

# OBJECTIVE STRUCTURED PRACTICAL EXAMINATION

(OSPE)



## **Objective Structured Practical Examination (OSPE)**

**Skill Station:** Testing urine for protein

**Situation:** Mrs. Vijaya is a 28-year-old, gravid 2, at 26 weeks of pregnancy has confirmed and registered her pregnancy in other town, and now shifted to your town. You have already conducted the history, physical examination and have found everything normal. Now you will demonstrate urine test for protein as part of investigation. You explained to the woman how to collect a clean catch specimen of urine, gave her a labeled container, and instructed her to collect midstream urine.

### **CHECK LIST FOR QUANTITATIVE EXPERIMENT**

<b>Topic</b>	<b>Max marks</b>	<b>Marks obtained</b>
Identifies the test method	2	
Explains the principle	2	
Explains the procedure	2	
Accurate use of micropipette	2	
Does steps done in order	3	
Takes the reading using semi autoanalyser/colorimeter	2	
Performs the given test with accurate value/close to true value	3	
Interprets the result	2	
Cautious of personal safety	2	
Total	20	



### Objective Structured Practical Examination (OSPE)

Student Regd. Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Skill Station:** Testing urine for protein

**Observation:** Observe if the participant is performing the following steps of testing urine for protein in their correct sequence (as necessary) and technique.

Score "1" for each point conducted correctly or mark "0" if the task is not done or incorrectly done and calculate the score.

S.No	STEP/TASK	Score 1/ 0	Remarks
1	Fill three-fourths of the test-tube with urine and heat the upper third of the urine over the spirit lamp and allow it to boil.		
2	Turbidity of the sample indicates the presence of either phosphate or albumin.		
3	Add 2-3 drops of 2%-3% acetic acid drop by drop into the test-tube.		
4	Observe the sample and interpret.		
5	Explain & record result.		

Student Score = \_\_\_\_\_

### Objective Structured Practical Examination (OSPE)

Student Regd. Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Skill Station:** Testing urine for protein

**Observation:** Observe if the participant is performing the following steps of testing urine for protein in their correct sequence (as necessary) and technique.

Score "1" for each point conducted correctly or mark "0" if the task is not done or incorrectly done and calculate the score.

S.No	STEP/TASK	Score 1/ 0	Remarks
1	Fill three-fourths of the test-tube with urine and heat the upper third of the urine over the spirit lamp and allow it to boil.		
2	Turbidity of the sample indicates the presence of either phosphate or albumin.		
3	Add 2-3 drops of 2%-3% acetic acid drop by drop into the test-tube.		
4	Observe the sample and interpret.		
5	Explain & record result.		

Student Score = \_\_\_\_\_

## Objective Structured Practical Examination (OSPE)

**Skill Station:** Testing urine for glucose

**Situation:** Mrs. Ranjini is a 28-year-old, has come today to you for her first ANC visit and registration. You have already conducted the history, physical examination and have found everything normal. Now you will demonstrate urine test for sugar as part of investigation.

*You explained to the woman how to collect a clean catch specimen of urine and gave her a labeled container and instructed her to collect midstream urine.*

### CHECK LIST FOR QUALITATIVE EXPERIMENT

Topic	Max marks	Marks obtained
Identifies the test method	2	
Explains the principle	2	
Explains the procedure	2	
Accurate use of micropipette	2	
Does steps done in order	3	
Takes <del>note of</del> <sup>note of</sup> the result and a secondary sex/color indicator	2	
Performs the given test with accurate <del>report</del> <sup>report</sup> of the color	3	
Interprets the result	2	
Cautious of personal safety	2	
Total	20	



### Objective Structured Practical Examination (OSPE)

Student Regd. Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Skill Station:** Testing urine for glucose

**Observation:** Observe if the participant is performing the following steps of testing urine for sugar in their correct sequence (as necessary) and technique.

Score "1" for each point conducted correctly or mark "0" if the task is not done or incorrectly done and calculate the Score.

S.No	STEP/TASK	Score 1/ 0	Remarks
1	Take 5 ml of Benedict solution in a test-tube; Boil it over the bunsen burner, holding the test-tube away from your face.		
2	Add 8 drops of urine with the help of a dropper. Shake it well and boil.		
3	Allow it to cool and observe the color.		
4	Interpretations: Green precipitate: + Green liquid with yellow deposits: ++ Colorless liquid with orange deposits: +++ Brick red: ++++ or more sugar No precipitate: No sugar		
5	Explain & record result.		

Student Score = \_\_\_\_\_

### Objective Structured Practical Examination (OSPE)

Student Regd. Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Skill Station:** Testing urine for glucose

**Observation:** Observe if the participant is performing the following steps of testing urine for sugar in their correct sequence (as necessary) and technique.

Score "1" for each point conducted correctly or mark "0" if the task is not done or incorrectly done and calculate the Score.

S.No	STEP/TASK	Score 1/ 0	Remarks
1	Take 5 ml of Benedict solution in a test-tube; Boil it over the bunsen burner, holding the test-tube away from your face.		
2	Add 8 drops of urine with the help of a dropper. Shake it well and boil.		
3	Allow it to cool and observe the color.		
4	Interpretations: Green precipitate: + Green liquid with yellow deposits: ++ Colorless liquid with orange deposits: +++ Brick red: ++++ or more sugar No precipitate: No sugar		
5	Explain & record result.		

Student Score = \_\_\_\_\_