[Total No. of Questions - 9] [Total No. of P ed Pages - 2] (2126)

16208(D) \_ 1 DEL 2016

# B. Tech 7th Semester Examination Post Spinning Operation (NS)

TE-415

Time: 3 Hours

Max. Marks: 100

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

**Note:** Attempt five questions in all selecting one question from each of section A, B, C and D. Section E is compulsory.

## SECTION - A

- Explain different kind of spinning process. How stress and strain act at different places also explain drawing by through neck process with suitable figure. (20)
- How drawing behavior of thermoplastic polymer take place, justify with parameters on structure and properties of fibres with different stages and suitable figure. (20)

# SECTION - B

- Why we go for heat setting for different kind of fibres and filament. Write their object method and how heat selling effects properties of fibres. (20)
- Explain what is the need of tow to top conversion. Also write different tow to top conversion with taking suitable example of fibres or filament. (20)

# SECTION - C

 Write the properties of bulk yarn with producing method. Explain working principal of knife edge cramping process with suitable figure. (20) - O DEC %6

6. At what stage major problems developed during friction, lavishing, how it can be solved. (20)

16208

### SECTION - D

- 7. Write the concept of air jet texturising. What type of material and process involvedin. Explain with suitable example. (20)
- 8. What type of developments take place in texturising and explain air entanglement process. Justify with suitable example. (20)

### SECTION - E

- 9. Write in short of each answer.
  - (a) What is high speed spinning, write with suitable example?
  - (b) Write about of drawing of pre oriented yarn.
  - (c) What is basic need of post spinning operation?
  - (d) Why yarn over feed effects on over all dia of air texturised yarn.
  - (e) How much temperature used in drawing of nylon fibres.
  - (f) Write about term degree of set for heat.
  - (g) How stress and strain curve effect in texturised yarn. Justify your answer with example.
  - (h) Write about chemical texturising.
  - (i) Write short notes on draw warping m/c.
  - (j) What is high spot it effects in texturised yarn? (2×10=20)