

Government Institute of Printing Technology, Mumbai

Sample paper

Course: Communication Skill (English)

Code: K101

Duration: 03.00 Hours

Marks:70

Instructions to Candidates:

1. Attempt all questions and illustrate your answer with neat sketches wherever necessary.
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary

Q1 Do as directed (any five)**10**

- a. i) Cardio_____ ii) _____ Manage (Add Prefix and suffix)
- b. Break (write any two synonyms of given verb).
- c. Rigid (write any two antonym of given word).
- d. A Titanic disappeared in a sea (rewrite the sentence using correct article)
- e. The climate by mahableshwar in conductive to health (rewrite the sentence using correct preposition in place of underlined conjunction)
- f. Dr. Kalam was though a scientist and author of many famous book. (Rewrite the sentences using correct conjunction in place of underline conjunction)
- g. "You should revise your lessons" he said to me (change into indirect speech)

Q2 Attempt any three of the following.**12**

- a. Justify, "Plastic is considered as an environmental hazard.
- b. State and explain the key to success as your opinion.
- c. State the importance of introducing IQ tests in the recruitment process.
- d. State the notable achievement of Aruminia Sinha.

Q3 Attempt any three of the following.**12**

- a. Write a technical description of "Hard Disk Drive"
- b. Write a technical description of "3D printer".
- c. Develop a dialogue between two friends about ambition in life.
- d. Develop a dialogue between doctor and patient.

Q4 Attempt any three of the following.**12**

- a. Make a sentence using following collocations i) Have a break ii) Go bad iii) Take care iv) Make a decision
- b. Make the two sentences using the given homophones i) Principal, Principle ii) Accept, except
- c. Write the meaning of following idioms and make a sentence of your own. i) Good things came to those who wait. ii) Your guess is as good as mine
- d. Change the voice.
 - i) He taught me physics at the university.
 - ii) We shall send our sister a nice Diwali gift
 - iii) He gave her the remaining money.
 - iv) Turn the ship homewards.

Q5 Attempt any two of the following.**12**

- a. Write a paragraph on "Wi-Fi Technology.
- b. Write a paragraph on "The importance of discipline.
- c. Draft a welcome speech for sports award ceremony.
- d. Write a diary entry when I helped a needy.

Chandrayaan 3 is India's third lunar mission, and it successfully landed on the Moon's south pole on August 23, 2023. The mission's main goal is to search for water ice on the Moon, which could be a valuable resource for future human exploration. Chandrayaan 3 will also study the Moon's geology, history, and environment.

The mission consists of a lander, a rover, and an orbiter. The lander, Vikram, deployed the rover, Pragyan, which began exploring the Moon's surface on September 2, 2023. The orbiter, Chandrayaan-3 Orbiter, is collecting data about the Moon's atmosphere, surface, and interior.

The successful landing of Chandrayaan-3 is a major achievement for India's space program. It is only the fourth country to successfully land a spacecraft on the Moon, and the first to land on the south pole. This accomplishment is a testament to the hard work and dedication of the Indian Space Research Organization (ISRO) team.

The landing of Chandrayaan-3 will allow scientists to study the Moon's south pole in greater detail. This region is thought to be rich in water ice, which could be a valuable resource for future human exploration. The data collected by Chandrayaan-3 will also help scientists to better understand the Moon's geology, history, and environment.

The successful landing of Chandrayaan-3 is a proud moment for India. It is a testament to the country's growing capabilities in space exploration, and it will help to inspire future generations of Indian scientists and engineers.

The mission is expected to last for one year, and it will provide valuable data that will help scientists to better understand the Moon and its potential for future human exploration. The success of Chandrayaan-3 is a major milestone in India's space program, and it will help the country to become a leading player in the global space race.

In addition to the scientific goals of Chandrayaan 3, the mission also has a number of technological objectives. These include testing new technologies for landing and navigation, and developing new ways to communicate with spacecraft in deep space. The success of Chandrayaan 3 will help ISRO to develop even more advanced spacecraft in the future.

The successful landing of Chandrayaan-3 is a major step forward for India's space program. It is a testament to the country's growing capabilities in space exploration, and it will help India to become a leading player in the global space race.

The mission is also a symbol of India's commitment to peaceful space exploration. India has always been a responsible spacefaring nation, and Chandrayaan 3 is a continuation of that tradition. The mission will help to promote international cooperation in space exploration, and it will inspire future generations of scientists and engineers around the world.

Solve any four .

- 1) Write the name of part of Chandrayaan 3 is collecting data about the Moon's surface?
- 2) What this mission will promote?
- 3) How will the success of Chandrayaan 3 help ISRO?
- 4) Write any two technical objectives of the mission.
- 5) According to this passage, which region is thought to be rich in water ice?
- 6) Write name of lander and rover in Chandrayaan 3.

B) Attempt any two of the following.

04

- I. Mentions any four examples of body language.
- II. Explain the term grooming.
- III. He (sit) in the garden when the snake (come) out (use appropriate form of the verbs given in the brackets)

Government Institute of Printing Technology, Mumbai

Sample Paper

Course: Printing Processes

Duration: 03.00 Hours

Code: K104

of Marks:70

Instructions to Candidates:

1. Attempt all questions and illustrate your answer with neat sketches wherever necessary.
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary

Q1. Answer the following questions. (Any 5)

10

- a. Mention two main types of communication techniques.
- b. Write four stages of prepress.
- c. Write two characteristics of image carrier.
- d. Name any two companies making offset lithography plate.
- e. Mention two types of feeding system in offset printing.
- f. Mention any two types of binding process.
- g. Write primary pigment colors in subtractive color theory.

Q2 Answer the following questions. (Any 3)

12.

- a. Draw neat and labelled diagram of single color offset unit.
- b. Write difference between CtP and Image setter.
- c. What is CtP machine? Mention three parts of CtP machine briefly.
- d. Explain working principle of screen printing and how it is different from other conventional printing process.
- e. What are the finishing operations? Describe any one.

Q3 Answer the following questions. (Any 3).

12

- a. Write four differences between center stitching and perfect binding process.
- b. Write name and function of any four units of offset printing machine.
- c. Describe any two image carrier for conventional printing processes.
- d. Write names of any two types of originals and describe them briefly.
- e. Write the importance of prepress in printing. Describe any two stages of prepress.

Q4 Answer the following questions. (Any 3)

12

- a. Mention the paper sizes in mm of the following B3, C1, A5, A0.
- b. Write the principle of offset lithography and mention 3 units of sheet feed offset machine.
- c. Classify image carriers, mention each with related printing process.
- d. Write types of scanners and describe their function briefly.

Q5 Answer the following questions. (Any 3)

12

- e. Write the range of visible spectrum of light? describe additive color theory.
- f. Write the names of any two chemicals used in CTP and describe their functions.
- g. Differentiate between image carrier used for screen printing and other conventional printing process.
- h. Write common configurations of offset printing machine and describe them briefly.

Q6 Answer the following questions. (Any 3)

12

- a. Write names of four substrates used in printing process. Write briefly about each of them.
 - b. State two reasons why the newspaper are printed by web offset printing machine.
 - c. List any two consumables used to prepare image carrier for offset and write their functions.
 - d. What is RIP? Describe RIP process briefly.
 - e. Write four different applications of printing industry.
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Government Institute of Printing Technology, Mumbai

Sample Paper

Course: Printers Mathematics

Code:K106

Duration: 03.00 Hours

Marks:70

Instructions to Candidates:

1. Attempt all questions and illustrate your answer with neat sketches wherever necessary.
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary

Q1. Answer the following questions.(Any 5)

20

- a. In a workshop 45 male worker and 25 female workers are working. Express the numbers of workers in a ratio.
- b. Are the ratios 4:5 and 8:10 said to be proportions?
- c. Define simple Interest and write its formula.
- d. Define compound Interest and write its formula.
- e. Find the total surface area of a cube whose side is 60 cm.
- f. Define Trapezoidal Rule.
- g. Find the mean of 5,7,9,15,11,5,3

Q2 Answer the following questions.(Any 3)

12.

- a. The earning of kapil is 12,000 Rs every month and karan is earning 1,80,000 per year. Find the ratio of monthly earning of kapil and karan.
- b. A slant height of a right circular cone is 10cm and its height is 8cm find its curved surface area of the cone.
- c. In a printing press a litho machine whose cost price was 55,000 rs after 10 years, the owner sold that machine at 20,000 Rs. Find the loss to the owner.
- d. Find the mode for the following distribution

Class interval	0-10	10-20	20-30	30-40
Frequency	05	08	10	07

- e. Calculate the median of the following data.
7,16,121,121,101,81,1,16,9,11,16,

Q3 Answer the following questions.(Any 3).

12

- a. If two cardboard boxes occupy 500 cm³ spaces. Then how much space is required to keep 200 such boxes.
- b. Calculate the compound interest on Rs 20,000 for 9 months at the rate of 4% per annum, when the interest is compounded quarterly.
- c. Convert the following percent in Fractions. i) 45% ii) 0.7%
Convert the following fractions in percent. i) $\frac{3}{4}$ ii) $\frac{125}{625}$
- d. Define pie chart. State the uses of pie chart.
- e. Find the mean of following distribution

xi	15	21	27	30	35
fi	03	05	06	07	08

Q4 Answer the following questions.(Any 3)

12

- a. How much time will take for amount of Rs.900 to find Rs.90 as interest at 4.5% per annum of simple interest?
- b. The curved surface area of a cylindrical pillar is 264m² and its volume is 924m³ find the radius and height of the pillar.
- c. A cost of a machine was 3,50,000 Jan 2015. If the rate of depreciation is 15% for the 1st year and 10% for the subsequent year. Find the values after 3 year.
- d. Calculate the range and coefficient of range for the following data.
123,100,111,124,132,154,132,160

Q5 Answer the following questions.(Any 3)**12**

- The cost of 27kg of cardboard paper is Rs.1080, what will be cost of 120Kg of cardboard of the same quality.
- Calculate the volume and surface area of a metallic sphere having radius 7cm.
- Subhodh purchase a plot for his press for Rs 20,000 and spent Rs 10,00,000 on the construction Subhodh had to sell it for rs 50,00,000. Find his profit or loss in percent.
- Find the standard deviation and variance for the following data 10,12,8,14,16

Q6 Answer the following questions.(Any 3)**12**

- What will be the compound interest on a sum of Rs 25000 after 3 year at the rate of 12%
- A whole seller buys a ink bottle for 680 Rs, he sells to the retailers for 740 Rs determine his profit is in percentage.
- Ram borrowed Rs.14000 from his friend at 8% per annum of simple interest he returned the after 2 years hoe much did he pay book altogether.
- Retailer ordered the papers of various types draw a bar graph for its data.

Types of paper	Boxes
Craft paper	03
Copy paper	10
Fullscape paper	15
Drawing paper	05
Chart paper	07

- Determine the mean deviation for the following data
57,64,43,67,49,59,44,47,61,59,
