

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

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=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.

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- 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. (12x5=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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