SCHOOL OF PHARMACY

DE MONTFORT UNIVERSITY LEICESTER

Leicester School of Pharmacy
De Montfort University
Pharmacy Applicant Selection Event

Sample Paper
Numeracy

TEST DURATION:	**10 minutes (please note the full test lasts 30 minutes)**
NUMBER OF QUESTIONS:	**8 (please note the full test has 25 questions)**
NUMBER OF MARKS:	**10 (please note the full test has 30 marks)**
	Questions 1-8 carry ONE mark each
	Questions 9 carries TWO marks
	Incorrect answers score zero

You should answer all of the questions.
Use of a calculator is **NOT** allowed.
You may write rough calculations to help you in the spaces provided on each page.
Select the single best answer **ONLY** and indicate your choice on the optical mark reader form provided, you must do this in pencil (for information only during mock test, forms will be provided on the day).
Note that $1cm^3 = 1mL$.

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1) 7 x -6 =
   a) 42
   b) -42
   c) 56
   d) -56
   e) 67

2) 55 ÷ 0.0001 =
   a) 0.00055
   b) 0.000055
   c) 0.0055
   d) 550000
   e) 55000

3) 25% of 500 =
   a) 125
   b) 100
   c) 250
   d) 175
   e) 50

4) 14.682551 expressed to 3 significant figures =
   a) 14.682
   b) 14.683
   c) 14.6
   d) 14.7
   e) 14.68

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5) An antibiotic mixture contains 200mg of drug per 2.5mL dose. How many mg of drug are in a 50mL bottle?
   a) 4000mg
   b) 100000mg
   c) 5000mg
   d) 2500mg
   e) 50000mg

6) How much does 0.1 moles of sodium chloride weigh? Relative molecular mass sodium is 23.0, relative molecular mass of chlorine is 35.5
   a) 58.5 g
   b) 5.85g
   c) 0.94g
   d) 585mg
   e) 9.4 g

7) b = a - c expressed in terms of *a* =
a) a = b – c
b) a = b + c
c) a = b x c
d) a = -b + c
e) a = -b - c

8) What is one fifth of 500
a) 100
b) 20
c) 25
d) 250
e) 125

9) A Pharmacist receives this prescription:

Phenoxymethylpenicillin suspension (containing 125 mg of phenoxymethylpenicillin per 5 mL) Dose: Take ONE 5 mL spoonful four times daily Dispense 1 x 100 mL bottles

How many days supply of phenoxymethylpenicillin would this bottle provide?

a) 4
b) 6
c) 10
d) 5
e) 25

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