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|  |  |
| --- | --- |
|  | Coag Competency   1. 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 |

|  |  |
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| **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. |

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| **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 |

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| --- | --- |
| **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 |

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

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| --- | --- |
| **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 |

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

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

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

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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

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

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

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| --- | --- |
| **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 |
|  |  |

A. Optical detection method

**A.** 

B. Percentage detection method

**B.** 

C. Light source

**C.** 

|  |  |
| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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) |

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| --- | --- |
| **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 |

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

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

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| --- | --- |
| **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 |

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

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

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

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

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