

Paper 2, November 2021

Complete Q1 and one of questions 2 or 3

Q1 Compulsory

A caste study relating to infectious substances

A 3 marks

- (i) What UN numbers apply to infectious substances that are infectious to humans and to clinical waste unspecified?

- (ii) What UN number applies to Category A medical waste coming from a hospital?

Ref:

B 6 marks

- (i) Can clinical waste unspecified by transported as Limited Quantities? Explain your answer.

- (ii) Can clinical waste unspecified by transported in packaging bearing the packaging marks U
5H1/Y/S/20/IRL/1234? Explain your answer.

Ref

C A packaging bears the packaging code U
4C1/CLASS 6.2/14/D/BAM7889900. Explain the meaning of: 3 marks

4C1

Class 6.2

Ref

D What marks and labels are required on packages containing clinical waste unspecified?

3 marks

Ref

E 8 marks

(i) A carrier picks up 250 kg of clinical waste unspecified from a medical centre. Explain why it is not necessary to display orange plates on the vehicle.

(ii) A small courier van picks up a category A specimen from the same medical centre. Explain why the van must display orange plates

Ref:

F When a driver arrives at a large Dublin hospital to pick up a container with 5 tons of clinical waste unspecified the DGSA asks to see their ADR license. 6 marks

(i) State two problems with the license presented below

ADR DRIVER TRAINING CERTIFICATE

* *

1. (CERTIFICATE No.)1234
2. (SURNAME)Smith
3. (OTHER NAME(S)) John
4. (DATE OF BIRTH 01/04/1976
5. (NATIONALITY) Irish
6. (DRIVER SIGNATURE) *John Smith*
7. (ISSUING BODY) CILT
8. VALID TO: 14/06/2014

VALID FOR CLASS(ES) OR UN Nos.:

TANKS	OTHER THAN TANKS
9. (Enter Class or UN Number(s))*	10. (1, 2, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 7, 8, 9)

(ii) What is the fixed payment in lieu of prosecution for the driver failing to have a valid license with them?

Ref

G The vehicle picking up the waste is only equipped with one 2kg extinguisher. Is this acceptable? 4 marks

Ref

H After delivering the category A sample the driver of the courier van notices that a spillage occurred and the bulkhead between the driver and load compartment, which is made of wood, may have been contaminated. What should be done with this bulkhead? 2 marks

Ref

Q2 A company in Antwerp, Belgium wishes to ship Helium refrigerated liquid in a 40,000L ADR fixed tank to a customer in Ireland

A 4 marks

- (i) State the UN number, class and classification code of the substance

- (ii) Explain the meaning of the classification code

Ref

B 4 marks

- (i) Can it be carried in an ADR fixed tank?

- (ii) Explain this ADR tank code

Ref

C 5 marks

- (i) What is the maximum degree of filling allowed?

- (ii) The tank is not baffled and has been filled to 70% capacity. Is this allowed?

Ref

D

5 marks

- (i) What is the definition of holding time?

- (ii) What information must be added to the transport documents in relation to holding times?

Ref

E In relation to the tank

6 marks

- (i) What is the interval between periodic inspections?

- (ii) What is the interval between intermediate inspections?

- (iii) Under what circumstance may the hydraulic pressure test of a vacuum-insulated tank be replaced by a leakproof test?

- (iv) What is the minimum test pressure for the leakproof test?

Ref

F What placards and plates must be applied to the tank vehicle?

4 marks

Ref

G The supplier intends to ship multiple consignments and in assessing the suitability of Dublin port has determined that the Dublin Tunnel is a category C tunnel

3 marks

Will the vehicle be allowed to enter the tunnel?

Ref

H

4 marks

- (i) What type of vehicle is required to carry the substance?

- (ii) How often must the vehicle be subjected to a technical inspection?

- (iii) What is the purpose of a battery master switch?

Ref

Q3 A supply company distributes janitorial cleaning products in IBCs, drums to various customers.

A 6 marks

(i) One of the products is a caustic alkali liquid. What is the class, UN number and classification code?

(ii) They also distribute flammable corrosive aerosols. What is their class, UN number and classification code:

Ref

B 5 marks

(i) One of the caustic alkali liquids is assigned to packing group III and is transported in 31HH2 IBCs. Is this allowed? Explain your answer.

(ii) They also supply the caustic alkali liquid as packing group II strength liquid. Can the same IBC be used for this material? Explain your answer.

Ref

C 6 marks

(i) A customer orders a 1,100 L IBC of the packing group III material. Does the delivery driver need an ADR licence? Justify your answer.

(ii) Another customer orders 40 x 20L jerricans of the Packing group II strength material. Does the delivery driver need an ADR licence? Justify your answer.

Ref

D

6 marks

- (i) What are the standard dimensions of the orange plates that need to be displayed on the transporting vehicle?
- (ii) Where on the vehicle must the plates be located?
- (iii) What must be done with the plates when the goods have been delivered and there are no longer any dangerous goods on board the vehicle?
- (iv) If the plates are covered, what requirements apply to the covering in the event of a fire?

Ref

E The goods are transported in a 5 ton vehicle

4 marks

- (i) What is the minimum total capacity of fire extinguishers required to be carried in the vehicle?
- (ii) What is the minimum capacity of the fire extinguisher required for the cab?
- (iii) What is the minimum capacity of the additional fire extinguisher?
- (iv) What marks must be displayed on the fire extinguishers to show that it is still safe to use?
- (v) What standard is applicable to the fire extinguishers. You may be brief in your answer.

Ref

F Is an emergency escape mask required when carrying the goods? 3 marks

Ref

G They also provide a service where they take back the used aerosol cans which will then be sent for disposal packaged in accordance with LP 200 and special provision 327. What precautions are required in the event that liquid may escape for the aerosols? 2 marks

Ref

H Can a vehicle with a closed box body be used to transport the waste aerosols in the large packaging which typically weigh 40 kg? 3 marks

Ref