

B. TECH.**THEORY EXAMINATION (SEM–VI) 2016-17****COATING OF TEXTILES***Time : 3 Hours**Max. Marks : 100**Note : Be precise in your answer.***SECTION-A**

- 1 Explain the following :** **(10x2=20)**
- a) Polymeric material
 - b) Acrylic polymer
 - c) Coating
 - d) Calendaring
 - e) Rheology
 - f) Fabric
 - g) Clothing comfort
 - h) Breathable fabric
 - i) Abrasion resistance
 - j) Low temperature impact test

SECTION-B

- 2 Attempt any five parts of the following:** **(10x5=50)**
- a) What is the concept of curing? Explain the method of curing of rubber coating.
 - b) Discuss any one screen printing method for coating.
 - c) Explain the roller coating process with the help of examples.
 - d) Discuss "Knife as a Coating Head".
 - e) Establish the relation between thickness of coating to distance between fabric and knife.
 - f) Explain Platisols and apparent viscosity.
 - g) What is Resistance to water penetration? Explain the process of testing of water proofing.
 - h) Differentiate between Thermo chromic Fabric and Temperature Adaptable Fabric.

SECTION-C

- Attempt any two parts of the following:** **(15x2=30)**
- 3** Discuss the process of estimation of GSM of coating.
- 4** Discuss rheological behavior of compound of different materials.
- 5** Write short notes on any two of the following:
- a) Impermeable coating.
 - b) Camouflage nets.
 - c) Radiation cured coating.