

# CLINICAL PATHOLOGY (CPath) EXAM

31 Questions (2 hours)

Student Name: \_\_\_\_\_

Mark: /100%



1. List the inclusion criteria for CPath (1 marks)

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2. Blood collection tubes must be drawn in a specific order to avoid cross-contamination of additives between tubes. The recommended order of the draw is? (3 marks)

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_

3. It is fundamental that one of the following tubes is always filled to the correct level to avoid erroneous results. (1 mark)

- a) Red top
- b) Green top
- c) Blue top
- d) Purple top

4. Blood tubes with additives should be gently inverted 4-6 times. (1 mark)

***Circle response***

TRUE

FALSE

5. Outline the required documentation in the nursing & medical notes required once pathology has been initiated. (2 marks)

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6. Why it is important that pathology collected be clearly documented in the medical notes? (1 mark)

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7. You are the CIN and have attended pathology on a young man with abdominal pain. He had been in the waiting room for some time and is becoming impatient. He approaches you and states he is not going to wait and would like the results of his blood tests now. Outline below your management of this situation. (2 marks)

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8. You are assessing an elderly lady; she has multiple medical complaints and an extensive medical history. You are unsure how to apply her condition to the pathology matrix. What is your course of action for this patient? (2 marks)

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10. It is an extremely busy day and you are allocated to cover the acute beds. You are busy and have observations to attend and an ECG to perform on a new patient with chest pain. The M.O asks you to attend to the pathology of one of the patients. What are you going to do and why? (2 marks)

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11. Collecting blood from an arm with a fistula is recommended. (1 mark)

**Circle response**            TRUE                            FALSE

12. When collecting blood for group and hold it is a legal requirement that the collector sign the tube. (1 mark)

**Circle response**            TRUE                            FALSE

13. White blood cell count is raised in \_\_\_\_\_ and \_\_\_\_\_ (2 marks)

14. Albumin is the major protein present within the blood. Albumin is synthesised by the \_\_\_\_\_. When the liver has been chronically damaged, the albumin may be \_\_\_\_\_ (2 marks)

15. Creatinine levels give an approximation of \_\_\_\_\_ rate. (1 mark)

16. Troponin complex is a protein that plays an important role in the \_\_\_\_\_ of skeletal and \_\_\_\_\_ muscle contraction. (1 mark)

17. According to the clinical chemistry ordering protocol, Troponin 1 may be analysed, if there has been a history of chest pain of more than \_\_\_\_\_ hours duration. (1 mark)

18. 25% of patients with pancreatitis have normal amylase. Lipase is more sensitive and specific than amylase. (1 mark)

**Circle response**            TRUE                            FALSE

19. Most coagulation factors are manufactured in the \_\_\_\_\_  
(1 mark)

20. It is estimated that 1/3 of all blood cultures taken are contaminated with normal skin flora. (1 mark)

**Circle response**

TRUE

FALSE

21. A BhCG blood test can detect a pregnancy from as early as: (1 mark)

- a. 20 days
- b. 7 days
- c. 14 days
- d. 10 days
- e. 6 weeks

22. A 60 yr. old male presents with a history which includes commencement of oral antibiotics by the GP for a UTI 2/7 ago. She presents to the emergency department pale, diaphoretic, shivering & c/o lower back pain. Temp. 39, HR 120, BP 95/50. What are your immediate interventions as the CIN nurse? (2 marks)

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23. A 16 yr old female weighing 51 kgs presents after ingesting 23 paracetamol tablets 2 hours ago, she is c/o severe nausea, nil vomiting & vague abdominal pain. This is a significant OD to result in toxicity. TRUE/ FALSE When & what investigations are required (2 marks)

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**The following 5 questions refer to the pathology matrix and must list the appropriate blood & microbiology tests you will order and then also list the colour of the blood tubes that will be sent.**

**24.** An 82 yrs old male with painful left knee, on assessment you notice his knee is swollen and red, it's hot to touch. He tells you he has arthritis and that he is having increasing difficulty mobilising. You attend his temp and its 39.2. (2 marks)


**25.** A 25 year old male with 5 weeks history of back pain. He states he has had a bad back for a few months. He is not obviously distressed. All observations are within normal limits. (2 marks)


**26.** A 41 year old male presents with left sided flank pain and dysuria for the past 8 hours. He is pale sweaty and afebrile. (2 marks)


**27.** A 68 year old female experiencing left sided chest pain intermittently for the past 12 hours. She has a previous cardiac history and is on warfarin. (2 marks)


**28.** A 32 year old male has developed sudden onset of right lower quadrant abdominal pain. He complains of nausea and feels generally unwell. (2 marks)


**29.** A 51 year old female presents with epigastric pain for the past hour with no relief. There is no vomiting. She looks slightly pale and has no previous medical history. (2 marks)


**30.** A 15 year old girl has been experiencing lower quadrant abdominal pain for the past 2 days. Her mother states her appetite is poor and she had a fever yesterday. She looks dry - you take her temp and its 37.5. (2 marks)


**31.** A 58 yr old male with known alcohol abuse, presents with obvious jaundice & abdominal distension. He complains of abdominal pain, SOB, fatigue, hot/ cold chills, nausea & anorexia. Temp. 38.2, HR 97, BP 105/70, SpaO2 95% RA. (2 marks)
