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| |  |  | | --- | --- | | **Answer Sheet** | | | **1**.  You are giving a talk to a group of health care workers on iron supplementation. Which of the following statements would you include?  (a) Iron is water soluble and therefore the possibility of an overdose is unlikely.  (b) Serum iron values must be monitored following ingestion to minimise the likelihood of an overdose.  **(c) Iron supplementation in children older than 2 years can only be started once intestinal parasitic infestation has been excluded. √ 1:37:40 PM**  (d) If iron supplementation is required the patient should be treated for 9 months. |  | | **2**.  You have been asked to give a talk on malaria prophylaxis. Which statement is TRUE and could be included in your talk?  (a) Mefloquine is safe to use by breastfeeding mothers  (b) Insect repellents are as effective as chemoprophylaxis  (c) All medicines for malaria prophylaxis should be taken for at least 4 weeks after leaving the area  **(d) Wear long sleeves trousers and socks if outside between dusk and dawn while in the malaria area √ 11:40:21 AM** |  | | **3**.  Which of the following is TRUE regarding accidental ingestion of organophosphate poison?  (a) Treatment is unnecessary if no symptoms present within 6 hours post-exposure  (b) Clinical features of poisoning include dry mouth dilated pupils dry skin tachycardia and hypertension  (c) Treatment with activated charcoal should be started 2 hours post-ingestion  **(d) Refer immediately to the closest hospital for atropine antidote therapy √ 1:02:59 PM** |  | | **4**.  You are working at a medicines information centre and receive a question regarding an acute paracetamol overdose. They want to know whether they should start the patient on acetylcysteine therapy. The plasma concentration of paracetamol four hours after ingestion was 160 µg/ml. Which of the following would be the MOST appropriate advice to give to the doctor?  (a) The doctor must ascertain the glutathione level of the patient before a decision can be made  (b) Activated charcoal should be administered to eliminate any unabsorbed paracetamol  (c) The patient should not be started on acetylcysteine if they are taking hepatic enzyme-inducing medicines  **(d) The plasma concentration level is above the normal treatment line and acetylcysteine is indicated √ 1:06:53 PM** |  | | **5**.  You are phoned by a doctor who wants information about adalimumab therapy. Which of the following statements would be MOST appropraite information to disseminate to the doctor?  (a) The peak serum concentration is reached about 5 hours after administration  (b) Adalimumab therapy is safe to use in a patient with porphyria  **(c) Patient should be screened for tuberculosis infection before initiation of therapy √ 11:46:18 AM**  (d) Patients on adalimumab may not receive vaccinations |  | | **6**.  The number of people who die per 100 000 population in a given year is called the:  (a) Quality adjusted life years  **(b) Mortality rate √ 12:46:30 PM**  (c) Life expectancy  (d) Morbidity rate |  | | **7**.  A hospitalised patient was changed from intravenous ciprofloxacin (400 mg q12h) to oral ciprofloxacin (500 mg q12h) therapy. Calculate the daily drug cost savings if the intravenous product cost is R12.00 per 200 mg and the oral product cost is R2.95 per 250 mg capsule.  (a) R26.80  (b) R33.50  **(c) R36.20 √ 9:08:02 AM**  (d) R18.10 |  | | **8**.  Which of the following is a notifiable medical condition?  (a) German measles  (b) Influenza  (c) Glandular fever  **(d) Leprosy √ 11:51:12 AM** |  | | **9**.  Which of the following statements regarding body mass index (BMI) is TRUE?  (a) BMI is calculated by dividing a person’s weight in kg by their height in cm  (b) BMI value of 28 is representative of a person of healthy weight  (c) BMI value of 18 is representative of a female person of healthy weight  **(d) BMI value of less than 18 is representative of a person that is underweight √ 11:35:07 AM** |  | | **10**.  Which of the following statements regarding immunisation in South Africa is TRUE?  (a) DTP should be given at birth 10 weeks 14 weeks and 18 months  (b) Rotavirus should be given to infants after 24 weeks of age  **(c) Measles should be given at 9 months and 18 months √ 12:34:23 PM**  (c) HPV vaccine should be administered after becoming sexually active |  | | **11**.  Which of the following is a primary symptom of pulmonary tuberculosis?  (a) Persistent rash for more than 2 weeks  (b) Headache for more than 2 weeks  (c) Excessive perspiration during the day  **(d) Unexplained weight loss (more than 1.5 kg in a month) √ 1:22:56 PM** |  | | **12**.  Which of the following statements about the intention of the HIV 90-90-90 strategy is TRUE?  (a) 90% of those who receive antiretroviral therapy will be HIV-free by 2018  (b) 90% of those who receive antiretroviral therapy will be HIV-free by 2020  **(c) 90% of those who receive antiretroviral therapy will be virally suppressed by 2020 √ 11:40:40 AM**  (d) 90% of those who receive antiretroviral therapy will be virally suppressed by 2018 |  | | **13**.  A newly diagnosed patient with ADHD is prescribed methylphenidate 36 mg extended release daily. What is the MOST appropriate counselling point to make?  (a) The patient should chew the tablet and drink a full glass of water afterwards  (b) The tablet should be taken at night after supper  (c) Dissolve the tablet in half a glass of water and drink this after breakfast  **(d) The medication should be taken first thing in the morning √ 12:20:25 PM** |  | | **14**.  You receive the following prescription for a 6-year-old boy:                       Daktacort® cream                      Directions: Apply bd for one week                      Mitte: 50 g   Which of the following statements is TRUE?    **(a) The active ingredients are miconazole and hydrocortisone √ 11:50:59 AM**  (b) It is prescribed for inflamed bacterial infections of the skin  (c) Miconazole has some antibacterial activity against Gram-negative organisms  (d) The cream should be applied twice a day for five days |  | | **15**.  An epileptic patient receives a prescription for phenytoin 300 mg daily as a single dose. During phase 3 of dispensing you SHOULD inform the patient about the following adverse effect:  **(a) Swelling and bleeding of gums √ 11:41:33 AM**  (b) Hypertension  (c) Decreased libido  (d) Elevated cholesterol levels |  | | **16**.  Which of the following medicines necessitates monitoring of blood levels?  (a) Carbimazole  **(b) Lithium √ 12:57:41 PM**  (c) Warfarin  (d) Amoxicillin |  | | **17**.  You are responsible for training a pharmacist’s assistant in the use and maintenance of the fridge. Which of the following statements is MOST appropriate?  (a) Wait until there is 10 mm of ice on the evaporator before defrosting the fridge to ensure stability of the cold chain  (b) The thermometer used in the fridge must be a minimum / maximum thermometer  (c) The temperature of the fridge should be monitored and recorded at least once a day  **(d) The fridge must be connected to an emergency power system to ensure uninterrupted power supply √ 1:09:05 PM** |  | | **18**.  The blood of a reckless driver contains 0.2% v/v alcohol. Express the concentration of alcohol in parts per million.  (a) 2 ppm  (b) 200 ppm  **(c) 2000 ppm √ 10:09:18 AM**  (d) 20000 ppm |  | | **19**.  A pharmaceutical company manufactures a drug containing 5.5 M NaCl. What volume of the drug must be diluted with 500 ml to prepare a 0.15 M saline solution?  (a) 9 165 L  **(b) 18 33 L √ 10:18:17 AM**  (c) 27 50 L  (d) 36 66 L |  | | **20**.  A mother brings her 8-month-old baby into the pharmacy. The mother noticed white patches in the mouth and on the tongue of the baby over the past 24 hours and thinks the baby may have oral candidiasis. What is the MOST appropriate action to take?  (a) Tell the mother to sterilise the feeding bottles with hypochlorite to ensure hygiene and prevent further spread of the candidiasis  (b) Refer the baby to a doctor for a prescription for fluconazole at the appropriate dose  **(c) Tell the mother to use nystatin suspension 100000 IU/ml four times daily for seven days √ 1:18:33 PM**  (d) It is a bacterial infection and can be treated by applying cetalkonium chloride gel to the affected areas 3-4 times daily |  | | **21**.  A patient asks for a tube of aciclovir 5 mg/g topical cream. She tells you that whenever she is exposed to the sun, she seems to be getting cold sores around her mouth area. What is the MOST appropriate counselling to give her?  (a) Start using the cream before exposure to sun  (b) Start using the cream when a scab appears  (c) Start using the cream when a blister appears  **(d) Start using the cream when the area starts tingling √ 12:13:12 PM** |  | | **22**.  A patient arrives at the pharmacy and presents with an exudative wound that occurred 10 days ago.  Which statement about wound management is TRUE?  (a) Topical antibiotics are indicated to treat the wound  (b) Occlusive dressings are indicated for moderately exuding wounds  **(c) Alginate dressings are indicated for moderately exuding wounds √ 12:52:09 PM**  (d) Hydrogel dressings have good fluid handling capacity with exudative wounds |  | | **23**.  A patient visits your pharmacy requesting medication to prevent motion sickness. Which of the following is MOST suitable to give to the patient?  **(a) Promethazine √ 12:46:50 PM**  (b) Cetirizine  (c) Domperidone  (d) Rupatadine |  | | **24**.  Which of the following is the correct amount of hydrocortisone 1% w/w cream and hydrocortisone powder required to produce 75 g of a 3% w/w hydrocortisone cream?  **(a) 1.50 g of the powder and 73.5 g of the 1% w/w cream √ 9:03:44 AM**  (b) 2.50 g of the powder and 72.5 g of the 1% w/w cream  (c) 3.75 g of the powder and 71.25 g of the 1% w/w cream  (d) 7.35 g of the powder and 67.65 g of the 1% w/w cream |  | | **25**.  When reporting an adverse medicine reaction, which of the statements is TRUE?  (a) An adverse medicine reaction for a complementary medicine should not be reported  (b) Only confirmed adverse medicine reaction must be reported  (c) It is senseless to report an adverse medicine reaction if you don’t have all the details  **(d) All reported adverse medicine reactions will be stored in a confidential database and neither the patient nor the reporter’s name will be made available √ 12:41:22 PM** |  | | **26**.  Which of the following statements about Phase II clinical trials is TRUE?  (a) An effective dose is determined  **(b) Effectiveness to treat disease is tested √ 12:09:17 PM**  (c) Healthy individuals are recruited  (d) Short-term safety of the drug is determined |  | | **27**.  The cGMP requires that pharmaceutical companies do Product Quality Reviews (PQR). What is the purpose of product quality reviews (PQR)?  (a) To only tighten the specifications of the product  **(b) To verify consistency of the process and assess trends √ 12:25:26 PM**  (c) To enable post-marketing surveillance  (d) To improve efficiency of product and increase market share |  | | **28**.  Which of the following statements regarding a variance report for a stock take is TRUE?  (a) It is printed before stock take to reconcile the stock shortages  **(b) It is printed after stock take to follow up on discrepancies √ 12:06:17 PM**  (c) It is of no value if regular cycle counts are performed  (d) It is of no value if stock records are electronically updated |  | | **29**.  Which of the following statements regarding procurement and storage of medicine is TRUE?  (a) Most medicine must be stored off the floor  (b) Damaged medicines can be discarded together irrespective of the scheduling  (c) Stock is checked on receipt for quantity and expiry date only  **(d) Flammable substances are stored separately and in an appropriate manner √ 11:42:30 AM** |  | | **30**.  Which of the following formulae indicates the CORRECT method to calculate the reorder point?  (a) Average consumption per unit – lead time + safety stock  **(b) Average consumption per unit x lead time + safety stock √ 11:47:19 AM**  (c) (Average consumption per unit + lead time) x safety stock  (d) (Average consumption per unit + lead time) / safety stock |  | | **31**.  A patient at your pharmacy, whom you have known for a long time, has intermittent eczema that is under control. They were diagnosed with Crohn’s disease a year ago and have been using mesalazine tablets since then. They tell you that their Crohn’s disease has worsened and present the following prescription:   Budesonide 9 mg capsules daily for 3 months.  Which of the following reasons would require you to phone the doctor?  (a) Budesonide is not indicated for Crohn’s disease  (b) There is an interaction between budesonide and mesalazine  (c) The prescribed daily dose of the budesonide is too high  **(d) A course of budesonide capsules should not exceed 8 weeks √ 12:42:44 PM** |  | | **32**.  A 73-year-old female patient regularly visits your pharmacy and has been stabilised on digoxin 0.25 mg daily for atrial fibrillation. Ten days earlier the patient received a prescription for spironolactone 50 mg daily for heart failure and doxycycline 100 mg daily for 14 days for bronchitis. The patient now presents with nausea and vomiting. The patient also complains of a headache, drowsiness as well as confusion.   Which of the following is the MOST likely cause of the patient’s symptoms?  (a) It is most probably caused by a stomach bug. The headache and confusion could be caused by dehydration  (b) The doxycycline is a gastric irritant and could be the cause of the nausea and vomiting. The headache and confusion could be the result of dehydration  (c) Digoxin could cause the spironolactone levels to rise which could lead to toxic levels of spironolactone which may cause the symptoms  **(d) Both spironolactone and doxycycline could cause a rise in digoxin levels which may result in the symptoms experienced by the patient √ 12:19:27 PM** |  | | **33**.  Which of the following is the MOST appropriate information to provide a patient who has been prescribed doxycycline 100 mg capsules for the treatment of acne?  **(a) Take each dose while in an upright position with a full glass of water √ 11:34:42 AM**  (b) Avoid entering a malaria area while on this medication  (b) Take on an empty stomach as the absorption is influenced by food  (d) Take with milk to reduce gastro-intestinal side-effects |  | | **34**.  The patient takes 300 mg dipyridamole daily in three divided doses and propranolol 320 mg daily. Which of the following are the CORRECT amounts of both liquid formulations to be supplied for 10 days?  (a) 100 ml propranolol 50 mg/5 ml oral solution and 50 ml dipyridamole 50 mg/5 ml  (b) 100 ml propranolol 50 mg/5 ml oral solution and 150 ml dipyridamole 50 mg/5 ml  (c) 250 ml propranolol 50 mg/5 ml oral solution and 200 ml dipyridamole 50 mg/5 ml  **(d) 320 ml propranolol 50 mg/5 ml oral solution and 300 ml dipyridamole 50 mg/5 ml √ 9:57:12 AM** |  | | **35**.  How much dihydrocodeine bitartrate and guaiphenesin are contained in each dose of the following prescription?                      Dihydrocodeine bitartrate       0.12 g                      Guaiphenesin                               2.4 g                      Cherry syrup                 ad        120 ml                      Sig. One medicine measure prn for cough  (a) 2.5 mg dihydrocodeine 120 mg guaiphenesin  (b) 6 mg dihydrocodeine 50 mg guaiphenesin  **(c) 5 mg dihydrocodeine 100 mg guaiphenesin √ 9:53:04 AM**  (d) 60 mg dihydrocodeine 120 mg guaiphenesin |  | | **36**.  An oral dose of a medicine is 2.5 mg. A solution contains 0.5% w/v of the medicine and the dropper delivers 12 drops/ml is used. How many drops would be required to supply the necessary dose?  (a) 3 drops  (b) 4 drops  (c) 5 drops  **(d) 6 drops √ 9:45:31 AM** |  | | **37**.  Symbicord® 80/4.5 contains budesonide and formoterol fumarate. If the usual dose is stated as “two inhalations twice daily” how much of each medicine would be administered each day?  (a) 160 µg budesonide and 9 µg formoterol fumarate  **(b) 320 µg budesonide and 0.018 mg formoterol fumarate - [Correct Answer]**  (c) 0.16 mg budesonide and 0.18 mg formoterol fumarate  **(d) 0.80 mg budesonide and 0.005 mg formoterol fumarate × 9:39:19 AM** |  | | **38**.  You must prepare 500 g of a 3.25% w/v magnesium hydroxide solution. What mass of magnesium hydroxide is required to prepare the solution?   The density of the solution is 1.10 g/ml.  (a) 1.47 g  (b) 2.95 g  **(c) 14.77 g √ 9:49:25 AM**  (d) 16.25 g |  | | **39**.  You have the following zinc oxide ointment in stock that is manufactured according to the formula below:          Zinc oxide                               1.5 g          Hydrophilic petrolatum        2.5 g          Purified water                        5.0 g          Hydrophilic ointment         21.0 g   How much zinc oxide should be added to the formula to produce a 10% w/w zinc oxide ointment?  **(a)1.67 g √ 10:24:22 AM**  (b) 3.17 g  (c) 5.60 g  (d) 8.70 g |  | | **40**.  A manufacturing pharmacist mixes four equal amounts of Belladonna extract, each containing 1.15% w/v, 1.30% w/v, 1.35% w/v and 1.20% w/v of the alkaloid respectively. What is the final percentage strength of the alkaloids in the mixture?  (a) 0.80% w/v  (b) 1.15% w/v  **(c) 1.25% w/v √ 10:17:01 AM**  (d) 2.00% w/v |  | | **41**.  You need to prepare a sufficient volume of 1M hydrochloric acid (HCl) to be used to produce a buffer solution. Calculate the number of millilitres of 32% w/w HCl that is required to make 75 ml of a 1M HCl solution.   The molecular weight of HCl is 36.46 g/mol  The density of the HCl solution is 1.16 g/ml  **(a) 7.4 ml √ 9:46:17 AM**  (b) 8.6 ml  (c) 17.5 ml  (d) 28.2 ml |  | | **42**.  A pharmacist is required to prepare a 1% hydrocortisone cream. How many grams of 2.5% hydrocortisone cream should be mixed with 360 g of 0.25% cream?  (a) 36 g  (b) 90 g  (c) 144 g  **(d) 180 g - [Correct Answer]** |  | | **43**.  What volume of liquefied phenol should be used when compounding the following formulation:       Liquefied phenol         2.5% v/v      Calamine lotion            240 ml      Sig. for ext. use  (a) 4 ml  **(b) 6 ml √ 9:12:54 AM**  (c) 8 ml  (d) 9 ml |  | | **44**.  A pharmacist is to prepare an oral paediatric ferrous sulfate solution for a 4-month-old infant. The following formula is available to prepare 150 ml of this solution:   |  |  |  |  | | --- | --- | --- | --- | | Rx | Ferrous sulfate |  | 0.6 g | |  | Ascorbic acid |  | 0.2% w/v | |  | Orange syrup |  | 10% v/v | |  | Chloroform water |  | 25 ml | |  | Water | to | 50 ml |    The patient has to take 2.5 ml bd. How many millilitres of orange syrup will this patient consume per day?  **(a) 0.50 ml √ 9:58:58 AM**  (b) 2.50 ml  (c) 5.00 ml  (d) 10.00 ml |  | | **45**.  As part of formulation development, you have been asked to prepare 467 grams of an ointment that contains 7.5% w/w methyl salicylate. Calculate how many grams of an ointment base you would need to prepare the ointment.  **(a) 35.03 g × 9:59:28 AM**  (b) 43.20 g  **(c) 431.98 g - [Correct Answer]**  (d) 467.00 g |  | | **46**.  A regular patient returns morphine tablets to the pharmacy due to the treatment cessation. The patient did not use any of the tablets and the container is still sealed.  You have another patient on the same tablets. What is the MOST appropriate manner in which to handle the situation?  **(a) Accept the tablets back for destruction according to legal requirements √ 11:42:08 AM**  (b) You cannot accept the tablets as they are a S6 item  (c) Take the tablets back and give it to the other patient on the same treatment  (d) It is for the patient to decide whether or not they want to donate the tablets to the other patient |  | | **47**.  The responsible pharmacist is conducting annual performance appraisals for the staff. Which of the following statements is TRUE regarding this process?  (a) A group performance appraisal is an effective means to motivate underperforming staff  (b) The results of the performance appraisal should not be considered for employee salary increases  (c) The result of the performance appraisal should not be discussed with the relevant staff member  **(d) Performance is monitored and evaluated according to job descriptions and specific objectives √ 12:31:35 PM** |  | | **48**.  With respect to ensuring the distribution of medicines in a hospital, Standard Operating Procedures (SOPs) on distribution must be written and complied with. Which of the following statements is TRUE?  **(a) A copy of the medicine list must be made available to nursing staff responsible for obtaining supplies of stock - [Correct Answer]**  (b) Distribution of medicine within a hospital may take place under the direction and control of the pharmacist’s assistant  **(c) Stock distribution records must be dated and signed and kept by the hospital for a period of at least one year × 1:41:21 PM**  (d) Regular stock checks and stock rotation at medicine storage areas in the hospital is the responsibility of the nursing staff |  | | **49**.  The formulation and manufacture of an injectable solution necessitates that:  (a) The product must not be manufactured on the same premises as the oral dosage forms  **(b) The product must be in a sterile solution dosage form √ 11:47:00 AM**  (c) The clean areasusedin the manufacturing procedureneed not comply with the standards of cleanliness  (d) The active ingredient must be optically active |  | | **50**.  Which of the following SOP’s is mandatory within a community pharmacy?  **(a) Reporting of adverse drug reactions √ 12:33:00 PM**  (b) Calibration of the scale  (c) Staff recruitment procedures  (d) Phases of dispensing |  | | **51**.  A member of staff working in the pharmacy is pregnant. She heard from friends that some medicines have teratogenic effects and seeks advice from you as to which trimester of pregnancy the foetus would be most susceptible to the possible teratogenic effects of a medicine. Your advice would suggest that the following trimester(s) is the MOST likely to be critical.  (a) Equally throughout the trimesters  **(b) First trimester √ 12:47:10 PM**  (c) Second trimester  (d) Third trimester |  | | **52**.  Which of the following circumstances and conditions allow a responsible pharmacist to be absent from their pharmacy?  **(a) Suitable mechanisms are in place to ensure no person performs any act falling outside their scope of practice √ 11:52:27 AM**  (b) Full time employment at another pharmacy where they are not the responsible pharmacist  (c) Full time employment at another business so long as it is not a pharmacy  (d) The responsible pharmacist is not responsible to Council for any acts performed in his/her absence |  | | **53**.  A pharmacist and pharmacist’s assistant are apprehended by hospital security after stealing medicines. The SAPS is called in, a criminal case is opened, and they are found guilty. The hospital is instituting disciplinary action against the staff. The responsible pharmacist reported the matter to the SAPC and their conduct is also found to be improper. Which the following statements regarding the action or penalties Council may take, is TRUE?  (a) Council is only concerned with scope of practice to ensure patient safety  (b) Registered persons are automatically removed from the relevant Council registers once found guilty in a court of law  **(c) They may be fined and/or suspended from practising for a specific period √ 11:51:59 AM**  (d) The assistant is not guilty because they were working under direct supervision of a pharmacist |  | | **54**.  A female patient asks to buy 10 quinine tablets as she uses one tablet a month as an oral contraceptive. Which of the following is the MOST appropriate action to take?  (a) You should ask her to get a prescription as quinine is a schedule 4 medicine  **(b) You may not sell the quinine tablets to her as it is not indicated for this purpose √ 12:32:40 PM**  (c) You dispense 6 tablets as you may only give 6 months' supply  (d) Refer the patient to a colleague as you have a moral issue with abortifacients |  | | **55**.  While you are doing your internship, you want to earn extra money over weekends. Which of the following statements is TRUE?  (a) You may locum as an intern at another pharmacy within the same sector as your training pharmacy  **(b) You may locum as a pharmacist’s assistant post-basic at another pharmacy √ 12:52:29 PM**  (c) You may locum as an intern at another pharmacy as your registration is not sector specific  (d) You may not practice as an intern or pharmacist’s assistant at any other pharmacy |  | | **56**.  You are going to participate in the Argus Cycle Tour. A pharmaceutical company offers you cycling gear that is branded “Fexofenadine, the fastest relief for hayfever”. Which of the following actions would be MOST appropriate?  (a) You can accept the offer as you are under no obligation to sell the product  **(b) You cannot accept this cycling gear as it advertises the indication of the product √ 11:40:01 AM**  (c) You may only accept the offer if your manager approves it  (d) You may only accept the offer if the value of the cycling gear is less than R1000 |  | | **57**.  Which of the following would be the scope of practice for pharmacist’s assistant basic level?  (a) They may order metronidazole tablets from the wholesaler  (b) They may sell clotrimazole vaginal cream to a patient  **(c) They may assist with the compounding of a non-sterile medicine √ 1:15:04 PM**  (d) They may assist a patient with advice on drug interactions |  | | **58**.  You receive a prescription for 30 Ritalin® LA 10 mg (methylphenidate) capsules from a paediatrician known to you. The patient has been using Ritalin® LA 10 mg capsules for three months. The practitioner only indicated the quantity in figures and failed to express the quantity in words. Which of the following actions is the MOST appropriate to take?  (a) Send the caregiver back to the paediatrician to correct the prescription  **(b) Confirm the quantity with the paediatrician and write the quantity in words on the prescription which you then dispense - [Correct Answer]**  **(c) Confirm the quantity with the paediatrician telephonically dispense the prescription and request a new valid prescription × 11:39:35 AM**  (d) Call the paediatrician and insist that they write another prescription before you can dispense the medicine |  | | **59**.  The pharmacy labelling machine is out of order and has been sent for repairs. You are expected to continue dispensing medicines to patients. Which of the following is NOT a legal requirement on a manually written label?  (a) Date of dispensing  (b) Directions for use of the medicine  **(c) Name of the prescriber - [Correct Answer]**  **(d) Proprietary name of the medicine × 12:21:42 PM** |  | | **60**.  Which Act governs the registration of medicines in South Africa?  (a) National Health Act (Act 61 of 2003)  (b) Pharmacy Act (Act 53 of 1974)  (c) Consumer Protection Act (Act 68 of 2008)  **(d) Medicine and Related Substances Act (Act 101 of 1965) √ 12:46:37 PM** |  | | **61**.  Applications to SAHPRA for the amendment of a registration dossier of a medicine are divided into different categories. Which of the following statements regarding a Type C amendment is TRUE?  (a) Amendments that should be considered as new applications  **(b) Amendments that require prior approval √ 1:39:07 PM**  (c) Amendments for which no report is required  (d) Amendments that may be implemented without intervention of or prior notification |  | | **62**.  Which of the following statements regarding the requirements for a pharmacist to be approved as a tutor for training interns, is TRUE?  (a) Practise at least part-time at the pharmacy where the intern will be employed  (b) Be registered as a pharmacist with Council for a minimum of 5 years  (c) Submit a CPD portfolio covering at least 6 different competency standards  **(d) Ensure sufficient exposure of the intern to the practice of pharmacy √ 12:17:08 PM** |  | | **63**.  A 43-year-old patient has just tested positive for HIV with a CD4 count of 200 and has immediately been initiated on ARV treatment. During patient counselling, the patient asks that you do not disclose their status to their life partner. Which of the following actions is the MOST appropriate to take?  **(a) Encourage the patient to share the information with their life partner √ 11:32:29 AM**  (b) Inform their life partner of their increased risk  (c) Report the status of the patient to the notifiable disease register  (d) Agree with the patient that the life partner does not really need to know |  | | **64**.  Which of the following offers the highest level of evidence when trying to make a decision on whether a medicine should be included in a formulary?  (a) Randomised control trial  (b) Pharmaceutical company glossy literature  (c) Cohort studies  **(d) Systematic reviews √ 1:05:43 PM** |  | | **65**.  You are a pharmacist intern at a hospital. As part of your project, you would like to conduct a retrospective chart review of the long-term side effects of anti-retroviral therapy. What approvals are needed to conduct this survey?  (a) Ethical and SAHPRA approval  (b) Informed consent from the patients and prescriber approval  (c) Hospital and SAPC approval  **(d) Ethical and hospital approval √ 1:03:18 PM** |  | | **66**.  The fill rate is important to customer satisfaction and has its implications for efficiency with regards to transportation. This ratio indicates the percentage of a customer’s order filled on the first shipment. Calculate the fill rate of an order of 4000 units if the manufacturer was only able to deliver 3800 units.  (a) 0.05%  (b) 5.00%  (c) 90.00%  **(d) 95.00% - [Correct Answer]** |  | | **67**.  If ibuprofen tablets are permitted to contain not less than 90% and not more than 110% of the labelled amount of ibuprofen, what is the permissible range in content of the drug, expressed in milligrams, for ibuprofen tablets labelled to contain 200 mg of ibuprofen per tablet?  **(a) Range = 180 mg to 220 mg √ 9:28:27 AM**  (b) Range = 90 mg to 110 mg  (c) Range = 190 mg to210 mg  (d) Range = 90 mg to 200 mg |  | | **68**.  If neomycin sulfate has a potency of 600  µg of neomycin per milligram, how many milligrams of neomycin sulfate would be equivalent in potency to 1 mg of neomycin?    (a)3.34 mg  **(b) 1.67 mg - [Correct Answer]**  (c) 0.84 mg  **(d)0.60 mg × 10:07:33 AM** |  | | **69**.  A company plans to manufacture 5 batches of vitamin A 50 000 IU softgel capsules in the coming month and again after 12 months. The shelf life of the vitamin A palmitate is 8 months. Each batch uses 4.5 kg of vitamin A palmitate, which is only available in packs of 4.5 kg per bag. How many bags would you advise the procurement department to secure if there is no stock on hand of vitamin A palmitate?      **(a) 5 bags - [Correct Answer]**  (b) 6 bags  (c) 12 bags  (d) 10 bags |  | | **70**.  Quality risk management supports a scientific and practical approach to decision-making. Which of the following is TRUE regarding quality risk management?  (a)The regulators assess and manage risk using random risk management tools and/or procedures  (b)The use of statistical tools to support quality risk management methods should be discouraged  **(c) Itprovides documented transparent and reproducible methods to accomplish steps of the quality risk management process √ 12:46:19 PM**  (d)Tools for use in specific areas pertaining to drug substance and drug (medicinal) product quality |  | | **71**.  Which of the following could be used to identify and manage risks associated with physical, chemical and biological hazards (including microbiological contamination)?  (a)Hazard Operability Analysis (HAZOP)  (b)Preliminary Hazard Analysis (PHA)  (c)Failure Mode Effects and Critical analysis (FMECA)  **(d)Hazard Analysis and Critical control Points (HACCP) √ 11:45:17 AM** |  | | **72**.  Medicine X is administered at a recommended flow rate of 3 ml/min when used at a concentration of 5 mg/ml. Medicine X is only available in 500 mg vials for dilution in a 5% w/v glucose solution. The IV administration set is calibrated at 20 drops/ml. How long will it take for the total volume of fluid to be administered?  (a) 12.0 min  **(b) 33.3 min √ 10:12:10 AM**  (c) 64.0 min  (d) 66.6 min |  | | **73**.  A crèche close to your pharmacy has an outbreak of mumps and needs some advice about the disease. Which of the following statements is **TRUE**?  (a) Signs and symptoms typically appear 3 days after exposure.  (b) Children can return to school after the fever subsides.  **(c) Typical symptoms include pain on eating and opening of the mouth √ 1:07:52 PM**  (d) Always involves bilateral swelling of the salivary glands |  | | **74**.  A young mother enquires about fluoride supplementation for an 8-month-old baby. What advice would you give to her?      **(a) Do not supplement with fluoride if the content of the drinking water is above 0.9 ppm × 11:31:57 AM**  (b) Excess fluoride will be excreted via the kidneys  **(c)The role of fluoride in the body is to stimulate bone growth and reduces dental caries - [Correct Answer]**  (d)Do not mix milk formula with tap water as this may lead to fluorosis |  | | **75**.  You are invited to do a presentation at the “Quit Smoke Association”. In your presentation you want to add the following section: “In addition to smoking, the following diseases place a patient at a higher risk of cardiovascular disease”  Which of the following diseases would you include in your presentation?  (a) Osteoarthritis  (b) Hypothyroidism  **(c) Diabetes √ 11:34:23 AM**  (d) Mild renal failure |  | | **76**.  You are giving a talk on sunburn. Which of the following statements is TRUE?  (a) It is unnecessary to apply sunscreen during the autumn and winter months  (b) To maintain vitamin D levels you need exposure to artificial light for at least 1 hour  (c) Sunscreens only provide protection against type B ultraviolet rays  **(d) Medicines may affect the skins sensitivity to sunburn such as certain antibiotics √ 12:40:57 PM** |  | | **77**.  A young mother, with three children aged 6 months, 2 years and 6 years, suspects that the 6-year-old has worms. Which of the following would you include when you counsel her?    **(a)The 6-month-old baby should not be dewormed - [Correct Answer]**  **(b) Only treat the 6-year-old child with albendazole × 12:45:24 PM**  (c) It is unnecessary to deworm adults over 18-years  (d) If the child is vomiting suggest an antiemetic |  | | **78**.  You receive the following prescription:  Rx     Metronidazole 400 mg tds x 7 days  Repeat X 5  When discussing the prescription with the patient he confirmed that he visited the dentist this morning as he repeatedly suffers from dental infections. After evaluating the prescription, you determine that you need to call the dentist. Which of the following would you need to discuss with the dentist?  (a) Metronidazole should be prescribed qid  (b) Metronidazole should be prescribed 500mg PO tds  **(c) Metronidazole should not be repeated for this indication √ 12:57:13 PM**  (d) Metronidazole is not indicated for dental infections |  | | **79**.  A doctor phones you regarding a 52-year-old female patient on controlled lithium therapy for the past 7 years. Her latest blood level results show her lithium level is 1.5 mmol/l.  Which of the following could contribute to this level?    (a) Hyperhydration  **(b) Kidney dysfunction - [Correct Answer]**  **(c) Liver dysfunction × 12:06:05 PM**  (d)Hyperkalaemia |  | | **80**.  A new clinical trial molecule has a half-life of 14 hours. The molecule is administered intravenously and immediately after administration its plasma level is 136 μg/ml. What would the plasma concentration be after 56 hours?  (a) 2.1 µg/ml  (b) 4.3 µg/ml  **(c) 8.5 µg/ml - [Correct Answer]**  (d) 17.0 µg/ml |  | | **81**.  The doctor on duty at casualty phones to enquire about an antidote or specific treatment for a patient that has digitalis toxicity. Her digitalis level was 12 nmol/L taken 6 hours after taking her last dose. What advice will you give to the attending doctor?  (a)Evaluate iron and sodium levels  (b) Administer activated charcoal every 2 hours  **(c) Evaluate potassium and magnesium levels √ 12:59:19 PM**  (d) Administer ipecacuanha to induce emesis |  | | **82**.  A syrup contains ferrous fumarate 140 mg/5 ml. How much iron will a patient receive per day if the daily dosage regimen is 10 ml twice a day?  Molecular weight of ferrous fumarate = 169.9  Atomic weight of iron = 56  (a) 46 mg  (b) 92 mg  **(c) 185 mg - [Correct Answer]**  (d) 368 mg |  | | **83**.  How much dihydrocodeine bitartrate and guaiphenisin are contained in each dose of the following prescription?     |  |  | | --- | --- | | Dihydrocodeine bitartrate | 0.12 g | | Guaiphenisin | 2.4 g | | Cherry Syrup ad | 120 ml |     Sig. One medicine measure prn for cough        (a) 2.5 mg dihydrocodeine; 100 mg guaiphenesin  (b) 5 mg dihydrocodeine; 50 mg guaiphenisin  **(c) 5 mg dihydrocodeine; 100 mg guaiphenisin √ 9:55:19 AM**  (d) 50 mg dihydrocodeine; 100 mg guaiphenisin |  | | **84**.  SAHPRA has circulated information on a medicine that is deemed undesirable. You recently bought 10 units of this product. Which of the following would be the MOST appropriate action to take?  (a) Sell the stock on hand and do not order any more  (b) Give the stock away to patients who cannot afford it  **(c) Remove immediately from the shelf and do not sell it √ 12:10:54 PM**  (d)It is not an official recall therefore no action needed |  | | **85**.  You receive a prescription for venlafaxine XL 150 mg once daily, to be repeated monthly for 5 months. The patient requests you to dispense 75 mg capsules instead of the 150 mg capsules. Which of the following actions is MOST appropriate for you to take?  (a) Dispense 75 mg capsules as requested by the patient  (b) Dispense 150 mg capsules as instructed on the prescription  **(c) Consult the doctor before dispensing the medication √ 12:20:09 PM**  (d) Advise the patient to take one 150 mg capsule every second day |  | | **86**.  A regular patient at your pharmacy complains about insomnia after being in transit for 24 hours from a visit to China. Which of the following would be the MOST appropriate to recommend?  (a) Advise the patient to take frequent naps during the daytime  (b) Refer to patient to the doctor for a prescription for zolpidem 10 mg  **(c) Explain to the patient the effect of jet lag and it will resolve over time √ 12:32:08 PM**  (d) Advise the patient to use an energy and/or fatigue supplement |  | | **87**.  A patient in the 14th week of gestation presents a prescription, at a community pharmacy, from a dermatologist for doxycycline 50 mg daily (repeated for 5 months). What is the MOST appropriate approach for you to take in respect of dispensing this prescription?  (a) Ask the patient to return to the doctor with the prescription  (b) Dispense the medicine as prescribed to the patient  (c) Delay therapy until after the birth of the baby  **(d) Call and informthe doctor of the potential effects √ 1:21:03 PM** |  | | **88**.  A pharmacist dispensed a prescription for 500 mg cefuroxime bd for 5 days to a patient. The next day you notice a dispensing error was made as the prescription was for 500 mg ciprofloxacin bd for 5 days. What is the MOST appropriate action for the pharmacist to take?  (a) No action needed as both medicines are broad spectrum antibiotics and the outcome will be the same  (b) Make a note on the prescription that a different medicine was issued and file the prescription  (c) Enquire on the wellbeing of the patient but do not inform the patient of the mistake  **(d) Apologise and ask the patient to return the medicine and replace it with the correct medicine √ 1:14:45 PM** |  | | **89**.  You are working in a pharmacy where there are 4 pharmacists on duty at any given time during operating hours. Which of the following would be the MOST appropriate to display above the list of names of pharmacists?  (a) “Highly qualified pharmacists on duty”  (b) “Only registered pharmacists on duty”  **(c) “Pharmacists on duty” √ 11:38:17 AM**  (d) “Professional pharmacists on duty” |  | | **90**.  A 24-week pregnant hospitalised patient develops an unknown infection. Which antibiotic is suitable as empiric treatment?  (a) Trimethoprim/sulfamethoxazole  **(b) Piperacillin/tazobactam √ 12:12:54 PM**  (c) Clindamycin  (d) Kanamycin |  | | **91**.  A phase III sumatriptan study aims to confirm efficacy of two different doses when given during a migraine attack. Patients are randomised into one of three treatment groups (50 mg, 100 mg and placebo). What is the CORRECT design for this study?  (a) Factorial design  (b) Cross check design  **(d) Meta-analysis × 12:28:06 PM**  **(d) Parallel design - [Correct Answer]** |  | | **92**.  Which of the following regarding evidence-based medicine is TRUE?  (a) It involves a health economic assessment  **(b) It is restricted to randomized placebo-controlled trials × 1:40:33 PM**  **(c) Relies only on objective measurements of disease outcomes - [Correct Answer]**  (d) Relies on anecdotal evidence based on patient experiences |  | | **93**.  The recommended dose of a nasal spray is 32 µg daily per nostril. If the nasal spray provides 200 sprays (each containing 16 µg) after initial priming, how many days will the nasal spray last?  (a) 30 days  **(b) 50 days √ 10:20:15 AM**  (c) 60 days  (d) 100 days |  | | **94**.  Which of the following is TRUE regarding storage of stock?    (a)Medicines without an expiry date should be rotated according to the FEFO principle  (b) Five litre containers of antiseptic liquids can be stored on the floor  **(c)All medicines in the dispensary should be stored according to theFIFO principle × 12:21:26 PM**  **(d) Disinfectants for external use are stored separately from the medicines for internal use - [Correct Answer]** |  | | **95**.  A medicine is given in total daily doses based on body surface area (BSA), with the standard total daily dose being 2.2 mg/m2. Which of the following is CORRECT?  (a) A patient with a BSA of 2 m2 should receive a dose of 4.5 mg  (b) A patient with a BSA of 1.8 m2 should receive a dose of 3.6 mg  (c) A patient with a BSA of 1.75 m2 should receive a dose of 3.58 mg  **(d)A patient with a BSA of 1.5m2 should receive a dose of 3.3 mg √ 9:10:23 AM** |  | | **96**.  You have prepared a suspension containing 5 million units of penicillin per 10 ml according to the instructions from a doctor’s prescription. How many units of penicillin will 0.33 ml of the suspension contain?  (a) 16 500 units  **(b)165 000 units √ 9:00:45 AM**  (c) 500 000 units  (d) 5 000 000 units |  | | **97**.  How many tablets will you dispense to a patient if you receive the following prescription and have 20 mg furosemide tablets in stock?  Rx: Furosemide 40 mg ii po qid (30 days)  (a) 90 tablets  (b) 120 tablets  (c) 240 tablets  **(d) 480 tablets √ 9:06:04 AM** |  | | **98**.  A breastfeeding mother enquires whether it is safe to use aspirin. Which of the following reference sources would assist you in determining the safety of this medicine for this patient?  **(a) Daily Drug Use √ 12:06:28 PM**  (b) Good Pharmacy Practice  (c) British Pharmacopeia  (d) Pharmacy Act 53 of 1974 |  | | **99**.  A patient presents with a prescription for methotrexate for rheumatoid arthritis. Which of the following counselling points is TRUE?  (a) The prescribed dose can be divided across a number of days if they experience side effects  (b) Take the medication on an empty stomach one hour before or two hours after a meal  (c)Immediately stop taking the medication and contact the doctor if hair loss is experienced  **(d) Contact the doctor if they have been exposed to someone with chicken pox or shingles √ 11:37:42 AM** |  | | **100**.  Which of the following vaccines may be frozen and defrosted without any damage to the product?  (a) Diphtheria  (b) Pneumococcal  **(c) Measles √ 12:54:53 PM**  (d) Pertussis |  | | **101**.  A patient is going on holiday to the Kruger Park for one week. Which of the following medicine regimens would you initiate?  (a) Artemether 20 mg / lumefantrine 120 mg po 2 tablets daily starting 2 days prior to entry and continue 7 days after leaving area  (b) Doxycycline 100 mg daily po starting 2 days prior to entry and continue 1 week after leaving area  **(c) Atovaquone 250 mg / proguanil 100 mg combination daily po starting 2 days prior to entry and continue 7 days after leaving area √ 12:16:51 PM**  (d) Chloroquine 300 mg 1 tablet per week po starting one week prior to entry and continue 4 weeks after leaving area |  | | **102**.  Which of the following statements about pharmacovigilance is TRUE?    (a) Pharmacovigilance is the study of the effects of medicines on the body and their mechanism of action  (b) Pharmacovigilance relates to the multimorbidity and associated use of multiple medicines  **(c) An adverse reaction is a response to a medicine which is noxious and unintended and which occurs at doses normally used in humans √ 12:17:47 PM**  (d) A side effect is any unintended effect of a pharmaceutical product that is already described in the package insert of the medicine |  | | **103**.  ABC analysis of your formulary for the year 2018/2019 is used as baseline data. You establish that Tazocin® (piperacillin/tazobactam) was a frequently used class A item. Which of the following options describe the relation of Tazocin® to other formulary items?  **(a) 10-20% consumption of Tazocin® accounted for 75-80% of the formulary budget or expenditure √ 12:30:36 PM**  (b) 75-80% consumption of Tazocin® accounted for 10-20% of the formulary budget or expenditure  (c)Tazocin is an expensive item and should be removed from the formulary  (d) Tazocin® is an inexpensive item therefore does not require tight inventory control |  | | **104**.  A pharmacist needs 75 mg piperazine for the preparation of a 1 ml ampoule for injection and only piperazine citrate is available. How much piperazine citrate does the pharmacist need to weigh to produce a total of 15 x 1 ml ampoules?  MW of piperazine = 86.14, C4H10N2  MW of piperazine citrate = 643.00, [(C4H10N2)32C6H8O7)]  (a) 0.19 g  (b) 0.56 g  (c) 1.12 g  **(d) 2.80 g √ 9:27:12 AM** |  | | **105**.  Magnesium sulphate injection is normally supplied as a 50% w/v solution. How many mEq/ml of magnesium does this injection contain?  MW of magnesium sulphate = 246.3  (a) 1.02 mEq  (b) 2.03 mEq  **(c) 4.06 mEq √ 10:20:03 AM**  (d) 6.09 mEq |  | | **106**.  Which of the following statements is TRUE regarding the grading of pharmacies in South Africa?  (a) To ensure that all licensed pharmacies comply with SABS requirements  (b) To establish the location of pharmacies  **(c) To ensure that pharmacies meet the required standards √ 12:54:45 PM**  (d) To provide adequate access to pharmaceutical services to the public |  | | **107**.  Calculate the re-order stock level of paracetamol 500 mg tablets (pack size 20) if orders take one day to be delivered and you always keep an additional 50 units on the shelf.  Paracetamol sales history   |  |  |  |  | | --- | --- | --- | --- | | Month | Pack size 100 tablets | Pack size  20 tablets | Pack size 50 ml elixir | | February | 123 | 54 | 12 | | March | 98 | 63 | 8 | | April | 114 | 44 | 15 | | May | 130 | 55 | 19 | | June | 10 | 78 | 9 |     (a) 2  (b) 8  **(c) 52 - [Correct Answer]**  (d) 54 |  | | **108**.  Calculate the average number of units sold per month (to the nearest unit) for the medicines in the table below.   |  |  |  | | --- | --- | --- | |  | Amoxicillin 250 mg  Pack size: 15 capsules | Amoxicillin 500 mg  Pack size: 15 capsules | | January | 8 | 9 | | February | 5 | 5 | | March | 7 | 4 | | April | 1 | 8 | | May | 9 | 5 | | June | 2 | 5 | | July | 15 | 21 | | August | 12 | 7 | | September | 9 | 14 | | October | 11 | 9 | | November | 3 | 5 | | December | 5 | 8 |   (a) Amoxicillin 250 mg: 6 units  **(b) Amoxicillin 250 mg: 7 units √ 9:18:06 AM**  (c) Amoxicillin 500 mg: 6 units  (d) Amoxicillin 500 mg: 10 units |  | | **109**.  Calculate the safety stock level for adrenaline ampoules (to nearest unit).   |  |  | | --- | --- | | Average monthly consumption | 100 ampoules | | Average daily use | 3.33 ampoules | | Maximum daily use | 5 ampoules | | Minimum daily use | 1 ampoule | | Average lead time | 30 days | | Maximum lead time | 42 days | | Minimum lead time | 10 days |   (a) 80  (b) 100  **(c) 110 √ 9:35:31 AM**  (d) 200 |  | | **110**.  Your actual monthly sales of product X was 20% less than the targeted sales amount, because the supplier ran out of stock. If your actual monthly sales amounted to R76 400, what is the targeted sales amount?  (a) R91 680  **(b) R95 500 - [Correct Answer]**  (c) R137 520  (d) R382 000 |  | | **111**.  You are requested to present an information session on fluoride supplementation. Which of the following statements is TRUE?  (a) The recommended daily allowance for fluoride intake for adult females is 4 mg/day  (b) Fluoride supplementation is essential in all children under the age of 6 years  **(c) Supplementation is recommended when drinking water contains <0.7 mg/L of fluoride √ 12:15:55 PM**  (d) A deficiency of fluoride is characterised by memory loss and disorientation |  | | **112**.  A 65 kg 54-year-old male is admitted to hospital with a bacterial infection and requires a loading dose to treat the infection. What loading dose of medicine K is required to achieve an effective concentration of 7 mg/l?  The volume of distribution of medicine K is 0.25 l/kg  (a) 100.00 mg  **(b) 113.75 mg √ 8:59:22 AM**  (c) 150.00 mg  (d) 175.00 mg |  | | **113**.  The formula for magnesium citrate oral solution requires 27.4 g of anhydrous citric acid (C6H8O7) in 350ml of the product. How many grams of citric acid monohydrate (C6H8O7**·**H2O) may be used instead of the anhydrous salt?  (a) 14 g  (b) 25 g  (c) 27 g  **(d) 30 g √ 9:47:07 AM** |  | | **114**.  A bulk batch produces 150 000 tablets. Purified water must be added during the manufacturing process. The final tablet has a mass of 350 mg with a moisture content of 5%. How much purified water is added during the manufacturing process when a 2% loss occurs during drying?  (a) 2.625 kg  **(b) 3.675 kg √ 9:20:18 AM**  (c) 6.300 kg  (d) 7 675 kg |  | | **115**.  A 250 g bottle is filled with a 5 g overage. If 1000 units are filled with the same overage, calculate the volume of bulk required with a density of 0.987 g/ml.  (a) 259.779 L  **(b) 258.359 L √ 10:02:09 AM**  (c) 255.000 L  (d) 200.359 L |  | | **116**.  Tablet X contains 125 mg of magnesium oxide (MW is 40.3044 g/mol), determine the elemental mass of magnesium (MW is 24.3050 g/mol) in that tablet.    (a)150 mg  (b) 100 mg  **(c) 75 mg √ 9:32:29 AM**  (d) 50 mg |  | | **117**.  Which of the following scenarios applies to retrospective process validation?  (a) Validation is conducted by well-established companies only  (b)Validation of recent changes in tablet compression  **(c) Validation is conducted based on historical data √ 12:10:24 PM**  (d)Testing of retained samples |  | | **118**.  Which of the following tasks can a pharmacist’s assistant (basic) perform under direct supervision of a pharmacist?  **(a) Reconcile the invoice with the delivery of zolpidem tablets - [Correct Answer]**  (b) Compounding of total parenteral nutrition preparations  **(c) Advise patients on the correct use of a salbutamol inhaler × 11:35:40 AM**  (d) Assist the nurse with blood pressure monitoring |  | | **119**.  A known patient is buying a codeine-containing analgesic product weekly from the pharmacy. You discuss your concerns with the patient, but thy reply that it is “none of your business”. Which of the following actions would be MOST appropriate?  (a) Contact a family member to raise your concern about the patient’s use of codeine  **(b) Refuse to supply any further codeine containing products to the patient √ 11:53:52 AM**  (c) Report the use of codeine by the patient to the SAPC  (d) Report the use of codeine by the patient to SAHPRA |  | | **120**.  Zinc sulfate 0.25% w/v eye drops are required to be made isotonic with sodium chloride. What weight of sodium chloride is required in the preparation of 100 ml of eye drop solution?  A 0.25% w/v solution of zinc sulfate depresses the freezing point of water by 0.022 oC and a 1% w/v solution of sodium chloride depresses the freezing point by 0.576 oC. An isotonic solution freezes at -0.52 oC  (a) 0.432 g  (b) 0.576 g  (c) 0.648 g  **(d) 0.865 g √ 9:54:59 AM** |  | |

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