Q.2 Answer any two (5X2=10)

- a) Draw the block diagram of CRO and explain its operation?
- b) Explain the process of AM and FM? Write the difference between AM and FM?
- c) Explain how zener diode can be used as a voltage regulator? Draw the wave form at different stages?

Q.1 Answer all the question (2X5=10)

- a) Define regulated dc power supply? Draw its block diagram?
- b) Write the function of C_{in} , C_e , C_c ?
- c) Define oscillator? Write its type?
- d) Define active and passive transducer and give its example?
- e) Define modulation and demodulation? What are the types of modulation?

Q.2 Answer any two (5X2=10)

- a) Draw the block diagram of CRO and explain its operation?
- b) Explain the process of AM and FM? Write the difference between AM and FM?
- c) Explain how zener diode can be used as a voltage regulator? Draw the wave form at different stages?

Q.1 Answer all the question (2X5=10)

- a) Define regulated dc power supply? Draw its block diagram?
- b) Write the function of C_{in} , C_e , C_c ?
- c) Define oscillator? Write its type?
- d) Define active and passive transducer and give its example?
- e) Define modulation and demodulation? What are the types of modulation?

Q.2 Answer any two (5X2=10)

- a) Draw the block diagram of CRO and explain its operation?
- b) Explain the process of AM and FM? Write the difference between AM and FM?
- c) Explain how zener diode can be used as a voltage regulator? Draw the wave form at different stages?

Sub- BASIC ELECTRICAL ENGINEERING

Branch - Mech. & Auto. Engg.

ANSWER ALL THE QUESTIONS

(2X10)

- a) What is renewable energy?
- b) Define generation of electrical energy?
- c) Write 2 advantages of hydroelectric power plant?
- d) Write 2 disadvantages of thermal power plant?
- e) Define measuring instruments?
- f) What are the traditional methods of generating electricity?
- g) Write down 4 parts name of hydro power plant?
- h) Define nuclear power plant?
- i) What is deflecting torque?
- j) What is the advantage of solar power?

Sub- BASIC ELECTRICAL ENGINEERING

Branch - Mech. & Auto. Engg.

ANSWER ALL THE QUESTIONS

(2X10)

- a) What is renewable energy?
- b) Define generation of electrical energy?
- c) Write 2 advantages of hydroelectric power plant?
- d) Write 2 disadvantages of thermal power plant?
- e) Define measuring instruments?
- f) What are the traditional methods of generating electricity?
- g) Write down 4 parts name of hydro power plant?
- h) Define nuclear power plant?
- i) What is deflecting torque?
- j) What is the advantage of solar power?

Sub- BASIC ELECTRICAL ENGINEERING

Branch - Mech. & Auto. Engg.

ANSWER ALL THE QUESTIONS

(2X10)

- a) What is renewable energy?
- b) Define generation of electrical energy?
- c) Write 2 advantages of hydroelectric power plant?
- d) Write 2 disadvantages of thermal power plant?
- e) Define measuring instruments?
- f) What are the traditional methods of generating electricity?
- g) Write down 4 parts name of hydro power plant?
- h) Define nuclear power plant?
- i) What is deflecting torque?
- j) What is the advantage of solar power?

Sub- BASIC ELECTRICAL ENGINEERING

Branch - Mech. & Auto. Engg.

ANSWER ALL THE QUESTIONS

(2X10)

- a) What is renewable energy?
- b) Define generation of electrical energy?
- c) Write 2 advantages of hydroelectric power plant?
- d) Write 2 disadvantages of thermal power plant?
- e) Define measuring instruments?
- f) What are the traditional methods of generating electricity?
- g) Write down 4 parts name of hydro power plant?
- h) Define nuclear power plant?
- i) What is deflecting torque?
- j) What is the advantage of solar power?

Sub- Engg. Math.
Branch - All

1. Answer any one. [10x1]

a) If $y = (\sin x)^{\cos x} + (\cos x)^{\sin x}$ then find $\frac{dy}{dx}$

b) If $v = e^{m \cos^{-1} x}$ then show that
 $(1 - x^2) \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} - m^2 y = 0$

2. Answer any one. [10x1]

a) Show that the centroid of the triangle with vertices
A (x_1, y_1, z_1) , B (x_2, y_2, z_2) & C (x_3, y_3, z_3) is

$$\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}, \frac{z_1+z_2+z_3}{3} \right)$$

b) Find the ratio in which the line through $(2,4,5)$, $(3,5,-4)$ is divided by xy - plane.

Sub- Engg. Math.
Branch - All

1. Answer any one. [10x1]

a) If $y = (\sin x)^{\cos x} + (\cos x)^{\sin x}$ then find $\frac{dy}{dx}$

b) If $v = e^{m \cos^{-1} x}$ then show that
 $(1 - x^2) \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} - m^2 y = 0$

2. Answer any one. [10x1]

a) Show that the centroid of the triangle with vertices
A (x_1, y_1, z_1) , B (x_2, y_2, z_2) & C (x_3, y_3, z_3) is

$$\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}, \frac{z_1+z_2+z_3}{3} \right)$$

b) Find the ratio in which the line through $(2,4,5)$, $(3,5,-4)$ is divided by xy - plane.

Sub- Engg. Math.
Branch - All

1. Answer any one. [10x1]

a) If $y = (\sin x)^{\cos x} + (\cos x)^{\sin x}$ then find $\frac{dy}{dx}$

b) If $v = e^{m \cos^{-1} x}$ then show that
 $(1 - x^2) \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} - m^2 y = 0$

2. Answer any one. [10x1]

a) Show that the centroid of the triangle with vertices
A (x_1, y_1, z_1) , B (x_2, y_2, z_2) & C (x_3, y_3, z_3) is

$$\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}, \frac{z_1+z_2+z_3}{3} \right)$$

b) Find the ratio in which the line through $(2,4,5)$, $(3,5,-4)$ is divided by xy - plane.

Sub- Engg. Math.
Branch - All

1. Answer any one. [10x1]

a) If $y = (\sin x)^{\cos x} + (\cos x)^{\sin x}$ then find $\frac{dy}{dx}$

b) If $v = e^{m \cos^{-1} x}$ then show that
 $(1 - x^2) \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} - m^2 y = 0$

2. Answer any one. [10x1]

a) Show that the centroid of the triangle with vertices
A (x_1, y_1, z_1) , B (x_2, y_2, z_2) & C (x_3, y_3, z_3) is

$$\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}, \frac{z_1+z_2+z_3}{3} \right)$$

b) Find the ratio in which the line through $(2,4,5)$, $(3,5,-4)$ is divided by xy - plane.

1. *Answer all question.*

1. Write a programme to find out the factorial of a number using for loop. [10]
2. Write a programme to compute the sum, different and product of 2 numbers using function ? [10]

1. *Answer all question.*

1. Write a programme to find out the factorial of a number using for loop. [10]
2. Write a programme to compute the sum, different and product of 2 numbers using function ? [10]

1. *Answer all question.*

1. Write a programme to find out the factorial of a number using for loop. [10]
2. Write a programme to compute the sum, different and product of 2 numbers using function ? [10]

1. *Answer all question.*

1. Write a programme to find out the factorial of a number using for loop. [10]
2. Write a programme to compute the sum, different and product of 2 numbers using function ? [10]