	Single input sequence tasks						Dual input sequence tasks																
	SST	IMDB	Yelp	Amazon	20News	Tweets	SNLI	QQP	Babi1	Babi2	Babi3	CNN											
Model configuration																							
Model LSTM variation	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla	Vanilla											
Attention type	tanh	tanh	tanh	tanh	tanh	tanh	tanh	tanh	tanh	tanh	tanh	tanh											
Embedding dim	300	300	300	300	300	300	300	300	50	50	50	300											
Embedding voc	13.826	12.487	63.328	49.883	6.515	6.845	20.981	26.635	24	38	39	70.190											
Pre-embed	FastText	FastText	FastText	FastText	FastText	FastText	GLOVE	GLOVE	None	None	None	FastText											
LSTM hidden dim	256	256	256	256	256	256	256	256	64	128	128	256											
Output size	1	1	1	1	1	1	3	2	36 (6)*	36 (6)*	36 (6)*	584 (26)*											
Optimizer hyperparamete	<u>rs</u>																						
Diversity weight (if applic	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.2											
Batch size	32	32	32	32	32	32	128	128	32	64	64	90											
Optimizer	Adam	Adam	Adam	Adam	Adam	Adam	Adam	Adam	Adam	Adam	Adam	Adam											
LR	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001											
Weight decay	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05	1,E-05											
Epochs	8	8	8	8	8	8	25	25	100	200	200	12											
Trainable weights, including fine-tuning of embeddings																							
Pencoder	4.719.192	4.317.492	19.569.792	15.536.292	2.525.892	2.624.892	6.865.692	8.480.892	30.896	94.060	94.110	21.628.392											
Qencoder	0	0	0	0	0	0	6.865.692	8.480.892	30.896	94.060	94.110	21.628.392											
Decoder	33.281	33.281	33.281	33.281	33.281	33.281	132.099	131.970	9.540	35.428	35.428	207.048											
Total	4.752.473	4.350.773	19.603.073	15.569.573	2.559.173	2.658.173	13.863.483	17.093.754	71.332	223.548	223.648	43.463.832											
Trainable weights, without fine-tuning of embeddings																							
Pencoder	571.392	571.392	571.392	571.392	571.392	571.392	571.392	571.392	n/a	n/a	n/a	571.392											
Qencoder	0	0	0	0	0	0	571.392	571.392	n/a	n/a	n/a	571.392											
Decoder	33.281	33.281	33.281	33.281	33.281	33.281	132.099	131.970	n/a	n/a	n/a	207.048											
Total	604.673	604.673	604.673	604.673	604.673	604.673	1.274.883	1.274.754	n/a	n/a	n/a	1.349.832											
* Output size is	numer of tot	al entities in	the dataset,	part of which	is masked in	each datapo	int (numer of o	categories use	d on average	per data poi	* Output size is numer of total entities in the dataset, part of which is masked in each datapoint (numer of categories used on average per data point)												