



EAST AFRICAN SCHOOL OF AVIATION
FINAL EXAMINATION
SUBJECT: CLASSIFICATION

Duration: 2 HRS

DATE:

Time: 1100 -1300hrs

INSTRUCTIONS TO ALL CANDIDATES

- 1. Answer all questions*

Answer the following Questions and indicate the reference:

1. What are Liquid desensitized explosives? (3 marks)
- _____
- _____
- REF: _____
2. Pathogens are defined as _____
- REF: _____
3. What does the following Packing group represent: (3 marks)
- Packing group I - _____
- Packing group II - _____
- Packing group III - _____
4. Division _____ takes precedence over all other divisions. (2 marks)
- REF: _____
5. Define Packing group: (3 marks)
- _____
- _____
- REF: _____
6. Division 2.1 takes precedence over Division _____ (2 marks)
- REF: _____
7. List the three specific responsibilities of the shipper relative to the classification of Dangerous goods. (6 marks)
- _____
- _____
- _____
- REF: _____ (2 marks)
8. Water reactive substances is also known as _____ REF: _____ (2 marks)
9. What is the applicable packing group for a tear gas substance with an Oral toxicity of 100mg/kg and an Inhalation toxicity of 3mg/L? _____
- REF: _____

Answer the following Questions as True or False and indicate the reference:

- (10 marks)
10. Division 1.1 are very insensitive substances having a mass explosion hazard.
A. True B. False REF: _____
11. Lithium batteries are classified into?

- A. Class 3 C. Class 6
 B. Class 9 D. Class 10 REF: _____
12. _____ are referred to as viscous
 A. Thick sticky liquids C. Corrosives
 B. Dangerous when wet D. Flammable liquids REF: _____
13. Packing groups are expressed in numerals.
 A. True B. False REF: _____
14. The term water-reactive refers to a flammable liquid?
 A. True B. False REF: _____
15. Class 3 has no subdivisions.
 A. True B. False
16. Gases of division 2.3 contained in an aerosol are not forbidden from transport?
 A. True B. False REF: _____
17. Substances which when in contact with liquids/ alcohols are known as dangerous when wet?
 A. True B. False REF: _____
18. Class 10 is Organic peroxide
 A. True B. False REF: _____
19. Environmentally hazard label's symbol are Fish and Flame?
 A. True B. False REF: _____

Circle the correct answer

20. Class _____ do not have divisions. (2 marks)
 A. 1,4,5,6 C. 3,7,8,9
 B. 2,3,4,5 D. 1,2,3,4
21. Substances which present a danger during air transport that is not covered in under any other Class is classified as:
 A. Other substances C. Miscellaneous
 B. General cargo D. Corrosive
22. Match the following Packing group criteria for Toxic substances: (4 marks)
- a) Packing Group I
 b) Packing Group II
 c) Packing Group III
- i) Substances and preparations presenting a serious toxicity risk
 ii) Substances and preparations presenting a very severe toxicity risk
 iii) Substances and preparations presenting a relatively low toxicity risk REF: _____

23. Match the following Definitions with its appropriate Class/Division: (6 marks)

- a) Extremely insensitive articles which do not have a mass explosion hazard
- b) Substance, which present a danger during air transport that is not covered in any other class.
- c) Substances, which in themselves are not necessarily combustible, but may generally cause or contribute to the combustion of other material by yielding oxygen.
- d) Self-reactive substances
- e) A substance that are liable to cause injury or death when inhaled, swallowed or absorbed through the skin

- i) Division 1.6
- ii) Division 6.1
- iii) Class 9
- iv) Division 4.1
- v) Division 5.1

REF: _____

(20 marks)

24. Assign the following substances for Flammable liquids, Toxic and Corrosive substances to their applicable Packing group:

- | | | |
|----------------------------|--------------------------------|----------------------------|
| a) BP 38°C
FP 16.5°C | i) OT 5.1mg/kg
IT 0.3mg/L | q) OT 60 min
EP 58 min |
| b) FP 63°C
BP 29°C | j) DT 200mg/kg
IT 1.9mg/L | r) ET 2 hrs.
OT 10 days |
| c) BP 37°C
FP 60°C | k) IT 3mg/L
DT 50mg/kg | s) OT 2 weeks
ET 55 min |
| d) BP 32°C
FP 19.4 | l) OT 150mg/kg
DT 1000mg/kg | t) ET 3 hrs
OT 35 min |
| e) BP 34°C
FP 62°C | m) DT 950 mg/kg
IT 4mg/L | REF: _____ |
| f) FP 18.5°C
BP 105°C | n) IT 3.8mg/L
OT 49.5mg/kg | |
| g) BP 34.99°C
FP 22.8°C | o) DT 35mg/kg
OT 5mg/kg | |
| h) FP 23.2°C
BP 35.3°C | p) OT 298mg/kg
IT 0.29mg/L | |
| REF: _____ | REF: _____ | |

25. Match the following:

(4 marks)

- a) Packing group I
- b) Packing group II
- c) Packing group III

- I) Substances that cause irreversible skin damage of intact skin tissue with observation period of up to 14 days starting after the exposure time of more than 3 minutes but not more than 60 minutes
- II) Substances that cause irreversible damage of intact skin tissue within an observation period of up to 60 minutes starting after the exposure time of 3 minutes or less
- III) Substances that cause irreversible damage of intact skin tissue within an observation period of up to 14 days starting after the exposure time of more than 60 minutes but not more than 4 hours.

REF: _____

Answer the following Questions and indicate the reference:

(18 marks)

26. Substances which are dissolved or suspended in water or other liquid substances to form a homogeneous liquid mixture, to suppress their explosive properties are known as:
_____ REF: _____
27. Gas, which when mixed with air in certain proportions, form a flammable mixture belongs to which Class/Division? _____ REF: _____
28. A substance has two hazards, Class 3 PG III, and Division 6.1, PG III. What is its primary hazard?
_____ REF: _____
29. Dangerous goods are divided into _____ classes? REF: _____
30. The order in which the Classes are shown does not imply a relative degree of danger or the _____ of hazard involved. REF: _____
31. What packing group would be assigned to a tear gas substance with an oral toxicity of LC50 150mg/kg and an inhalation toxicity of LC50 2.8mg/L? _____ REF: _____
32. Indicate whether the following articles or substances are compatible with each other:
a) Division 5.2 and Class 9 - _____
b) Class 8 and Division 2.1 - _____
c) Class 8 and Division 5.1 - _____
d) Class 8 and Division 4.3 - _____
e) Division 2.3 and Division 4.1- _____ REF: _____

(12 marks)

33. Indicate which Class or Division does the following articles or substances of Dangerous Goods belong to:

SUBSTANCE	CLASS/DIVISION	UN NUMBER
a) London purple	_____	_____
b) Mercuric nitrate	_____	_____
c) Dry ice	_____	_____
d) Benzoyl chloride	_____	_____
e) Furan	_____	_____

REF: _____

(6 marks)

34. Determine the Primary hazard of the following Class/Division:
- a) Class 3 PG II and Division 6.1 (d) PG I - _____
- b) Division 4.3 PG I and Class 8(s) PG II - _____
- c) Division 4.2 PG III and Division 6.1 - _____
- d) Class 8 PG I (s) and Class 3 PG III - _____
- e) Division 5.1 PG III and Division 4.2 - _____

REF: _____