QUESTION BANK

Vol 1

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Pooleys Flight Equipment Ltd

Telephone: +44(0)208 953 4870 Facsimile: +44(0)208 953 2512 Email: sales@pooleys.com Website: www.pooleys.com

QUESTION BANK

Vol 1

by Mike Burton

General Knowledge

Systems

Powerplants

Instruments

Electrics

Electronics

Mass & Balance

Performance

Principles of Flight

Propellers

Preface

The questions contained within this book are representative of the questions that may be encountered in the J.A.R examination. The objectives of the book are to draw your attention to the level of detailed knowledge and breadth of knowledge required to achieve a pass in the J.A.R examinations.

It is very important that the student should practice the reading of questions, and answering the question that has been asked. Do not assume the question has asked anything more than it really has. Study hard, regularly, and practice question answering regularly.

Good Luck with your studies, and your future. I wish you well!

Mike Burton Aviation Instructor Author and Consultant.

CONTENTS

Aircraft General Knowledge. Airframes, Systems, and Powerplants. Paper 1 Aircraft General Knowledge. Airframes, Systems, and Powerplants. Paper 2

Which Include:

Airframes

Hydraulics

Undercarriages.

Tyres.

Brakes.

Air-conditioning.

Pressurisation.

Fuel.

Fuel Systems.

Fuelling Precautions.

Powerplants. (Piston and Gas Turbine Engines)

Aircraft General Knowledge - Instruments, Electrics and Electronics Paper 1 Aircraft General Knowledge - Instruments, Electrics and Electronics Paper 2

Which Include:

Instruments

Electronic Flight Instruments.

Autoflight.

Autoland.

Electrical Supplies.

Logic

Semi Conductors.

Flip Flops.

Electronics.

Loading - Paper 1.

Loading Mass & Balance - Section II
Performance - Paper 1.

Performance Aeroplanes - Section II
Principles of Flight - Paper 1
Principles of Flight - Paper 2

Which Include:

Theory of Flight

Controls

Duplicate Inspections Transonic Flight. Supersonic Flight.

Propellers

Technical General Paper 1

Which Include:

Principles of Flight.

Systems.

Structures.

Undercarriages.

Tyres.

Brakes.

Hydraulics

Air Conditioning and Pressurisation.

Instruments.

Electrics

AIRCRAFT GENERAL KNOWLEDGE

AIRFRAMES SYSTEMS AND POWERPLANTS - PAPER 1.

- 1. On an aircraft which employs stressed skin construction:
 - a) the skin of the airplane takes no part of the load.
 - b) the skin of the airplane takes all of the structural load.
 - c) the aircraft skin is designed to take part of the load.
 - d) the skin is fabric which is stretched over a structure, which in turn takes all of the load.
- **2.** Aircraft wing construction which employs the principle of the skin taking part of the load is termed:
 - a) Monocoque.
 - b) Stressed Skin.
 - c) Semi Monocoque.
 - d) Warren or Box Girder.
- **3.** The component of an aircraft wing which can be considered to be the primary structural member is called:
 - a) the rib.
 - b) the main spar.
 - c) the control surface spar.
 - d) the lateral datum.
- **4.** The Control Surfaces on a wing are usually attached to:
 - a) the main spar.
 - b) the rear spar.
 - c) the torque tube.
 - d) the wing trailing edge stiffeners.
- **5.** On what type of structure does the skin take none of the structural load?:
 - a) stressed skin.
 - b) monocoque.
 - c) box or warren girder.
 - d) semi monocoque.
- **6.** In normal flight, what is the position of the Emergency Lighting Switch?:
 - a) ON
 - b) OFF.
 - c) OPEN.
 - d) ARMED.

AIRCRAFT GENERAL KNOWLEDGE

AIRFRAME SYSTEMS AND POWERPLANTS - PAPER 1

ANSWERS

1		
	-	к

2. - c

3. - b

4. - b

5. - c

6. - d

7. - c

8. - a

9. - d

10. - c

11. - a

12. - d

13. - b

14. - c

15. - b

16. - b

17. - b

18. - a

19. - a

20. - a

21. - d

22. - b

23. - c

2**4.** - a

25. - d

26. - d

27. - d

28. - d

29. - a

30. - b

31. - d

32. - c

33. - a

34. - b **35.** - d

36. - c

37. - b

38. - b

39. - d