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UNIVERSITY OF BOLTON

SCHOOL OF HEALTH AND HUMAN SCIENCES

BSc (HONS) ADULT NURSING

SEMESTER ONE EXAMINATION 2018/2019

APPLICATION OF MEDICINES MANAGEMENT

MODULE NO: HLT6072

Date: Thursday 18 October 2018 **Time: 1.00 pm – 2.30 pm**

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 225 micrograms into milligrams (mg).**

2. A patient is prescribed 2g 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 75 micrograms of Drug B. The strength of tablets is available in 25 micrograms.
   How many tablets are required?

4. An intra-muscular injection of 75mg of Drug C is required. The preparation available contains 50mg in 2ml.
   How many millilitres (ml) would you administer?

5. **Convert a dose of 2750 millilitres (ml) into Litres (L).**

6. Your patient has been prescribed 1g of Drug D orally.
   The solution available is 250mg/5ml.
   How many millilitres (ml) would you administer?

7. A patient has been prescribed 1500mL of drug E over 12 hours, via volumetric pump.
   How many millilitres (ml) would you administer per hour?

8. A blood transfusion of 450 ml is to be given via a blood transfusion set of 15 drops per ml over 6 hours. **Calculate the number of drops per minute the transfusion requires to be set at. Please round the answer to the nearest whole number.**

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9. You need to administer 500 micrograms /kg of Drug F, once daily via IV to a patient who weighs 95kg. The medication is available 300 micrograms /ml **What volume in millilitres (ml) per dose would you administer? Please round to the answer to nearest whole number.**

10. You are required to administer 175mg of Drug G to your patient orally. The stock solution available is 300mg/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 25mg/kg once daily. The patient weighs 85kg. The product available is 300mg/2ml. **How many millilitres do you need to administer? Please round to the nearest whole number.**

12. You need to administer 250 micrograms /kg of Drug J subcutaneously to a patient who weighs 90kg. The injection vials are 300mg/ 5ml **What volume would you administer? Please give your answer to two decimal places.**

13. Your patient requires an IVI of 1000mL 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 78Kg. The preparation available contains 300mg/ml. **Calculate the amount in millilitres required.**

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15. A patient is prescribed 20 tablets of Drug L and is advised to take two tablets twice daily. **How many days will the medication last?**

16. Your patient who weighs 65 kg requires 50 micrograms/kg of Drug M, via IV. The medication is available in 150 micrograms /ml. **How many millilitres would your patient require per dose? Please round to nearest whole number.**

17. You are require to administer an intramuscular injection of 55mg of Drug N to your patient. The stock solution is avaible is 160mg/2ml. **How many millilitres would you give? Please give your answer to one decimal place.**

18. **Convert 3500 micrograms to grams (g).**

19. Your patient requires Drug Q, at a dose of 3mg/kg once daily. Your patient weighs 82kg. The stock is available in 300mg/ml. **How many millilitres would you administer daily? Please give your answer to one decimal place.**

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

Intake
Oral
2 cups of tea (150mls), 3 glasses of water (175mls), 2 glasses orange juice (200mls) and a cup of Horlicks (150mls)
100mls of water with medications at 8am
100mls 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.

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END OF QUESTIONS