UNIVERSITY OF BOLTON

FACULTY OF HEALTH AND WELLBEING

BSc (HONS) ADULT NURSING

SEMESTER TWO EXAMINATION 2018/2019

PRINCIPLES OF MEDICINES MANAGEMENT

MODULE CODE: HLT5018

Date: Friday 1 February 2019   **Time: 1.30 pm – 3.00 pm**

INSTRUCTIONS TO CANDIDATES: There are **25** questions.

Answer **ALL** questions.

Marks for parts of questions are shown in brackets.

Equipment allowed: Calculator

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NUMERACY QUESTIONS

1) You are required to administer 120mg of Drug A to your patient intramuscularly. The stock solution available is 80mg/1ml. **How many millilitres would you administer?**

1 Mark

2) Your patient is prescribed a total daily dose of Drug B which is 6.75 mg. The patient requires this in three equal doses throughout the day. **How many micrograms is each dose?**

1 Mark

3) Your patient has received an intravenous infusion of 1 litre of saline via volumetric pump over 8 hours and completed at 14.30. At 09.30 am, he has a cup of tea (200ml) and the same again at 11.00 and 12.00 midday. At lunch, he has a 250mls bowl of clear soup and at 2.00pm, he has a glass of juice (150ml). **What is his total fluid intake in litres so far?**

1 Mark

4) **Convert the following: 9.25 milligrams (mg) to micrograms.**

1 Mark

5) A bottle of Drug C contains 270ml. **How many days will the bottle last if the daily dose is 7.5ml QDS?**

1 Mark

6) Your patient requires 1000mls saline over 8 hours. The administration set delivers 15 drops per minute. **Calculate the infusion rate in drops per minute. Please round to the nearest whole number.**

1 Mark

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7) A blood transfusion of 350mls is to be given via a blood administration set (20 drops per ml) over 4 hours. **Calculate the infusion rate in drops per minute. Please round your answer to the nearest whole number.**

1 Mark

8) Your patient has been prescribed 820mg of Drug E, every 12 hours. **What is the daily dose in grams?**

1 Mark

9) A patient is prescribed 1.25g of Drug F to be given TDS; the tablets are 250mg each. **How many tablets would you require for the day?**

1 Mark

10) Your patient requires a dose of 25 mgs /kg of Drug G. Your patient weighs 64.8kg. **What dose of Drug G do you need to give in grams?**

1 Mark

11) Your patient is prescribed 1500 mls of Fluid F to be administered over 12 hours. **How many mls would you administer per hour?**

1 Mark

12) Your patient has been prescribed 675mg of drug E, every 12 hours. **What is the daily dose in grams?**

1 Mark

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13) Your patient requires Drug Q, at a dose of 3mg/kg BD. Your patient weighs 65kg. The stock is available in 300mg/ml. **How many millilitres would you administer daily? Please give your answer to one decimal place**.

1 Mark

14) Your patient requires a dose of 30 mgs /kg of Drug H. Your patient weighs 74kg. **What dose of Drug H do you need to give in grams?**

1 Mark

15) Your patient is prescribed Drug G which is stocked in 80mg in 5 mls vials. He requires 20mg to be administered daily.
How many millilitres (mls) would you administer for each dose?

1 Mark

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MEDICINES MANAGEMENT QUESTIONS

16) **What are the FOUR ethical principles underpinning (bio) medical ethics?**

   2 Marks

17) **Briefly explain the pharmacokinetic processes involved in the following stages:**

   A) Excretion

   B) Metabolism

   2 Marks

18) **Name three parenteral routes of administration of a drug**

   3 Marks

19) **The legal prescriber of medicines has a duty to clearly document several other things on the prescription sheet besides the patient's name, DOB, NHS Number / Hospital Number, can you name 3 more?**

   3 Marks

20) **Name TWO benefits of self-administration of medicine (SAM) in individual patients.**

   2 Marks

21) **Please name TWO actions you would do immediately after administration of oral medication?**

   2 Marks

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22) **What is your understanding about the term concordance with medicines?**

1 Mark

23) **Name 4 symptoms that occur, when a patient is suffering an adverse drug reaction to a medicine you administered?**

2 Marks

24) **What is a patient group directive (PGD)?**

3 Marks

25) **What do you understand by the term half- life of a drug?**

2 Marks

END OF QUESTIONS