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|  |  |
| --- | --- |
|  | Coag Competency1. Polycythemia patients (hct >55%) may have falsely prolonged values for PT and PTT (as well as other Calcium dependent clotting tests). If you have such a patient, the anticoagulant used in the collection of the specimen must be adjusted accordingly.
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| **A.**  | True  |

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| --- | --- |
| **B.**  | False  |

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| **2.**  | The prothrombin time test (PT) is a global screening test for: (check all that apply)  |
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| **A.**  | Detection of deficiencies of the extrinsic coagulation pathway  |

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| --- | --- |
| **B.**  | Monitor heparin therapy  |

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| --- | --- |
| **C.**  | Helpful in testing for liver disease and/or Vitamin K deficiency  |

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| --- | --- |
| **D.**  | Monitor oral anticoagulation therapy with Coumadin  |

|  |  |
| --- | --- |
| **E.**  | Test used to monitor the response transfusion with Red Blood Cells  |

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| **3.**  | Results of patients on oral anticoagulation should be reported as an INR. The INR is: (select all that apply)  |
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| **A.**  | Calculated from the lot specific and instrument specific ISI of the reagent and the mean of the normal reference interval.  |

|  |  |
| --- | --- |
| **B.**  | "International Normalized Ratio"  |

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| --- | --- |
| **C.**  | Not really that important  |

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| --- | --- |
| **D.**  | "Interesting Name Rule"  |

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| **4.**  | The activated partial thromboplastin time (aPTT) is a screening procedure used to: (select all that apply)  |
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| **A.**  | Detect deficiencies in coagulation factors of the intrinsic coagulation pathway.  |

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| --- | --- |
| **B.**  | Detect severe deficiencies of fibrinogen and factors II, V and X.  |

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| --- | --- |
| **C.**  | Monitor oral anticoagulation therapy with Coumadin  |

|  |  |
| --- | --- |
| **D.**  | Monitor and regulate heparin therapy.  |

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| **5.**  | Unexpected abnormal aPTT results should be followed by additional coagulation studies to determine the cause of abnormal results.  |
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| **A.**  | True  |

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| --- | --- |
| **B.**  | False  |

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| **6.**  | To ensure continued and optimal operating conditions, the Sysmex CA-560 has required maitenance procedures. Match the following procedures with their proper frequencies.  |
|  |  |

A. Quarterly

**A.** 

B. As needed

**B.** 

C. Yearly

**C.** 

D. Weekly

**D.** 

|  |  |
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| **7.**  | A reagent lot roll over must be performed with each new lot of reagents to ensure that the INR calculation is adjusted appropriately for new ISI values.  |
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| **A.**  | True  |

|  |  |
| --- | --- |
| **B.**  | False  |
|  |  |
| **2.**  | Which clotting factor is released from damaged tissue, and initiates a chain of clotting events?  |
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| --- | --- |
| **A.**  | Prothrombin  |

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| --- | --- |
| **B.**  | Thrombin  |

|  |  |
| --- | --- |
| **C.**  | Fibrin  |

|  |  |
| --- | --- |
| **D.**  | Tissue Thrombolastin  |

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| **3.**  | What are the ingredients in APTT test  |
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| **A.**  | Plasma + phospholipid + calcium  |

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| --- | --- |
| **B.**  | Plasma + thromboplastin + calcium  |

|  |  |
| --- | --- |
| **C.**  | Plasma + phospholipid + thromboplastin  |

|  |  |
| --- | --- |
| **D.**  | Plasma + thrombin + calcium  |

|  |  |
| --- | --- |
| **4.**  | **Which test evaluates the extrinsic pathway?** |
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| --- | --- |
| **A.**  | PT (INR)  |

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| --- | --- |
| **B.**  | APTT  |

|  |  |
| --- | --- |
| **C.**  | TT  |

|  |  |
| --- | --- |
| **D.**  | Bleeding time  |

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| --- | --- |
| **5.**  | **Which of the following is true regarding the bleeding time** |
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| **A.**  | It is a commonly ordered test  |

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| --- | --- |
| **B.**  | It is a highly reliable and reproducible test  |

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| **C.**  | It evaluates platelet function in vivo  |

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| **D.**  | It evaluates the coagulation system  |

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| **6.**  | Which laboratory tests may aid in the diagnosis of DIC? |
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| **A.**  | a. Coagulation profile  |

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| --- | --- |
| **B.**  | b. D-Dimer  |

|  |  |
| --- | --- |
| **C.**  | c. Bleeding Time  |

|  |  |
| --- | --- |
| **D.**  | a & b  |

|  |  |
| --- | --- |
| **E.**  | a & c  |

|  |  |
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| **7.**  | Which of the following involved in the final phase of blood clotting? |
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| **A.**  | Formation of fibrin  |

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| --- | --- |
| **B.**  | Formation of prothrombin  |

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| --- | --- |
| **C.**  | Activation of blood clotting factor X  |

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| --- | --- |
| **8.**  | What is the tube use for sample collection for coagulation test  |
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| --- | --- |
| **A.**  | 3.8% sodium citrate  |

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| --- | --- |
| **B.**  | EDTA  |

|  |  |
| --- | --- |
| **C.**  | 3.2% sodium citrate  |

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| **D.**  | SST  |

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| --- | --- |
| **9.**  | Test of fibrinolysis and the mechanisms that control hemostasis  |
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| **A.**  | Bleeding time  |

|  |  |
| --- | --- |
| **B.**  | Coagulation profile  |

|  |  |
| --- | --- |
| **C.**  | D-Dimer  |

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| --- | --- |
| **10.**  | Specimen for coagulation test stability   |
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| --- | --- |
| **A.**  | 48 hours  |

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| --- | --- |
| **B.**  | 10 hours  |

|  |  |
| --- | --- |
| **C.**  | 6 hours  |

|  |  |
| --- | --- |
| **D.**  | 4 hours  |

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| **11.**  | Detection principles for coagulation method (Sysmex CA 1500)  |
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| --- | --- |
| **A.**  | Optical detection method  |

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| --- | --- |
| **B.**  | Percentage detection method  |

|  |  |
| --- | --- |
| **C.**  | Scattered light detection method  |

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| **D.**  | All the above  |

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| --- | --- |
| **12.**  | Match the below for CS 2100i  |
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A. Optical detection method

**A.** 

B. Percentage detection method

**B.** 

C. Light source

**C.** 

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| **13.**  | What is the storage and stability of Thromborel S reagent after reconstitution in the analyzer  |
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| **A.**  | 8 hours  |

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| --- | --- |
| **B.**  | 2 days  |

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| --- | --- |
| **C.**  | 5 days  |

|  |  |
| --- | --- |
| **14.**  | PT is primarly uses for  |
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| --- | --- |
| **A.**  | Monitoring of oral anticoagulant therapy  |

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| --- | --- |
| **B.**  | Detect deficiencies in the intrinsic coagulation system  |

|  |  |
| --- | --- |
| **C.**  | Monitoring heparin therapy  |

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| --- | --- |
| **15.**  | APTT reportable limit  |
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| --- | --- |
| **A.**  | >80 sec  |

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| --- | --- |
| **B.**  | >180 sec  |

|  |  |
| --- | --- |
| **C.**  | >60 sec  |

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| --- | --- |
| **16.**  | TT will be prolonged when functional fibrinogen levels <80 mg/dl. TT is used to detect  |
|  |  |

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| --- | --- |
| **A.**  | Presence of heparin  |

|  |  |
| --- | --- |
| **B.**  | hypofibrinogenemia, afibrinogenemia and dysfibrinogenemia  |

|  |  |
| --- | --- |
| **C.**  | Presence of high fibrin degradation product (FDP)  |

|  |  |
| --- | --- |
| **D.**  | All the above  |

|  |  |
| --- | --- |
| **17.**  | Fibrinogen concentration  clinical significance  |
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|  |  |
| --- | --- |
| **A.**  | To evaluate extrinsic coagulation system  |

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| --- | --- |
| **B.**  | respond to infection and oter short term inflammatory stressor  |

|  |  |
| --- | --- |
| **C.**  | To evaluate intrinsic coagulation system  |

|  |  |
| --- | --- |
| **D.**  | to eavaluate the fibrinolysis system  |

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| --- | --- |
| **18.**  | Is there any special instruction for polycythemia or severe anemia cases  |
|  |  |

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| --- | --- |
| **A.**  | True  |

|  |  |
| --- | --- |
| **B.**  | False  |

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| --- | --- |
| **19.**  | What is critical value for INR  |
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| --- | --- |
| **A.**  | >9  |

|  |  |
| --- | --- |
| **B.**  | >8  |

|  |  |
| --- | --- |
| **C.**  | >6  |

|  |  |
| --- | --- |
| **D.**  | >5  |

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| --- | --- |
| **20.**  | The QC is performed  |
|  |  |

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| --- | --- |
| **A.**  | twice daily  |

|  |  |
| --- | --- |
| **B.**  | replacement of reagent  |

|  |  |
| --- | --- |
| **C.**  | major repair, major maintenance and calibration  |

|  |  |
| --- | --- |
| **D.**  | all of the above  |