UNIVERSITY OF BOLTON

FACULTY OF HEALTH AND WELLBEING

BSc (HONS) ADULT NURSING

SEMESTER TWO EXAMINATION 2018/2019

APPLICATION OF MEDICINES MANAGEMENT

MODULE NO: HLT6072

Date: Thursday 7 March 2019 **Time: 10.00 am - 11.30 am**

INSTRUCTIONS TO CANDIDATES:

You must answer ALL questions on this exam paper.

Answer all questions in the booklet provided.

Each question is worth ONE mark.

University approved Calculator can be used (no mobile phones).

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1. **Convert a dose of 725 micrograms into milligrams (mg).**

2. A patient is prescribed 2.5g of Drug A to be given orally, the stock is available in 500mg capsules. **How many capsules will you administer?**

3. A patient has been prescribed 300 micrograms (mcg) of Drug B. The strength of tablets is avaible in 50 micrograms (mcg) tablets.
   How many are tablets required?

4. An intra-muscular injection of 25mg of Drug C is required. The preparation available contains 50mg in 2ml.
   How many millilitres would you administer?

5. **Convert a dose of 2275 millilitres (ml) into Litres (L).**

6. Your patient has been prescribed 0.5g of Drug D orally.
   The solution available is 250mg/2ml.
   How many millilitres (ml) would you administer?

7. A patient has been prescribed 2 Litres of Drug E over 48 hours, via a Volumatic pump.
   How many millilitres would you need to administer per hour? Please round your answer to the nearest whole number.

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8. A blood transfusion of 350 ml is to be given via a blood transfusion set of 15 drops per ml over 4 hours. **Calculate the number of drops per minute the transfusion requires to be set at. Please round the answer to the nearest whole number.**

9. You need to administer 75 micrograms /kg of Drug F, once daily via IV to a patient who weighs 90kg. The medication is available 300 micrograms /ml **What volume in millilitres per dose would you administer? Please round the answer to the nearest whole number.**

10. You are required to administer 275mg of Drug G to your patient orally. The stock solution available is 250 mg/5ml. **How many millilitres would you administer? Please give your answer to one decimal place.**

11. Your patient requires Drug H at a dose of 30mg/kg once daily. The patient weighs 85kg. The product available is 250mg/2ml. **How many millilitres do you need to administer for each dose? Please round your answer to the nearest whole number.**

12. You need to administer 250 micrograms /kg of Drug J subcutaneously to a patient who weighs 80kg. The injection vials are 300mg/2ml **How many millilitres would you administer? Please give your answer to one decimal place.**

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13. Your patient requires an IVI of 500mL 0.9% Sodium Chloride over 6 hours. The drip rate of the infusion is set 20 drops per mL. **Calculate the number of drops per minute the transfusion requires to be set at. Please round the answer to the nearest whole number.**

14. Your patient requires a loading dose of 50mg/kg of Drug K. Your patient weighs 88kg. The preparation available contains 200mg/2ml. **Calculate the amount in millilitres required.**

15. A patient is prescribed 48 tablets of Drug L and is advised to take two tablets twice daily. **How many days will the medication last?**

16. **Covert 500 grams into Kilograms (Kg).**

17. You are required to administer an intramuscular injection of 75mg of Drug N to your patient. The stock solution is available is 250mg/2ml. **How many millilitres would you give?**

18. Your patient requires Drug Q, at a dose of 20mg/kg once daily. Your patient weighs 55kg. The stock is avaible in 300mg/5ml. **How many millilitres would you administer daily? Please round your answer to the nearest whole number.**

19. **Convert 325 milligrams (mg) to grams (g)**.

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20. Your patient has the following intake/ output throughout the day:

Intake

Oral

3 cups of tea (150mls each), 4 glasses of water (150mls each), 2 glasses orange juice (100mls each) and a cup of Horlicks (150mls)
50mls of water with medications at 8am
50mls of water with medications at 10pm

IV

IV antibiotic dose of 100mls at 10am
IV antibiotic dose of 100mls at 10pm

Please calculate the total intake in millilitres

END OF QUESTIONS