

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 8047

J

Unique Paper Code : 2163010009

Name of the Paper : RESEARCH METHODOLOGY

Name of the Course : **Botany**

Semester : VI

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any four questions in all.
3. Question No. 1 is compulsory.
4. All parts of a question should be answered together.
5. Draw graphics wherever required.

1. (a) Name the appropriate research tool/method (any five): (1x5 = 5)

(a) A commonly used data analysis software/package.

(b) Statistical test for comparing means of two groups.

(c) An author-date format used for citations.

(d) A bibliographic database for science that retrieves author information.

P.T.O.

(e) A plagiarism checking software/tool.

(f) A method of data collection.

(b) Fill in the blanks (any five): (1x5 = 5)

(a) The _____ section is where the author thanks individuals or organizations that helped with the research.

(b) Any attempt/s where exclusive permission from the copyright owner is not sought is referred to as _____

(c) A _____ is an exclusive right granted for an invention.

(d) Identification of _____ is the first step in any research process.

(e) Data is often presented visually using _____ and _____

(f) The _____ strategy is used to choose a subset of population under study for data collection.

(c) Define the following terms briefly (any five): (1x5 = 5)

(a) Plagiarism

(b) Citation

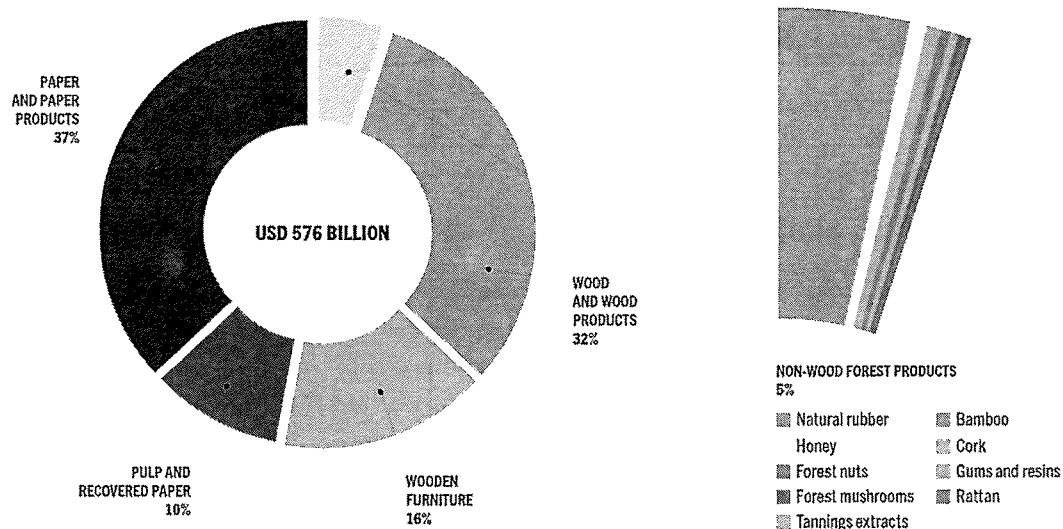
(c) Geographical Indication

(d) Validation

(e) Research Design

2. (a) Define research and discuss the different methods of data collection with suitable examples. (10)
- (b) Explain the Protection of Plant Varieties and Farmers' Rights Act in India with reference to intellectual property rights. (5)
3. Write short notes for any three (cite examples): (3x5 = 15)
- (a) Data representation
- (b) Literature review and its significance
- (c) Biopiracy
- (d) Importance of grants and fellowships in research
4. Differentiate between the given terms (*any three*): (3x5 = 15)
- (a) Research Methods and Research Methodology
- (b) Trademark and Copyright
- (c) Research Paper and Review Paper
- (d) Correlation and Regression
5. Discuss the key features of the IMRAD format of research paper explaining the content of each section. (15)
6. Answer the following questions based on the following graphic:
- (a) Write a paragraph explaining the graphic (200 words). (9)
- (b) Interpret the data highlighting key findings. (6)

SHARE OF GLOBAL FOREST PRODUCT EXPORTS, BY PRODUCT CATEGORY, 2022



NOTE: Wood = unprocessed wood (roundwood, also called "wood in the rough"; it includes logs, pulpwood, other industrial roundwood and woodfuel); wood products = all transformed/processed products except furniture (charcoal, chips, pellets and briquettes, sawnwood, panels and further processed wood products such as prefabricated wooden houses, doors and window frames). Wooden furniture is also a wood product but is shown here as a separate category.

SOURCES: FAO. 2023. FAOSTAT: Forestry Production and Trade. [Accessed on 29 December 2023]. <https://www.fao.org/faostat/en/#data/FO>.

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and UN Comtrade. 2023. United Nations Commodity Trade Statistics Database. [Accessed on 29 December 2023].

<https://comtradeplus.un.org/>