

Sample DGSA Examination Papers March 2019 onwards

Paper 1

NOTE TO CANDIDATES

1. Answers to questions must be given in the space provided below each question.

2. In your answers use of the following are permitted:

ADR ADR Agreement 2019

CDGRR European Communities (Carriage of Dangerous Goods by

Road and use of Transportable Pressure Equipment)

Regulations consolidated version updated to 31st December

2017

https://www.hsa.ie/eng/Your Industry/ADR Carriage of Dang erous Goods by Road/ADR General Information/Legislation/

SI_No_349_of_2011_CONSOLIDATED.pdf

3. All answers **must** be in ink.

- **4.** If you need extra space, write 'continued' and finish your answer in the space provided at the end of this booklet. Make sure you mark any continuation with the question number.
- **5.** Rough work, not intended to be read by the marker, should be scored out.
- **6.** No part of this booklet is to be torn out. No writing is allowed on any other paper.
- 7. No unauthorised material may be brought into the examination room.
- **8.** No talking or other means of communication between candidates is allowed during the examination. Any candidate found to be doing so will be subject to instant dismissal from the examination room. All queries should be directed to an invigilator.
- **9.** All queries should be directed to an invigilator.
- **10.** You may not leave the examination room during the first 30 minutes or last 15 minutes of the examination unless you are ill. In this case, let an invigilator know and s/he will make sure the correct procedure is followed.
- 11. You must hand your booklet to an invigilator before leaving.
- **12.** Booklets must not be removed from the examination room under any circumstances.

Note: When you use a reference document to find your answer, you must include the following information – the document title and, as appropriate, the relevant paragraph numbers, sub-paragraph numbers, section, regulation, and schedule.

Marks may be lost if relevant detail is omitted.

Dangerous Goods Safety Adviser Examination Paper 1 50 Marks

Pass Mark 65% (32 Marks)

1. Murnaghan & Co manufacture fuel additives. They decide to market a new liquid formulation which has the following properties:

Flashpoint 39°C

Reference(s):

Boiling Point 73°C

Tests show that it will destroy intact skin tissue in a contact time of 2 hours 45 minutes during an observation period of 10 days.

a. Classify the formulation explaining your decision. State its class and subsidiary risks.

(4 Marks)

	(+ 17141 NS)
Reference(s):	
names Thet	ous ingredients of the formulation are substances with the technical a and Rho. Choose a suitable Proper Shipping Name and UN number aulation. Show how the Proper Shipping Name would be written on a ocument.
	(4 Marks)

A pac	ckage bear	s the UN certification code
		3B2/Y1.7/100/13/IND/ZZ75
a. E	Explain each	h of the following elements of the code.
I.	(I)	
II.	3B2	
III.	Y1.7	
IV.	100	(5 Marks)
	rence(s):	
b. W	Vhat is the	maximum permitted period of use for plastics drums intended for the UN 2031 with more than 55% Nitric Acid?
b. W	Vhat is the	maximum permitted period of use for plastics drums intended for the UN 2031 with more than 55% Nitric Acid? (3 Marks)
b. W	Vhat is the	UN 2031 with more than 55% Nitric Acid?
b. W tr	What is the ransport of rence(s):	UN 2031 with more than 55% Nitric Acid?
b. W tr	What is the ransport of erence(s):	UN 2031 with more than 55% Nitric Acid? (3 Marks)
b. We tr	what is the ransport of rence(s):	UN 2031 with more than 55% Nitric Acid? (3 Marks)
b. We tr	what is the ransport of rence(s):	UN 2031 with more than 55% Nitric Acid? (3 Marks) quid adhesive is to be transported from Limerick to Killarney in 50 to the ADR regulations, who is responsible for using packaging
b. We tr	what is the ransport of rence(s):	UN 2031 with more than 55% Nitric Acid? (3 Marks) quid adhesive is to be transported from Limerick to Killarney in 50 to the ADR regulations, who is responsible for using packaging r and suited to the carriage of the adhesive?

Reference(s):	
_	marks and label(s) should appear on the drums? You may assume sive is not dangerous for the environment.
	(3 Mark
Reference(s):	
of 2000 litres fro	de solution of Packing Group III is to be transported in consignments om Dusseldorf, Germany, to Antwerp, Belgium. It is proposed to use kagings of 25 litres.
	stance be transported in Large Packagings in these inner packagings? ranswer as fully as you can.
	(4 Mark
Reference(s):	
5.1 on the sa	ible to transport two pallets of 200 litre drums of a substance of class ame vehicle as the large packaging of sodium hydroxide solution? r answer as fully as you can.
	(3 Mark
Reference(s):	
Reference(s).	
What is the max	imum interval between a periodic inspection for an ADR tank swap or the transport of liquids?
What is the max	· · · · · · · · · · · · · · · · · · ·

b. According to ADR who when handing over for carriage packed dangerous goods

shall check whether the packaging is damaged?

	at would you recommend to the undertaking?	A for the
		(2 Marks)
Reference(s):		
How many haza	rd groups are there in	
. Class 2 accor	rding to ADR?	
		(2 Marks)
Reference(s):		
o. What is the o	classification code for articles containing toxic substance, N	I.O.S.?
		(3 Marks)
Reference(s):		
_	· · · · · · · · · · · · · · · · · · ·	in IBCs
State the danger	placards which should be displayed on the container and w	here.
		(3 Marks)
Reference(s):		
1	nside a large co	a consignment of 70 x 200 litre drums of ethyl formate is to be transported uside a large container from Rome, Italy, to Zurich, Switzerland. tate the danger placards which should be displayed on the container and we reference(s):

- 9. The ADR requires a notification of occurrences involving dangerous goods to be made to the competent authority using a model report. These reports must be made in certain circumstances.
 - i. A report of this kind must made if a person requires a stay in hospital for at least how many days?
 - ii. A report of this kind must be made if there is a release of how much of a Transport Category 2 dangerous good?
 - iii. Name any two participants with safety obligations who may be required to ascertain that such reports are made?

(4 Marks)

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Rafaranca(s).	İ		
Reference(s):	İ		
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Reference(s).			

10. Receptacles used for the transport of gases of the ADR Class 2 and their fittings, that are not fully in compliance with Chapter 6.2 of the ADR and that were constructed before 1 July 2003 are allowed to continue to be used for carriage within the State. State any one practical step which needs to be taken with respect to their continued use.

(4 Marks)

Reference(s):	

[END OF QUESTION PAPER]