



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: 9 (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
Question 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 $1\text{cm}^3 = 1\text{mL}$.

* We are committed to providing all the items on the itinerary for your interview day. However, due to circumstances beyond our reasonable control, some late changes might be unavoidable since the itinerary was printed. We seek to ensure any changes made will not negatively impact on your experience on the day.

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E: interviews@dmu.ac.uk
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PROUD TO BE MORE



1) $7 \times -6 =$

- a) 42
- b) -42
- c) 56
- d) -56
- e) 67

2) $55 \div 0.0001 =$

- 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

**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) 0000mg

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PROUD TO BE MORE

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) $a = b \times c$
- 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

Answers 1) b 2) d 3) a 4) d 5) a 6) b 7) b 8) a 9) d

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