Paper 1 July 2021 Time allowed 1 hour 45 min **Answer all questions** Q1 a) When tested an aqueous solution of sodium hydroxide was found to cause irreversible damage of intact skin after an exposure time of 20 minutes and an observation of 3 hours. What class and packing group should be assigned to this material? Show how you arrive at your answer. A diluted version of this solution did not cause irreversible damage to healthy skin but did b) corrode aluminium at a rate of 8 mm per year. What class and packing group applies to this solution? c) Select a UN number and proper shipping name for the diluted solution? Ref: Q2 a) Tetrabromomethane is to be packed in fibreboard boxes each containing 4 x 1L bottles. Can these boxes be shipped as limited quantity packages? Justify your answer. b) What labels and marks should be applied to the package? Ref: Q3 Can sodium hydrosulphide with 10% water of crystallization be packed together with Phenetidines, and if so, under what conditions?

Ref:

to retai	a) Lithium ion batteries with a Watt hour rating of 5.5 Wh are packed in blister packs ling 4 batteries per blister pack. The blister packs are then placed 10 to a box for distribution I outlets. What marks and labels are required to be displayed on the boxes. Provide all t details.
b)	What other conditions apply to the packages?
Ref	
_	A chemical distributor in Italy is shipping Chloroacetonitrile to a customer in Hungary. The are packaged in combination packages which are then placed on a pallet and covered with nrink wrap. The UN number and a no 6.1 label is displayed on the outside of the shrink wrap.
a)	Is this sufficient?
b)	What languages are required for the marking?
Ref:	
Q6	Can Cyclopropane be transported in cylinders and pressure drums?
Ref	
Q7 tank ve	a) State two of the subjects that must be covered in a specialization training for drivers of hicles
	b) What is the period of validity of a driver's certificate?

Q8 A doctor wishes to send a blood sample from a patient who they suspect h Hepatitis B to a lab for confirmation. What UN number and packing instruction ap	
Ref	
Q9 a) When preparing to set out on his journey a driver of a dangerous goods a friend coming off night shift if he can have a lift home as he will be passing his hothis permitted?	
b) The driver was a smoker but has now switched to E-cigarettes. Can he vape whi	le driving?
Ref	

Ref