SCRIPT: "In this next set of questions, we are asking you to perform a simple memory test. As people get older, it is common to have slight memory problems, and it may just be a normal part of getting older. Some of the questions I will ask you are very easy and may even sound a little silly. Some of the questions are very hard, and nobody gets all correct. I have to ask you ALL the questions, so just do the best you can".

1. Where were you born?
   City/Town: ____________________
   1 Correct  8 Error/Refused  9 Not Att/Disabled

   CITY/TOWN OF BIRTH (from previous records): ____________________

   State/Country: ____________________
   1 Correct  8 Error/Refused  9 Not Att/Disabled

2. When were you born?
   Year: ___ / ___ / ______
   2 Correct  1 Missed by 1-3 years  0 Missed by > 3 years  9 Not Att/Disabled

   DATE OF BIRTH (from previous records): ___ / ___ / ______

   Month: ___ / ___ / ______
   1 Correct  0 Error/Refused  9 Not Att/Disabled

   Day: ___ / ___ / ______
   1 Correct  0 Error/Refused  9 Not Att/Disabled

3. How old are you?
   AGE (from previous records): ______ years (as of today's date).
   2 Correct  1 Missed by 1-3 years  0 Missed by > 3 years  9 Not Att/Disabled

4a. How many minutes are there in an hour? (score 2 if either question answered correctly)
   2 Correct  → Skip 4b
   0 Error/Refused  → Continue with 4b
   9 Not Att/Disabled

   4b. How many days are there in a year?
   2 Correct
   0 Error/Refused
   9 Not Att/Disabled
5. In what direction does the sun set? (if confused, may provide 4 choices)

**NOTE:** *If the participant seems confused, provide the four choices “north, south, east, west”. If the participant points, ask “Is that north, south, east or west?”*

\[ \circ 2 \text{ Correct} \quad \circ 0 \text{ Error/Refused} \quad \circ 9 \text{ Not Att/Disabled} \]

6. I am going to say 3 words for you to remember. Repeat them after I have said all three

<table>
<thead>
<tr>
<th></th>
<th>Correct</th>
<th>Error/Refused</th>
<th>Not At/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoes</td>
<td></td>
<td></td>
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<tr>
<td>Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charity</td>
<td></td>
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</table>

**NOTE:** If participant can't answer the first time, elaborate and repeat up to a total of 3 times. Score last performance.

"Let me say the three words again. They are... SHOES - something to wear, BLUE - a color, and CHARITY - a good personal quality. Now say the 3 words again".

7. I shall say some numbers, and you repeat what I say backwards. For example, if I say 1-2, you say 2-1. Ok? Remember, you repeat what I say backwards

- a. 1-2-3 (If unable, coach for 3-2-1, but score 0):

- b. 6-8-2 (If score is 0 in both A and B , score C 0 )

- c. 3-5-2-9

8. What three words did I ask you to remember earlier?

- a. Shoes
  - 1.5 \( \circ \) Spontaneous recall
  - 1 \( \circ \) After: "one word was something to wear"
  - .5 \( \circ \) After: "Was it shoes, shirt, or socks"?
  - 9 \( \circ \) Not attempted/disabled

- b. Blue
  - 1.5 \( \circ \) Spontaneous recall
  - 1 \( \circ \) After: "one word was a color"
  - .5 \( \circ \) After: "Was it blue, black, or brown"?
  - 9 \( \circ \) Not attempted/disabled

- c. Charity
  - 1.5 \( \circ \) Spontaneous recall
  - 1 \( \circ \) After: "one word was a good personal quality"
  - .5 \( \circ \) After: "Was it honesty, charity, or modesty"?
  - 9 \( \circ \) Not attempted/disabled

**NOTE:** Unless recall is perfect, give another reminder of the 3 words.
"Next I'm going to ask you to do some mental subtraction".

**NOTE:** For the first error only, score 0, but provide the correct answer. If subject asks examiner to repeat answer from previous step, provide the answer but score 0 at that step. Discontinue after 2 consecutive 0's for any reason and score the remaining steps as 0.

9 a. From 100, take away 3 equals how many? (97)  
Correct  | Error/Refused  | Not Att/Disabled
------- | -------------- | ---------------
         | 1             | 0               | 0

b. And take away 3 from that equals? (94)  
(If A and B are both scored 0, score C 0)
Correct  | Error/Refused  | Not Att/Disabled
------- | -------------- | ---------------
         | 1             | 0               | 0

9 c. Repeat "And take away 3 again equals?" (91)  
(ask 3 more times)
Correct  | Error/Refused  | Not Att/Disabled
------- | -------------- | ---------------
         | 1             | 0               | 0

10. What is today's date?  

TODAY'S DATE: __/__/______

a. Year  
4 Accurate  
2 Missed by 1 year  
1 Missed by 2-5 years  
0 Missed by 6 or more years  
9 Not attempted/disabled

b. Month  
2 Accurate or within 5 days  
1 Missed by 1 month  
0 Missed by 2 or more months  
9 Not attempted/disabled

c. Date  
3 Accurate (of the month)  
2 Missed 1 or 2 days  
1 Missed by 3-5 days  
0 Missed by 6 or more days  
9 Not attempted/disabled

11. What day of the week is today?  
Correct  | Error/Refused  | Not Att/Disabled
------- | -------------- | ---------------
1        | 0             | 0

DAY OF THE WEEK: ______________

12. What season of the year is it?  
Correct  | Error/Refused  | Not Att/Disabled
------- | -------------- | ---------------
1 Accurate within 1 month  
0 Missed by > 1 month  
9 Not attempted/disabled

SEASON: ______________

**NOTE:** Use chart to assist in correct response. If not immediately provided, say "Is it Spring, Summer, Fall or Winter?"
NOTE: If the participant gives no response in 10 seconds and there are still at least 10 seconds of remaining time, gently remind him only once "What (other) animals have 4 legs?". For the first incorrect answer, remind the participant "I want you to name four-legged animals".

14. What animals have 4 legs?
Tell me as many as you can. (30 seconds)

"The next set of questions is about how 2 things are alike. For example, an orange and a banana - the way that they are alike is that they are both fruit.

15. An orange and a banana are both fruit. (pause for 2 sec., then ask:)
(coach for correct answer if needed for "a" only)

a. An arm and a leg are both... ?
   2  Body parts, limbs, extremities
   1  Long, bend, muscles, bones, etc.
   0  Incorrect/Don't Know
   9  Not attempted/disabled
   RECORD RESPONSE HERE: ______

b. Laughing and crying are both... ?
   2  Expressions of feelings/emotions
   1  Other correct answer
   0  Incorrect/Don't Know
   9  Not attempted/disabled
   RECORD RESPONSE HERE: ______

c. Eating and sleeping are both... ?
   2  Necessary bodily functions
   1  Other correct answer
   0  Incorrect/Don't Know
   9  Not attempted/disabled
   RECORD RESPONSE HERE: ______

16a. What actions would you take if you saw your neighbor's house catching fire? (prompt "What else might you do? once only, if necessary)

NOTE: Score 1 point (up to 2) for each correct responses: call 911, alert fire/police department, save/alert residents, help put out fire, safeguard your own property/family, alert neighbors, try to help.

No. of appropriate actions: 0 1 2

b. What actions would you take if you lost a borrowed umbrella?
(1 point for each category of actions)
   Inform/Apologize 1: Correct
   Replace/Compensate 1: Correct
   ○  Error/Refused
   ○  Not Att/Disabled
   ○  Not Att/Disabled

c. What would you do if you found an envelope that was sealed, addressed and had a new stamp?
   2  Mail
   1  Try to locate the owner
   0  Inappropriate action
   9  Not attempted/disabled
17. **Repeat exactly** what I say:

   a. "He would like to go home."
      
      2 O Correct
      1 O 1 or 2 missed/wrong words
      0 O 3 or more missed/wrong words
      9 O Not attempted/disabled

   **NOTE:** For each part of 17b, score 1 only if repeated exactly as given

   b. Now repeat ...

<table>
<thead>
<tr>
<th>&quot;This yellow circle is heavier than blue square&quot;</th>
<th>Correct</th>
<th>Error/Refused</th>
<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O 1</td>
<td>O 0</td>
<td>O 9</td>
</tr>
<tr>
<td></td>
<td>O 1</td>
<td>O 0</td>
<td>O 9</td>
</tr>
<tr>
<td></td>
<td>O 1</td>
<td>O 0</td>
<td>O 9</td>
</tr>
</tbody>
</table>

18. Please do this: (Point to statement "Raise your Hand")

   1.5 O Raises hand without prompting
   1 O Raises hand after prompting  "Thank you, you can put it down now"
   .5 O Reads correctly, but does not raise hand
   0 O Neither reads nor obeys
   9 O Not attempted/disabled

19. Let me have a sample of your handwriting. Please write: (He) would like to go home. (1 min.) (may dictate 1 word at a time if necessary)

<table>
<thead>
<tr>
<th>Correct</th>
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<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. would</td>
<td>O .5</td>
<td>O 0</td>
</tr>
<tr>
<td>b. like</td>
<td>O .5</td>
<td>O 0</td>
</tr>
<tr>
<td>c. to</td>
<td>O .5</td>
<td>O 0</td>
</tr>
<tr>
<td>d. go</td>
<td>O .5</td>
<td>O 0</td>
</tr>
<tr>
<td>e. home</td>
<td>O .5</td>
<td>O 0</td>
</tr>
</tbody>
</table>

   **HAND USED TO WRITE SENTENCE:** _____ right _____ left
20. Please copy this: (show pentagons - 1 minute)

**NOTE:** For right-handed persons, present the sample on their left side. For left-handed persons, present the sample on their right side.

a. **Left Pentagon**
   - 4 O 5 approx. equal sides
   - 3 O 5 but un-equal (>2:1) sides
   - 2 O Any other enclosed figure
   - 1 O 2 or more lines but without closure
   - 0 O Less than 2 lines
   - 9 O Not attempted/disabled

b. **Right Pentagon**
   - 4 O 5 approx. equal sides
   - 3 O 5 but un-equal (>2:1) sides
   - 2 O Any other enclosed figure
   - 1 O 2 or more lines but without closure
   - 0 O Less than 2 lines
   - 9 O Not attempted/disabled

c. **Intersections**
   - 2 O 4 cornered
   - 1 O Not 4-cornered enclosure
   - 0 O No enclosure
   - 9 O Not attempted/disabled

21. Take this paper with your:

**NOTE:** For question 21, do not repeat any part of the command. (Use non-dominant hand)

<table>
<thead>
<tr>
<th>Correct</th>
<th>Error/Refused</th>
<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. (left)/(right) hand</td>
<td>O 1</td>
<td>O 0</td>
</tr>
<tr>
<td>b. fold it in half, and</td>
<td>O 1</td>
<td>O 0</td>
</tr>
<tr>
<td>c. hand it back to me</td>
<td>O 1</td>
<td>O 0</td>
</tr>
</tbody>
</table>

22. What three words did I ask you to remember earlier?

**shoes**

a. **Shoes**
   - 1.5 O Spontaneous recall
   - 1 O After: "one word was something to wear"
   - .5 O After: "Was it shoes, shirt, or socks"?
   - 0 O Still incorrect
   - 9 O Not attempted/disabled

b. **Blue**
   - 1.5 O Spontaneous recall
   - 1 O After: "one word was a color"
   - .5 O After: "Was it blue, black, or brown"?
   - 0 O Still incorrect
   - 9 O Not attempted/disabled

c. **Charity**
   - 1.5 O Spontaneous recall
   - 1 O After: "one word was a good personal quality"
   - .5 O After: "Was it honesty, charity, or modesty"?
   - 0 O Still incorrect
   - 9 O Not attempted/disabled
23. What do we call this part of the face/body? (2 seconds each)

**NOTE:** Ask this while pointing to the appropriate part on your own body. **Do not repeat.**

<table>
<thead>
<tr>
<th>Correct</th>
<th>Error/Refused</th>
<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. forehead</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>b. chin</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>c. shoulder</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>d. elbow</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>e. wrist</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

24. What is this? (show one at a time)

**NOTE:** Present one item at a time and ask the participant to name it. If the participant cannot name an object in 2 seconds, put it in the participant's hand and ask "What do you call this?" If he/she still cannot name it, wait 4 seconds, say (for key) "It is a key... say key."

<table>
<thead>
<tr>
<th>Correct</th>
<th>Error/Refused</th>
<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. spoon</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>b. coin</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>c. toothbrush</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>d. key</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>e. comb</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Total number of objects either named spontaneously or repeated perfectly after coaching: [ ] (max. 5)

25. Remember these 5 objects. (Wait for 5 sec., cover, then ask "What 5 objects did I just show you?". Any order is OK)

**NOTE:** Terminate testing when the participant has reported 5 objects (including incorrect names) or when the participant cannot recall any additional item in 5 seconds.

<table>
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<th>Error/Refused</th>
<th>Not Att/Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. spoon</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>b. coin</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>c. toothbrush</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>d. key</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>e. comb</td>
<td>6</td>
<td>0</td>
</tr>
</tbody>
</table>

26. Once again, where were you born? **(If this matches with Q1, assume it is correct)**

1  ○ Correct  0  ○ Error/Refused  9  ○ Not Att/Disabled

"Those are all the questions we have on this examination. Thank you for completing them for us".
Finish time (hr:min): [ ] : [ ]  
Duration (minutes): [ ]

**VALIDITY OF SCORE**

- 1 Valid
- 2 Probably invalid: poor hearing
- 3 Probably invalid: poor eyesight
- 4 Probably invalid: impaired motor control
- 5 Probably invalid: language barrier
- 6 Probably invalid: impaired alertness and attentiveness
- 7 Probably invalid: significant physical/mental discomfort
- 8 Probably invalid: other reasons
   specify: [ ]
RAISE YOUR HAND