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BBA in TM, 6th Sem.

Date: February 22, 2023 (Morning)

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Mid-Semester Examination

Course No. : BTM 4661

Course Title : Textile Technology

Summer Semester, A. Y. 2021-2022

Time : 1.5 hours

Full Marks : 75

Answer **all 3 (three)** questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin with brackets.

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|-------|--|----|--------------------------------|
| 1. a) | Mention the composition of cotton fiber. Reveal the microscopic structure of cotton fiber with net sketch. | 8 | (CO2)
(PO1) |
| b) | Define rayon fiber. Why it is called the wood silk? Mention different stages of viscose rayon process. | 6 | (CO1,
PO1) |
| c) | What is the building block of cotton fiber? Show the chemical structure of cellulose. | 8 | (CO1)
(PO2) |
| d) | What is ginning? Mention the different parameters for cotton fiber grading. | 3 | (CO1,
PO1) |
| 2. a) | What is silk? Why silk is called the queen of textile fibers? | 4 | (CO1,
CO4,
(PO1,
PO2) |
| b) | What is sericulture? Discuss the different stages of sericulture. | 8 | CO1,
CO3,
PO4) |
| c) | Classify different types of silk fiber. Briefly illustrate the life cycle of Bombyx mori. | 10 | (CO1,
PO1) |
| d) | Mention the composition silk fiber and amino acids in silk fibrion. | 3 | (CO1,
PO1) |
| 3. a) | What is wool fiber? Illustrate the macro structure of wool fiber. | 3 | (CO1)
(PO1) |
| b) | Mention different stages of viscose rayon process. Illuminate the structural modification of cellulose during viscose formation. | 10 | (CO2)
(PO2) |
| c) | Briefly describe the different layers of micro structure of wool fiber. | 6 | (CO1)
(PO1) |
| d) | What is crimp? Why do we feel warm by wool cloth? | 6 | (CO2,
PO1) |