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Bank: (Parachute Rigger)

Airman Knowledge Test Question Bank

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http://www.faa.gov/training_testing/testing/airmen/test_questions/

The Learning Statement Reference Guide for Airman Knowledge Testing contains listings of learning statements with their associated codes. It can be located at:

http://www.faa.gov/training_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf

1. RIG006 RIG

In addition to other qualifications, an applicant for a Master Parachute Rigger Certificate shall show evidence of having packed satisfactorily a minimum of

- A) 100 parachutes of each of 2 types in common use.
- B) 20 parachutes of each type for which a rating is desired.
- C) 100 FAA-approved parachutes within the preceding 12 calendar months.

2. RIG006 RIG

What requirements must be met by an eligible member of an Armed Force of the United States who applies for a Senior Parachute Rigger Certificate?

- A) Pass an oral and practical test for each rating sought.
- B) Pass a written test with respect to Federal Aviation Regulations.
- C) Pass a written test, and an oral and practical test for each rating sought.

3. RIG022 RIG

In the process of packing a parachute, the apex is generally released from the table prior to which of the following operations?

- A) Pleating the gores.
- B) Accordion-folding the canopy.
- C) Straightening the top lateral band.

4. RIG004 RIG

When packing a ram-air canopy, if the leading edge of the canopy is folded inward and rolled tightly to the second line, how will the canopy perform?

- A) It will inflate faster.
- B) It will open softer.
- C) It is less likely to snivel.

5. RIG041 RIG

Which group of suspension lines is connected to the inboard end of the riser connector links (28-foot canopy)?

- A) Lines 1, 14, 15, and 28.
- B) Lines 1, 6, 12, and 28.
- C) Lines 1, 7, 13, and 20.

6. RIG003 RIG

When packing a parachute with harness attached, you find the canopy, suspension lines, and harness twisted and tangled. Which of the following should be accomplished first?

- A) Determine that the canopy is right side out.
- B) Remove the twists and tangles in the suspension lines nearest the canopy.
- C) Remove the twists and tangles in the suspension lines nearest the harness.

7. RIG029 RIG

A nylon back-type parachute intended for emergency use should be completely inspected and repacked at the end of

- A) 90 days.
- B) 120days.
- C) 180 days.

8. RIG030 RIG

What procedures should be followed to obtain field approval for installation of an automatic opening device on an auxiliary parachute pack?

- A) A person qualified to alter a parachute should submit the proposed alteration to the FAA.
- B) A master parachute rigger shall install the automatic opener and sign the packing card.
- C) The manufacturer of the device shall install it on the auxiliary pack and sign the packing card.

9. RIG019 RIG

The term 'backpack or chestpack' refers to the parachute assembly, less the

- A) reserve parachute.
- B) harness.
- C) main parachute when referring to a dual assembly used for intentional jumping.

10. RIG041 RIG

What technique is used to assure uniformity in the length of nylon suspension lines for a given model parachute during their manufacture and/or replacement?

- A) All suspension lines shall be marked while under no load to show points of attachment.
- B) All suspension lines shall be marked while under equal tension to show points of attachment.
- C) With no load on suspension lines, mark the points of attachment, then cut the line core approximately 2 inches longer than the sleeve.

11. RIG001 RIG

A rubber vent collar ring is capable of

- A) holding the vent closed, especially during opening shock.
- B) stretching to the diameter of the vent hem.
- C) controlling horizontal direction while descending.

12. RIG024 RIG

Which canopy construction style will have a half-cell panel at each end on only the top surface?

- A) I-Beam.
- B) Interlocking T-Beam.
- C) Half-Cell chord wise.

13. RIG001 RIG

On a spanwise constructed canopy how are the loaded ribs attached to the upper and lower surface? They are sewn

- A) into the upper and lower surfaces.
- B) onto the upper surfaces and into the lower surfaces.
- C) into the upper surfaces and onto the lower surfaces.

14. RIG024 RIG

Where are crossports located in a ram-air canopy?

- A) At 10% of the cord.
- B) In the outboard end ribs.
- C) Midway between suspension line attachment points.

15. RIG009 RIG

'Porosity,' as used in parachute terminology, is expressed in terms of the

- A) rate of airflow through the canopy.
- B) rate of descent.
- C) weight of cloth per square yard.

16. RIG024 RIG

What is the best ratio of pilot chute area to main canopy area for deployment speeds up to 150 knots?

- A) 5%.
- B) 3%.
- C) .5%.

17. RIG016 RIG

Nylon tubular webbing is commonly used in which of the following parachute parts?

- A) Harness straps.
- B) Pilot chute bridle line.
- C) Ram-air canopy lower seam reinforcement.

18. RIG035 RIG

Normally, ripcord cables are manufactured of

- A) Monel metal wire.
- B) stainless steel 3/32 aircraft cable.
- C) galvanized carbon steel cable.

19. RIG043 RIG

When combining components certificated under TSO-C23b and TSO-C23c, which component is the limiting factor for speed and weight?

- A) Canopy.
- B) Container.
- C) Harness.

20. RIG020 RIG

When defining a canopy the angle of incidence is formed between which reference points?

- A) The flight path and the chord line.
- B) The canopy reference line and the trim line.
- C) The canopy reference line and the chord line.

21. RIG041 RIG

Suspension line breakage in ram-air canopies most often occurs at what line position?

- A) The leading edge outboard.
- B) The trailing edge mid-canopy.
- C) The leading edge center line.

22. RIG025 RIG
Which of the following would NOT induce a persistent turn in a ram-air canopy?
A) improper packing.
B) replacing a line of improper length.
C) a short steering line.
23. RIG023 RIG
The slider component of a parachute assembly
A) aids in positive deployment of the pilot chute.
B) controls the rate of inflation.
C) is part of the main canopy release system.
24. RIG005 RIG
Deployment devices are employed in parachute assemblies for what purpose?
A) To decrease deployment time.
B) To reduce snatch force.
C) To aid in jettisoning the main canopy.
25. RIG020 RIG
As the exit weight is increased on a canopy the sink rate also increases. The glide angle will
A) become steeper.
B) become flatter.
C) remain fairly constant.
26. RIG002 RIG
Which aspect ratio canopy will, in general, open quicker and with greater total opening shock?
A) Canopies with aspect ratios up to 1.9.
B) Canopies with aspect ratios 2.0 to 2.2.
C) Canopies with aspect ratios 2.3 and up.
27. RIG022 RIG
When packing a ram-air parachute if the lines are not properly straightened, what malfunction could occur?
A) Locked bag.
B) End cell closure.
C) Line - over.
28. RIG017 RIG
After hanging a round parachute in a loft, you find the suspension lines will not clear the floor. What is the recommended procedure to follow?
A) Lay excess length of lines on a table.
B) Chain the lines.
C) Leave the excess length of lines in the retainer loops.
29. RIG018 RIG
What is the purpose of naphthalene flakes when used in storage areas?
A) Provide rodent protection.
B) Provide mildew protection.
C) Help maintain proper humidity conditions.

30. RIG011 RIG

Which operation should be performed first when fitting a parachute harness to the wearer?

- A) Position the sling under the buttocks to form a seat.
- B) Adjust the back straps.
- C) Place the chest strap approximately 4 inches below the chin and adjust the shoulder adapters.

31. RIG013 RIG

What is the correct procedure for measuring replacement Spectra line? Before marking, tension under

- A) 10 lbs.
- B) 5 lbs. for 30 minutes.
- C) 30 lbs. for 30 seconds.

32. RIG009 RIG

How should repair of a canopy with both fabric and line damage be accomplished?

- A) Lines should be repaired first.
- B) Fabric should be repaired first.
- C) The order of repair depends on the type of materials used in the construction of the assembly.

33. RIG007 RIG

A rough locking cone surface sometimes can be field repaired by

- A) rotating 180 degrees and reinstalling.
- B) grinding the cone using an emery wheel.
- C) dressing the cone with No. 2 sandpaper.

34. RIG042 RIG

Why is it necessary that the open end of pack opening elastic or spring band hooks be closed with pliers?

- A) The pilot chute canopy or suspension lines have less chance of catching on hooks.
- B) The hook may slip out of the eye when the pack opens unless assembled in this manner.
- C) The hook and eye is easier to assemble in this manner.

35. RIG044 RIG

What is the most accepted process used when cutting nylon webbing?

- A) Shearing.
- B) Seaming.
- C) Cutting.

36. RIG014 RIG

Why is an acid stain more serious than any other type of stain on a parachute?

- A) It may not be detected until deterioration of the fabric occurs.
- B) It can be treated only at a certificated repair facility.
- C) No repair is authorized.

37. RIG038 RIG

Figure 10 is a cross section of a series of lock stitches sewn by machine. Which action will aid in correcting the fault shown?

- A) Decrease bobbin thread tension and increase needle thread tension.
- B) Increase bobbin thread tension and decrease needle thread tension.
- C) Increase presser foot pressure and decrease feed dog pressure.

38. RIG037 RIG
Which of the following is used to determine the size of the sewing machine needle to be used for a particular job?
A) Size of the hole in the feed dog.
B) Length of the seam to be sewn.
C) Thread size and type of cloth.

39. RIG036 RIG
Normally, when hand sewing loose eyes on a parachute container, each step should be sewn with
A) six turns of a double 3-cord nylon thread.
B) five turns of a single 6-cord nylon thread.
C) two turns of a 3-cord cotton doubled and waxed thread.

40. RIG021 RIG
Which type of stitch should be used for sewing a tear in a parachute container in preparation for patching?
A) Backstitch.
B) Baseball stitch.
C) Darning stitch.

41. RIG026 RIG
A certificated parachute rigger may not pack and seal a parachute to which an Airworthiness Directive applies unless
A) the conditions stated in the Airworthiness Directive allow further operation.
B) a master rigger approves all deviations to conditions in the Airworthiness Directive.
C) the unit is a reserve parachute.

42. RIG006 RIG
You have received your Senior Parachute Rigger Certificate within the last 30 days. If you are requested to pack a parachute under the privileges of your certificate, and you hold the proper rating,
A) you may pack the parachute because you have performed duties under your certificate for 30 days within the previous 12 months.
B) you may pack the parachute because you have shown the FAA Administrator you are able to perform those duties.
C) you may not pack the parachute.

43. RIG006 RIG
Which of the following is privileged to perform alterations to the auxiliary canopy of a single harness dual parachute pack to be used for intentional jumping?
A) The owner of the parachute.
B) A certificated and appropriately rated master parachute rigger.
C) A certificated and appropriately rated senior parachute rigger.

44. RIG006 RIG
Who may install Capewell fasteners (for a main back pack) on a single harness dual parachute pack?
A) Master parachute rigger.
B) Military rated parachute rigger.
C) Person using the parachute for intentional jumping.

45. RIG027 RIG
Which of the following statements is true concerning the minimum facilities and equipment required for a parachute rigger to pack the main parachute of a single harness dual parachute pack to be used for intentional jumping?

- A) The facilities and equipment requirements of the FAR's do not apply in this instance.
- B) The packing must be done in a parachute facility rated for general maintenance, minor repair, canopy overhaul.
- C) The packing may be done outside a properly equipped facility only by an appropriately rated master parachute rigger.

46. RIG031 RIG

If requested to pack a parachute intended for emergency use, in a manner other than the manufacturer's approved method, what should a certificated rigger do?

- A) Pack the parachute in the manner requested and drop test it to determine if the rate of opening is acceptable.
- B) Request the local FAA inspector to approve the deviations from the manufacturer's approved method.
- C) Refuse to pack the parachute in the manner requested.

47. RIG030 RIG

- (1) A senior parachute rigger may make minor harness repairs for the types of parachutes for which he/she is rated.
- (2) A senior parachute rigger may alter the length of the bridle line that attaches the pilot chute to the canopy.

Regarding the above statements, which of the following is true?

- A) Only No. 1 is true.
- B) Only No. 2 is true.
- C) Both No. 1 and No. 2 are true.

48. RIG033 RIG

Which of the following Federal Aviation Regulations should the parachute rigger be knowledgeable of?

- A) FAR Parts 63 and 145.
- B) FAR Parts 65 and 105.
- C) FAR Parts 63 and 147.

49. RIG034 RIG

What Federal Aviation Regulation prescribes rules for intentional parachute jumping?

- A) FAR Part 65.
- B) FAR Part 91.
- C) FAR Part 105.

50. RIG006 RIG

The packing, maintaining, or altering of a parachute must be performed following the procedures

- A) prescribed in FAR Part 65.
- B) approved by the FAA Administrator or the parachute manufacturer.
- C) contained in TSO-C23b.

51. RIG032 RIG

During the assembly of approved parachute components, if a conflict arises between the canopy manufacturer's instruction's and the container manufacturer's instructions how should the rigger proceed? Precedence should be given to the

- A) intended use of the assemble.
- B) canopy manufacturer's instructions.
- C) container manufacturer's instructions.

52. RIG032 RIG

A person who is authorized to perform alterations to parachutes must record which of the following alterations to a single harness dual parachute pack?

- 1. The main parachute.
- 2. The harness.

3. The auxiliary parachute.
 4. The auxiliary parachute container.
 5. The main parachute container.
- A) 1, 2, 3.
B) 2, 3, 4.
C) 3, 4, 5.