



RECREATIONAL
AVIATION AUSTRALIA

APPENDIX 1

TEST QUESTIONS 1-26

PMI

Principles and Methods of Instruction:
Techniques to improve training



Question 1
Define Learning.

Answer

Question 2
Explain what is meant by perception.

Answer

Question 3
Explain the relative importance of each physical sense in learning.

Answer

Question 4

Explain how the defence mechanisms listed may hinder learning.

- Rationalisation
- Flight
- Aggression
- Resignation

Answer

Question 5

Explain how the level of stress may affect learning.

Answer

Question 6

Explain the relationship between perception and understanding.

Answer

Question 7

Give an example of how a flight instructor would assist the process of perception and understanding.

Answer

Question 8

State how positive and negative motivation affects learning?

Answer

Question 9

Explain the application of the levels of learning.

Answer

Question 10

State examples of how rote learning, understanding of knowledge and correlation apply to flight training.

Answer

Question 11

Identify the outcomes of aeronautical knowledge instruction associated with the 3 domains of learning?

- Cognitive (knowledge)
- Affective (attitudes, beliefs and values)
- Psycho-motor (physical skills)

Answer

Question 12

Explain the factors that may hinder learning with respect to aeronautical knowledge training.

Answer

Question 13

Explain how the rate of learning may vary with practice.

Answer

Question 14

Explain the role of each of the memory systems in terms of the model of information processing.

- Sensory register
- Short term memory
- Long term memory

Answer

Question 15

Give examples of positive and negative transfer in aeronautical knowledge training.

Answer

Question 16

Explain how an Instructor may monitor whether communication has been achieved.

Answer

Question 17

Explain the role of each factor listed in the communication process.

- Source
- Symbols
- Receiver

Answer

Question 18

Recall how these common barriers affect communication.

- Lack of common experience
- Confusion
- Abstractions

Answer

Question 19

Identify adult learning issues applicable to aeronautical knowledge training.

Answer

Question 20

Explain each of the basic steps of the teaching process:Preparation

- Preparation
- Presentation
- Application
- Review and Evaluation

Answer

Question 21

State the purpose of behavioural (performance based) outcomes in flight training.

Answer

Question 22

Explain the following attributes of effective outcomes:

- Achievable
- Observable
- Measurable

Answer

Question 23

Explain how to develop the three essential elements of behavioural outcomes:

- Performance (what has to be done)
- Performance criteria
- Conditions

Answer

Question 24

Explain the advantages and disadvantages of the teaching methods listed and give practical examples of situations best suited to each of these techniques in flight training.

- Lecture
- Theory or skill lesson
- Group learning
- Guided discussion
- Briefing

Answer

Question 25

State the reasons for limiting the duration of lessons and indicate the desirable duration of a typical lesson.

Answer

Question 26

Explain the general purpose and content of each of the components of a typical aeronautical knowledge lesson plan:

- Aim/motivation/revision
- Outcomes
- Explanation of principles
- Threat and error management
- Practice
- Review

Answer





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TEST QUESTIONS 27-52

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Question 27

Explain the purpose and content of a training syllabus (or curriculum).

Answer

Question 28

Explain the difference between a training syllabus and competency based standards.

Answer

Question 29

Explain the advantages of guided discussion in flight training and identify flight training activities for which this technique could be suitable.

Answer

Question 30

Explain the reasons for questioning trainees.

Answer

Question 31

Explain the characteristics of an effective question.

Answer

Question 32

Give examples of good and poor questions.

Answer

Question 33
Explain the purpose of training aids.

Answer

Question 34
Give examples of training aids particularly suited to aeronautical knowledge training.

Answer

Question 35

Explain the role of the instructor in each of the following phases of review and evaluation.

- Fault analysis (diagnosis)
- Competency assessment
- Trainee self assessment
- Training effectiveness

Answer

Question 36

How can oral questions promote mental activity?

Answer

Question 37

Why will oral questions maintain student interest during a lesson?

Answer

Question 38

Explain the role of the instructor in each of the five steps involved in providing skill practice to trainees.

- Explanation
- Demonstration
- Performance
- Supervision
- Evaluation

Answer

Question 39

What is the drawback in using oral questions to evaluate learning?

Answer

Question 40

Consider the following three questions: For each one decide if it meets all the qualities of a good oral question. If it does not, why not?

- Was Sir Edmond Barton the first Prime Minister of Australia?
- What goes up the barrel of a rifle?
- In the event of canonic paralysis induced anxiety neurosis, what is the most efficacious procedure for prevailing upon the parachutist to abandon the aircraft?

Answer

Question 41

After asking the question, why pause before naming a student to answer?

Answer

Question 42

Why is it essential that the Instructor always confirm answers to questions?

Answer

Question 43

What technique would you use if a student answers a question and all the class cannot hear it?

Answer

Question 44
Why should group answers be discouraged?

Answer

Question 45
State three points to observe in the handling of student answers.

Answer

Question 46
State five points to observe in the handling of student questions.

Answer

Question 47

At what time in a lesson should students be encouraged to ask questions?

Answer

Question 48

How would you handle a students question if it did not pertain to the lesson?

Answer

Question 49

How would you handle a question for which you were unable to provide the answers?

Answer

Question 50

State four purposes of oral questions.

Answer

Question 51

State the procedure to follow when asking a question.

Answer

Question 52

State four qualities of good oral questions.

Answer
