

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Differentiate between dry and wet spinning system with suitable examples?
- Q.4 Discuss different polymerization techniques of polypropylene manufacture?
- Q.5 Explain in details, production process of viscose rayon?
- Q.6 Discuss briefly physical and mechanical properties of acrylic?
- Q.7 Discuss effect of different spinning variables on fibre properties?

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Roll No.

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6th Sem. / Textile Chemistry

Subject : Man Made Fibre Production

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What is permissible amount of moisture % in polyester chips?
- b) What is significance of washing chips?
- c) Define regenerated fibres?
- d) What are different types of spinnerets cross-section?
- e) What is DGT with reference to polyester?
- f) What are common advantages of man-made fibres?
- g) What are dopes?
- h) Name two common additives used in melt-spinning?

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- i) Define mass-transfer techniques?
- j) What types of catalyst used in polymerization of polypropylene?
- k) Differentiate between acrylic and modacrylic fibres?
- l) What is xanthation?
- m) Define extrusion temperature?
- n) What is principle of bulk polymerization?
- o) Define draw-ratio.
- p) What is DMT?
- q) What are atactic polymers?
- r) What is coagulating bath?
- iv) How luster can be improved in PET polymer?
- v) What is basic principle of nylon 66?
- vi) Discuss significance of ziegler-natta catalyst?
- vii) Name and explain function of two additive used in coagulating bath of viscose fibre?
- viii) How spin finish can be applied?
- ix) Discuss functions of steeping process?
- x) What is importance of drawing of filaments?
- xi) Give common uses of cellulose-acetate fibres?
- xii) What is bio-component spinning?
- xiii) What is polyurethane polymer?
- xiv) Discuss different properties of polynosic rayon?
- xv) What is cuprammonium rayon?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What are different functions of extruders?
 - ii) Discuss stereo-regularity of PP polymer?
 - iii) What are common limitations of natural fibres?

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