

LIST OF ABBREVIATIONS

- EO- Essential oil
- CNPs- Chitosan nanoparticles
- NP- Nanoparticle
- NPs- Nanoparticles
- RPM- Rotation per minute
- TPP- Sodium tripolyphosphate
- EE- Entrapment efficiency
- LC- Loading Capacity
- PDI- Polydispersity Index
- MIC- Minimum Inhibition Concentration
- SEM- Scanning Electron Microscope
- Gram +ve – Gram positive
- Gram -ve – Gram negative
- E.coli- Escherichia coli
- S. aureus- Staphylococcus aureus
- A. fumigatus- Aspergillus fumigatus
- EDX- Energy Dispersive X-ray spectroscopy
- AATCC- American Association of Textile Chemists and Colorists
- ISO- The International Standard of Organization
- nm- Nanometer
- NNP- Neem nanoparticle
- C1NP- Cinnamon nanoparticle
- C2NP- Clove nanoparticle
- C3NP- Carom nanoparticle
- C1NP+ C2NP- Cinnamon nanoparticle + Clove nanoparticle

QUESTIONNAIRE

The PhD research entitled ‘An experimental study on developing an antimicrobial and insect repellent fabric for preservation of textiles’ under the guidance of Prof. Anjali Karolia.

The main objective of the research is to develop an antimicrobial and insect fabric so as to protect and preserve textiles from biological damages and thereby increasing its durability. The developed fabric will be used to wrap the textiles for the storage and also can be used as a lining for the drawers, boxes and thus ensuring the protection of the textiles for now and the future.

The questionnaire deals with assembling the information of the traditional textile preservative practices followed by individual at homes.

The researcher looks forward for your kind response and co-operation.

Thanking you.

Yours Sincerely,

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Preliminary Information of the respondents:-

Name:

Age:

Occupation status:

1. Enlist the oldest garment you possess and mention its fiber content.

Type of garment	Cotton	Silk	Wool	Age of the textile

2. Who did the above mentioned textiles originally belong to?

3. Does the textile have any kind of damage on it?

Yes ☐

No ☐

4. What according to you are the major factors causing damages to the textiles?

Dust ☐

Light ☐

High Environment Temperature levels ☐

Variations in Relative Humidity ☐

Micro-organisms: Bacteria ☐ Fungi ☐

Insects: Silverfish ☐ Moth ☐ Termites ☐ Cockroaches ☐

Any Other (Please ☐

specify): _____

5. Please describe the type of damages on the textiles.

- Physical Damage

a) Raveling or fraying of yarns ☐

b) Tare at folds ☐

c) Abraded areas ☐

d) Breakage of yarns ☐

- Chemical Damage

a) Color fading ☐

b) Yellowing ☐

c) Zari tarnishing ☐

d) Holes due to ageing ☐

- Biological Damage:

a) Insect holes ☐

b) Fungus stains ☐

- Any other (Please specify)

6. How do you store the textiles?

a) Cotton-

b) Silk-

c) Wool-

7. What are the types of racks/ cupboard/ trunks used to store the textiles?

Wood ☐ Glass ☐ Aluminum ☐ Iron ☐ Others (Please specify)

8. How often do you inspect your textiles?

Weekly ☐ Monthly ☐ 6 Monthly ☐ Yearly ☐

9. Do you change the folds of the textiles? If yes, how often the folds are changed?

Weekly ☐ Monthly ☐ 6 Monthly ☐ Yearly ☐

10. Do you expose the textiles to sunlight? If yes, then please fill the details below:

Textile exposed to sunlight	Fiber Content	Season	Time Duration

11. Are you aware of the term preservation and conservation of textiles?

Yes ☐ No ☐

12. Do you practice any preservation or conservation method on the textiles? If yes, mention the type of material used.

Natural preservative/ conservative ☐

Synthetic preservative/conservative ☐

13. Explain the process of using the type of preservative/conservative method mentioned above.

14. How often do you change the preservative or conservative material used for textiles?

15. From where did you learn the preservative practice?

16. Are there any difficulties faced while using the different preservative materials? If yes, then please specify.
