



**EAST AFRICAN SCHOOL OF AVIATION**  
**FINAL EXAMINATION**  
**ACM 04**  
**SUBJECT: DGR PACKAGING SPECIFICATIONS**

Duration: Two Hrs.

DATE:

TIME: 1400 – 1600hrs

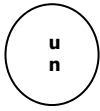
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INSTRUCTIONS TO ALL CANDIDATES

1. *Answer all questions*

1. Is the Indicated UN Specification Marking correct for the following substances? [2]

UN Specification Marking	Substance	Correct (YES/NO)
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4G/ Z15/S/19/  
GB/DB999

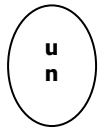
5L UN 1719  
PG III, UN 4G

Combination packaging

\_\_\_\_\_

2. Is the Indicated UN Specification Marking correct for the following substances? [2]

UN Specification Marking	Substance	Correct (YES/NO)
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1A1/ Z15/S/19/  
GB/DB999

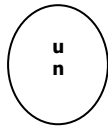
20kg UN 2940  
PG II, UN 1A1

Single packaging

\_\_\_\_\_

3. Is the following package acceptable for transport on a passenger aircraft? [4]

One fiberboard box marked:



4G/ Z25/S/19/  
A/EB 170790

contains:

Cobalt naphthenates, powder in 2 plastic bottles each in 10kg

Caesium nitrate in 1 plastic bottle 2kg

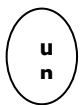
The gross weight of the fibreboard box is 27kg.

4. Assuming the same substances above (c) are repacked into a suitable UN Specification Fibreboard box. Determine: [4]

The applicable PG \_\_\_\_\_

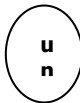
The "Q" Value \_\_\_\_\_

5. A shipper wants to pack a quantity of 20kg UN 1813, Potassium hydrogen sulphate, without using inner packagings. The following packagings are in stock. Which packaging must be used? Justify your answers [8]



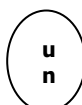
4N/ Z33/S/19/NL/MIE 03

\_\_\_\_\_



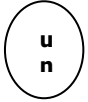
1A1/ Y1.56/150/19/A/WESER

\_\_\_\_\_



3H2/ Y30/S/14/NL/MIE 109

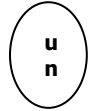
\_\_\_\_\_



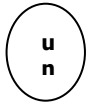
Justify your answers:

5. Answer the following questions appropriately

a) Decode the following UN Specification Mark. [8]



1A1/ X1.4/300/19/D/BAM/7929KHV



=

1A1

=

X

=

1.4

=

300

=

19

=

D

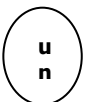
=

BAM/7929KHV

=

b) Decode the following UM Specification Mark.

[8]



=

1D

=

Y

=

25

=

S

=

19

=

GB

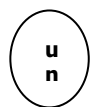
=

2882

=

c) Decode the following UM Specification Mark.

[8]

 =

4G =

Class 6.2 =

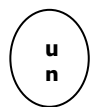
19 =

S =

Sp9989 =  
ERIKSSON

d) Decode the following UM Specification Mark.

[8]

 =

4G =

v =

x =

10 =

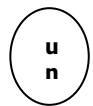
s =

19 =

USA =  
+AA0439

e) Decode the following UM Specification Mark.

[8]

 =

1A2 =

T =

Y =

60 =

S =  
 19 =  
 A =  
 Pa-2-6940B =

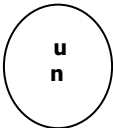
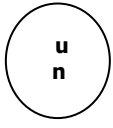
6. Answer the following questions appropriately

a) For the following types of packagings, state the maximum net Capacity. Give references (8)

1. 1H1: \_\_\_\_\_
2. 3H2: \_\_\_\_\_
3. 4H1: \_\_\_\_\_
4. 4H2: \_\_\_\_\_
5. 5L3: \_\_\_\_\_
6. 5H3: \_\_\_\_\_
7. 6HA1: \_\_\_\_\_
8. 6HD2: \_\_\_\_\_

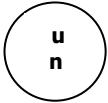
b) Which of the following packaging are suitable for use in carriage of the substances here under?

c) Is the Indicated UN Specification Marking correct for the following substances?  
 (4)

UN Specification Marking	Substance	Correct (YES/NO)
 4G/ Z20 /04 USA/DB999	10kg UN1458 PG III, UN 4G Combination packaging	_____
 4G / X100/ S /04 NL / VL900	UN3332 Combination packaging	_____

d) A toxic substance has an inhalation toxicity by dust and mist (LD<sub>50</sub>) What Packing Group applies to this Substance?  
 (2)

e) In the following UN package specifications marking, what do the markings 4C2 and UA signify?  
 (2)


 4C2/Z50/S/10/  
 UA/651OCEAN

"4C2" \_\_\_\_\_ DGR\_\_\_\_\_

"UA" \_\_\_\_\_ DGR\_\_\_\_\_

- f)** May a class 3 Packing Group II substances be transported as 'Consumer commodities'? Give references (2)

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DGR\_\_\_\_\_

End of Paper