3rd Sem. / Textile Design /DET-L

Subject : Textile raw material

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 uster percentage ?

b) Give one example of semi-synthetic fibre ?

c) What is water repellency ?

d) What is scouring ?

e) What is grid spinning ?

f) What is resist printing ?

g) Give one example of mineral fibre.

h) Which synthetic fibre is called artificial silk ?

SECTION-C

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

Q.3 Explain spinning process of cotton with flow chart.

Q.4 Explain the functioning of a Carding room machine with neat sketch.

Q.5 Explain physical & chemical properties of polyester fibre in detail.

Q.6 What is function of bleaching ? Explain different types of bleaches & their applications in detail.

Q.7 Write short note on :

1. Relationship between absolute humidity & relative humidity.

2. Grading of wool.

i)   What is fabric finishing ?

j)   What is relative humidity ?

k)   Define resilience of a fibre.

l)   Give two sources of silk.

m)   Jute fibre is which kind of fibre ?

n)   What are objectives of spacers ?

o)   What is filament ?

p)   What is moisture region ?

q)   What is waste silk ?

r)   What are hydrophobic fibres ?

SECTION-B

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

Q.2 i)   What are different sources of wool ?

ii)   Write four chemical properties of cotton.

iii)   Explain mixing process in detail ?

iv)   What is effect of moisture on fibres?

v)   Differentiate between terms moisture content & moisture regain.

vi)   What are staple fibres ?

vii)   Explain process of scouring in brief.

viii)   Write four physical properties of viscose rayon fibre.

ix)   Write four end uses of jute.

x)   Explain any two chemical finishes.

xi)   What are objectives of back filling?

xii)   Write Four physical properties of nylon.

xiii)   Explain process of mercerization in brief?

xiv)   What is principle of wet-spinning?

xv)   Why blending is done at draw frame stage?