

BTECH
(SEM.IV.) THEORY EXAMINATION 2018-19
SUBJECT NAME: TEXTILE FIBRE-II

*Time: 3 Hours**Total Marks: 70***Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

- a. What do you mean by Polycondensation?
- b. What is FOY?
- c. Give two examples of amide fiber.
- d. What is mod acrylic?
- e. What is spinneret?
- f. What is catalyst?
- g. What do you understand by Coagulation?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

- a. Discuss the characteristics of fibre forming polymer.
- b. Discuss the properties of polyester fiber
- c. Discuss the properties of Nylon 66 fibre.
- d. Discuss the manufacturing process of of acrylic fibres by Suspension polymerization
- e. Compare the properties of cotton and viscose fiber.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

- (a) Classification of manmade fibres with suitable examples for each class.
- (b) With the help of suitable figures explain concept of Crystallinity.

4. Attempt any *one* part of the following: 7 x 1 = 7

- (a) Discuss the method of producing PET fibre by continuous process through DMT route.
- (b) Discuss the method of producing PET fibre by batch process through TPA route.

5. Attempt any *one* part of the following: 7 x 1 = 7

- (a) Discuss the method of producing NYLON 6 fibre by continuous process.
- (b) Discuss the method of producing NYLON 66 fibre by Batch process.

- 6. Attempt any *one* part of the following:** **7 x 1 = 7**
- (a) Discuss the manufacturing process of of Polyacrylonitrile fibres fibres by Solution polymerization
 - (b) Discuss the properties of acrylic fibres.
- 7. Attempt any *one* part of the following:** **7 x 1 = 7**
- (a) What are the differences of cotton and Viscose fiber
 - (b) Discuss the methods of obtaining microfibrillar structure in viscose fiber manufacturing