

- Q.29 Explain various modifications done in modern ring frame.
 - Q.30 Explain the roller drafting system in ring frame.
 - Q.31 Discuss about the change place of ring frame
 - Q.32 Differentiate direct count with indirect count system.
 - Q.33 What are the objective of doubling ? Write its effects
 - Q.34 Explain the direct and indirect system of count.
 - Q.35 Discuss about the change place of ring frame.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Define ring Frame. Explain working principle and objectives with neat diagram.

Q.37 Define Ring Doubling, its objectives and doubling effects. Explain in details.

Q.38 What are the reasons of end breakage in ring frame ?
Also gives the remedies of end breakage.

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Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The shape of ring.

 - a) Eclipse
 - b) Cubic
 - c) Circular
 - d) Square

Q.2 The spindle speed of ring frame in RPM is

 - a) 15000-16000
 - b) 170000-18000
 - c) 12000-20000
 - d) 2000-25000

Q.3 The ring cap weight is _____ grams

 - a) 180-250
 - b) 250-300
 - c) 400-500
 - d) 100-200

Q.4 Twist constriction is equal to.....

 - a) $0.815\sqrt{TM}$
 - b) $0.715\sqrt{TM}$
 - c) $0.615\sqrt{TM}$
 - d) $0.915\sqrt{TM}$

Q.5 Twisting reduces the..... of fiber strand

 - a) Thickness
 - b) Small
 - c) Big Size
 - d) Thickness

- Q.6 Increasing the spindle speed affects the yarn tension called as
- Yarn ballooning
 - lappet
 - Loop
 - Ballon height
- Q.7 The objectives of apron is to control the.....
- Long Fiber
 - Staple Fiber
 - Short Fiber
 - None of these
- Q.8 What is the effect of high traveler mass
- Less yarn tension
 - Less end brake
 - High yarn tension
 - No end brakes
- Q.9 What is the typical range of break draft used in 3/3 drafting system
- 1.12-1.36
 - 1.11-1.34
 - 1-13-1.38
 - 1.10-1-1.20
- Q.10 What is shape of traveller in ring frame m/c
- B
 - C
 - D
 - E

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 After twisting the strength of fibre bundle is
- Q.12 TPI is known as
- Q.13 Density is increased/ decreased after drafting.

(2) 182752/122752/032752

- Q.14 A bundle of fibres twisted together is called
- Q.15 Formula of TPI is
- Q.16 Break draft (Draw Frame) =
Surface speed of back roller
- Q.17 Balloon breaker controls
- Q.18 TFO full form is
- Q.19 Separator are used for
- Q.20 Give the formula for production per shift of a ring frame.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$
- Q.21 Explain the type of twist with diagram.
- Q.22 Compare Ring Doubler with TFO
- Q.23 What are the objective of ring frame ?
- Q.24 Explain various process control parameters with reference to yarn quality
- Q.25 Write about some yarn defects which occurs in doubling machine.
- Q.26 What is the function of drafting ?
- Q.27 Draw the gearing diagram showing various drive of a ring doubling machine.
- Q.28 Write any four yarn defects along with their cause and remedies in double machine.

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