

COMMONWEALTH OF AUSTRALIA

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Family Name	
Given Names	
Student Number	
Teaching Period	Semester 2, 2016

FINAL EXAMINATION	DURATION
PHA306 – Advanced Pharmaceutics	Reading Time: 10 minutes Writing Time: 180 minutes

INSTRUCTIONS TO CANDIDATES

EXAM CONDITIONS

You may begin writing from the commencement of the examination session. The reading time indicated above is provided as a guide only.

This is a RESTRICTED OPEN BOOK examination

Any non-programmable calculator is permitted

No handwritten notes are permitted

Hard copy, unannotated English translation dictionary only

ADDITIONAL AUTHORISED MATERIALS	EXAMINATION MATERIALS TO BE SUPPLIED
No additional printed material is permitted	1 x 20 Page Book 1 x 5-Multiple Choice Answer Sheet 1 x Scrap Paper

**THIS EXAMINATION IS PRINTED
DOUBLE-SIDED.**

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Section C

Short Answer Questions

Total Number of Marks for this section: see marks allocated per question = 100 Marks.

Answer all **FIVE** questions. This section should be answered in the answer booklets provided.

Start a new page for each question. Suggested Time allocation for Section C: 120 mins

Question 1

- A. Describe three devices designed to administer medications via inhalation diagrammatically.
(three marks each – 9 marks)
- B. Compare the three devices, indicate three differences and three advantages. (three points each - 12 marks)
- C. What happens to a medication when it is inhaled through the mouth in general? (5 marks)
- D. Discuss the relevance of particle size, excipients and formulation of the medication to the absorption site. (3 marks each - 9 marks)

Total of 35 marks

Question 2

Discuss briefly the essential aspects of parenteral preparations under each of the following headings:

1. Formulation
2. Excipients
3. Vehicles
4. Antioxidants
5. Containers
6. Closures
7. Particulates
8. Labelling
9. Preservatives
10. Suspending agents

Between 100 to 500 words each, 3 marks each = 30 Marks

Question 3

Mr BA will be receiving nasogastric enteral feeding and he is receiving his medications by the same route. Discuss the principals of administering medications in an enteral feeding patient.

Include routs, timing, volume, interactions, formula and THREE methods.

(3 marks each - 24 Marks

Question 4

Discuss how energy requirement is determined for patients require TPN for short term and for long term.

3 Marks

Question 5

Discuss the principles of good manufacturing practice for aseptic and cytotoxic preparations.

Include guidelines and standards guide the process in Australia.

8 Marks

END OF SECTION C

END OF EXAMINATION