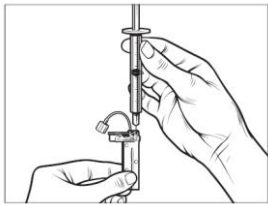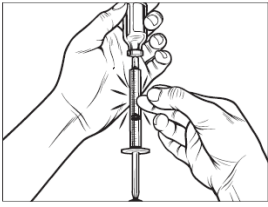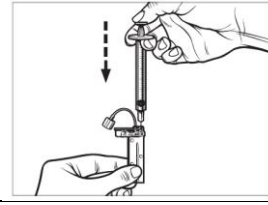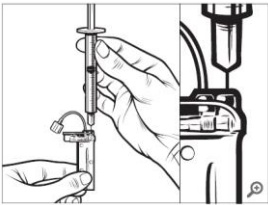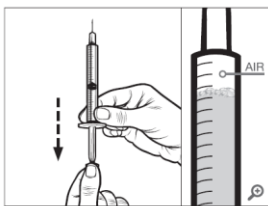| NAME	TITLE	DATE (MONTH/DAY/YEAR)

Please answer each question with your best response.

Section 1: Tandem t:slim X2 Insulin Pump

1. **What is the minimum amount of insulin needed in the cartridge AFTER the tubing has been filled to complete the load process?**
   a. 25 Units
   b. 50 Units
   c. 75 Units
   d. 95-120 Units

2. **What is considered a best practice for charging Tandem insulin pumps?**
   a. Allow the pump battery to fully deplete and then charge to 100%.
   b. Charge the pump for a short period of time (10 to 15 minutes) every day.
   c. Charge the battery overnight.
   d. Only charge the pump from a computer when disconnected from the infusion site

3. **True or False: After a cartridge change, the Insulin Level Indicator on the pump home screen displays an estimate of the amount of insulin in the cartridge as depicted by a + sign in front of a preset number. After ten (10) units have been delivered, the plus + sign will disappear, and the insulin level will display.**
   a. True
   b. False

4. **The fastest way to view the current active Personal Profile, the last bolus and if Basal-IQ or Control-IQ technology is turned ON is by tapping:**
   a. Tandem Logo
   b. Bolus icon
   c. Battery level
   d. Status, next to insulin level

5. **What will happen if the Auto-Off alarm is ON and set for 12 hours?**
   a. All insulin delivery will be stopped if no interaction with the pump screen (i.e., tap 1-2-3 to unlock) after 12 hours
   b. The pump and the mobile app will become unpaired if no interaction for 12 hours
   c. Basal-IQ and Control-IQ are turned off if no CGM connectivity after 12 hours

6. **If a user taps "Bolus" but does not complete/deliver a bolus or does not use the back arrow to return to the home screen, what will happen?**
   a. Basal delivery will stop
   b. The user will get an Occlusion Alarm
   c. The user will get an Incomplete Bolus Alert
   d. The battery will drain quickly

7. **Put the steps in order to properly complete the Cartridge Fill process:**

(Illustrations do not include EVERY step)

Steps 1-6	Steps of Cartridge Fill
A	While the needle is still in the cartridge, release the plunger and allow it to come to a neutral position.
B	Fill the syringe with insulin and remove air bubbles from syringe
C	Insert syringe into cartridge, maintain pressure on the plunger and fill cartridge slowly.
D	After filling the syringe with insulin, insert needle (for the first time) in the white fill port of the cartridge.
E	Remove syringe from cartridge, turn it with needle facing upward and press on plunger to slowly remove air
F	Pull back plunger until it is fully retracted to remove air from cartridge

8. **True or False: To cancel or stop a bolus, tap the red X to the right of "Bolus". If bolus delivery has started, tap "yes" to confirm stopping the bolus. The "Units Requested" and the "Units Delivered" will be displayed.**
    a. True
    b. False

9. **A patient receives a second occlusion alarm shortly after the first, and all insulin delivery has stopped. What is the <u>first</u> action that should be taken?**
    a. Ignore the alarms if glucose level is not >250 mg/dL
    b. Check glucose level and change infusion set and cartridge as there may be a blockage in the system
    c. Give an insulin injection immediately
    d. Disconnect from pump and call HCP

10. **The Tandem t:slim X2 is an updatable pump. What does this mean?**
    a. Tandem will send a new insulin pump free of charge when requested by patient
    b. The patient must call Tandem every 3 months to ask for software updates
    c. Patients will be notified by email when new software is available with instructions on how to obtain it.
    d. The pump keeps you updated on your current sensor glucose level

11. **The Basal Limit is defaulted to _____u/hr.**
    a. 1u
    b. 3u
    c. 2u
    d. 5u

12. **A user can create up to _____ different Personal Profiles with up to ___ time segments in each profile.**
    a. 15, 6
    b. 3, 12
    c. 6, 16
    d. 2, 24

Section 2: CGM

13. **Which is NOT an effective strategy to optimize connection between the pump and transmitter:**
    a. Wear pump and transmitter on the same side of the body
    b. Set Out of Range Alert to "On" for 20 minutes
    c. Wear pump screen facing the body
    d. Keep pump and sensor no more than 20 feet from each other

14. **What does it mean if this icon is displayed on the pump or mobile app screen?**

    a. A CGM sensor session is active, but transmitter and pump are out of range.
    b. The CGM sensor session has expired
    c. The CGM session is in startup period
    d. A BG calibration must be entered

15. **True or False: Tandem Automated Insulin Dosing (AID) algorithms will work without CGM data.**
    a. True
    b. False

Section 3: Basal-IQ Technology

16. Match the delivery statement on the left with the correct response on the right to make a correct statement about Basal-IQ technology functionality:

Resumes insulin delivery _____	**A** are indicated by lower half of diamond icon shaded red, black "S" in a red box beside the insulin level, and red bar on the CGM graph
Reduces the programmed basal rate _____	**B** Never
Stops basal delivery _____	**C** when either the actual sensor glucose value increases, or insulin has been suspended for 2 hours in any 2.5 hour period
Suspensions _____	**D** when sensor glucose is predicted to be <80 mg/dL in the next 30 minutes
During a Basal-IQ suspension, _____	**E** normal bolus deliveries continue, but extended boluses will stop.

17. When should a patient check their glucose with a fingerstick when using Basal-IQ technology?
    a. Every time the pump suspends insulin.
    b. Every time that they need to deliver a bolus.
    c. Only when the pump resumes insulin delivery.
    d. When the sensor reading does not match the clinical symptoms that the user is experiencing.

Section 4: Control-IQ Technology

18. Control-IQ technology will increase the basal rate:
    a.   When the sensor glucose is predicted to be >160 mg/dL in the next 30 minutes.
    b.   When the sensor glucose reaches 160 mg/dL.
    c.   When sensor glucose is predicted to be >180 mg/dL in the next 30 minutes.
    d.   When the sensor glucose reaches 180 mg/dL.

19. What is considered a "best practice" for using Sleep Activity?
    a.   Use it for naps if they are at least 2 hours or longer
    b.   Program a Sleep Schedule to automatically start every day.
    c.   Use the Sleep Activity all day, every day.
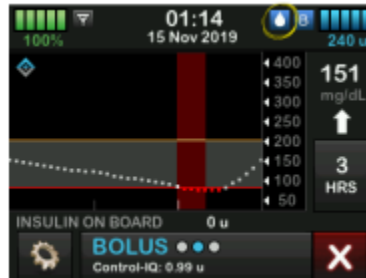   d.   Manually start a Sleep Activity when you go to bed.

20. When Control-IQ technology is turned on, what is the target BG for all bolus calculations?
    a.   112.5 mg/dL
    b.   110 mg/dL
    c.   120 mg/dL
    d.   140 mg/dL

21. When Control-IQ technology is turned on, what basal rate will be delivered when glucose levels are predicted to be between 112.5-160 mg/dL?
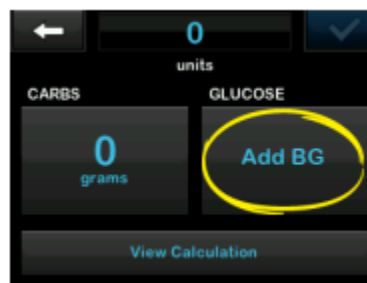   a. The Basal Limit will be delivered
   b. Programmed basal rate will always be delivered
   c. Programmed basal rate with a maximum of 3.0 u/hr will be delivered
   d. 50% of the programmed basal rate will be delivered

22. On the screen below, what does the circled icon in right corner next to the status icon indicate?

   a. The pump has stopped insulin delivery
   b. The user has initiated a correction bolus
   c. The insulin level is low
   d. Control-IQ is delivering an automatic correction bolus

23. On the picture below of the Control-IQ enabled pump bolus screen, why would the box on the right not have a glucose level displayed?

   a. The t:slim X2 insulin pump does not have a CGM signal
   b. There is no CGM trend arrow on the t:slim X2 insulin pump
   c. There is no CGM data being received by the pump
   d. All of the above

24. What is required for Control-IQ technology to work?
   a. Control-IQ technology turned On with Total Daily Insulin and Weight entered
   b. Complete Personal Profile with Carbs turned On
   c. Active CGM sensor session with a CGM value and trend arrow
   d. All of the above

25. In the picture below, why was basal delivery not stopped when the glucose level was below the red line?

    a.   The sensor glucose levels were expected to rise
    b.   The sensor was in the warmup period
    c.   Control-IQ /Basal-IQ technology was not turned on, indicated by no grey diamond in the left corner
    d.   The pump suspended, however the user resumed insulin

26. Match the Control-IQ Alert on the left with the correction notification screen on the right.

CONTROL-IQ LOW ALERT _____	Control-IQ has increased your insulin, but your sensor readings remain above 200 mg/dL. Check your catridge, tubing and site, and test your BG. **CLOSE** A
CONTROL-IQ HIGH ALERT _____	Control-IQ has delivered the maximum allowable insulin in a 2-hour period. Make sure your Total Daily Insulin is correct in Control-IQ settings. **CLOSE** B
MAX INSULIN ALERT _____	Control-IQ has predicted that you will drop below 70 mg/dL in the next 15 minutes. Eat carbs and test your BG. **CLOSE** C

27. Control-IQ technology should <u>not</u> be used by individuals who use less than ___ units of insulin per day or weigh less than ____pounds (kg), which are the minimum inputs required to initiate Control-IQ technology and for it to operate safely.

    a.   5 units, 50 lbs. (22.7kg)
    b.   10 units, 100 lbs. (45.5kg)
    c.   10 units, 55 lbs. (25kg)
    d.   20 units, 75 lbs. (34kg)

28. What does the red shaded area on the pump home screen indicate?

    a.   The basal rate was decreasing.
    b.   The basal rate was increasing.
    c.   The basal rate was stopped.
    d.   An autocorrection bolus was delivered.

Section 5: Tandem t:connect™ mobile app

29. What must be done before the pump can be connected to the t:connect™ mobile app:
    a.   Set up a t:connect account
    b.   Enable Bluetooth in the t:slim X2 pump
    c.   Enable Bluetooth on the mobile device
    d.   All of the above

30. What is a best practice with the t:connect™ mobile app ?
    a.   Force quit/close the app everyday
    b.   Open the app only when a patient is at healthcare provider's office
    c.   Interact with the app daily to keep data automatically uploading to the cloud
    d.   Interact with the app every month to keep data automatically uploading to the cloud

31. Where is the first place a user should go for t:connect™ mobile app support?
    a.   The t:slim X2 pump User Guide
    b.   www.tandemdiabetes.com/mobilesupport
    c.   Call Customer Technical Support
    d.   The App Guide under Settings in the t:connect mobile application

Section 6: Tandem t:connect™ mobile app with Mobile Bolus

32. True or False? When using the mobile bolus feature, a bolus must be stopped/cancelled on the device where the bolus was initiated.
    a.   True
    b.   False

33. True or False? If the pump and mobile device lose Bluetooth connectivity AFTER a mobile bolus delivery has started, the bolus will automatically be canceled.
    a.   True
    b.   False

34. What security settings are necessary to be able to use the mobile bolus feature in the t:connect mobile app?
   a. Voice recognition technology
   b. Device passcode or facial identification
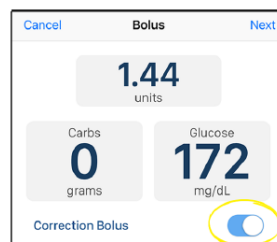   c. Find my phone feature
   d. All of the above

35. To use mobile bolus feature (select all that are true):
   a. User must have a t:slim x2 with Control-IQ technology pump
   b. Pump and smartphone must be paired and in range
   c. Must have Wi-Fi or cellular connectivity to the app
   d. User must have a t:connect account
   e. Smartphone security feature must be enabled
   f. All of the above

36. The App Guide:
   a. Is found by tapping "Settings" then "Help," is always up to date, and is available offline
   b. Is a resource for app troubleshooting
   c. Provides steps for getting started, including Smartphone set up and app tour
   d. All of the above

37. True or False? The Correction Bolus toggle (circled below) allows the user to accept or decline a recommended correction bolus. If the glucose entered is <70 mg/dL, the Correction toggle will not be available.

   a. True
   b. False

Insulin Pump Knowledge Assessment Answer Sheet

NAME	TITLE	DATE (MONTH/DAY/YEAR)

Total of 37 Possible Points	Passing Score is 37 (100%)
_____ # correct	_____ %
ASSESSED BY NAME/TITLE_____	

1. _____
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27. _____ 37. _____