

The National Dental Examining Board of Canada  
Le Bureau National d'Examen Dentaire du Canada

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**OBJECTIVE STRUCTURED CLINICAL EXAMINATION**

**2012**

**PROTOCOL**

The National Dental Examining Board of Canada  
Le Bureau National d'Examen Dentaire du Canada

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## OBJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE)

2012

### I CONTENT AND FORMAT

The OSCE is a station type examination comprised of a morning session and an afternoon session on the same day.

The majority of the stations will have 2 questions and will require the candidate to review the information supplied (e.g. case history, dental charts, photographs, radiographs, casts, models) and answer extended match type questions. Each extended match type question will have up to 15 answer options and one or more correct answers. All answers for these questions must be recorded on the answer score sheet provided.

A few stations may require the candidate to review the information supplied and write an acceptable prescription for a medication commonly prescribed by general dentists in Canada. Any required prescription must be legibly written on the supplied form and submitted as directed. The candidate's NDEB Identification Number must be correctly recorded on the prescription form.

Candidates will have 5 minutes at each station to answer the questions. After 5 minutes the candidate will move to the next station. The Question and Answer Framework for the examination is available at

<http://www.ndeb.ca/sites/default/files/OSCE3%20English%20Template%202012.pdf>

The list of competencies from which examination items are developed is available at <http://www.ndeb.ca/accredited/competencies>

### II SCHEDULE

Validation of Registration	8:30 am
Morning Examination Session	9:00 am to 11:30 am
Afternoon Examination Session	1:30 pm to 4:15 pm

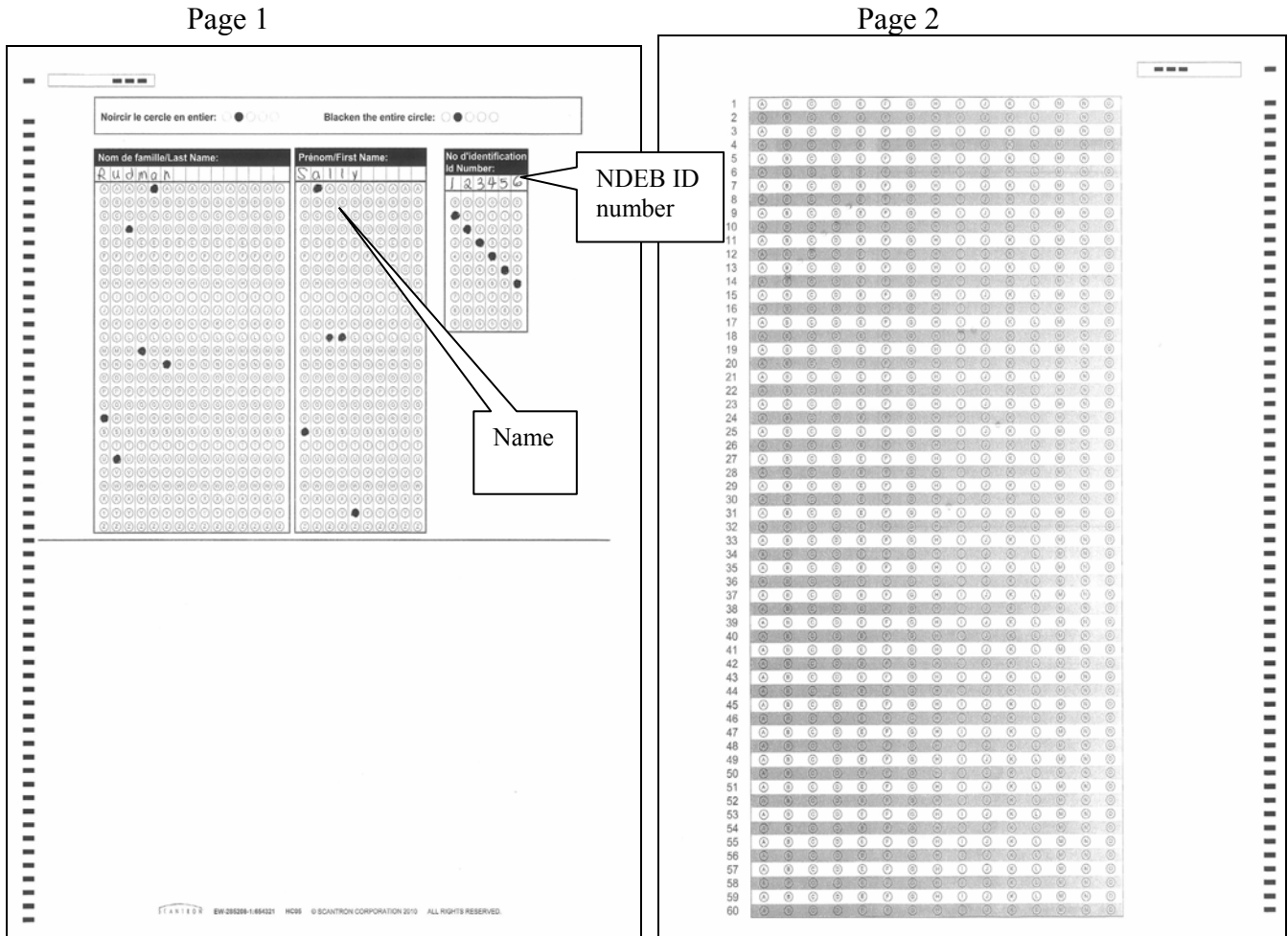
### III **VALIDATION OF REGISTRATION**

During the validation of registration candidates will be issued an Identification (ID) card. To receive the ID card, candidates will be required to show current government photo identification, (i.e. a current passport or driver's licence), for comparison to the ID card. Candidates who do not provide government photo identification will not be admitted.

Candidates must have the ID card visible at all times and must return the card to the Test Administrator at the end of the examination. The back of the ID card may be used for calculation or rough notes. Candidates must take the ID card with them from station to station during the examination and leave it at the last station at the end of each session. Removing any paper with copied test items or notes from the examination location is prohibited and will be considered as compromising the integrity of the examination. The consequences of such actions are delineated in NDEB By-law 18.01. The NDEB will verify that all ID cards are returned. Candidates who fail to return the ID card may receive a zero ("0") score for the examination.

### IV **INSTRUCTIONS**

1. Enter your NAME and your assigned ID number in the indicated areas on the answer score sheet.
2. Each question is followed by a choice of answers. Record your answer(s) on the answer score sheet using a standard (wood) lead pencil (No. 2 or HB) only. No other writing devices (e.g. mechanical pencils; pens or felt-type markers) are allowed in the examination area. When entering answers make heavy black marks that completely fill the appropriate circle(s).
3. If you change your answer, make sure that the original mark is thoroughly erased. Use a standard block eraser. Mechanical erasers are not allowed.
4. Make no stray marks on the answer score sheet.
5. Ensure that you record your answer(s) in the correct place opposite the correct question number.



- Any candidate writing on, or marking examination material, other than the score sheet and the ID card will be dismissed from the examination and will be given a zero (“0”) score for the examination.
- Candidates may use magnification aids such as magnifying glasses or loupes.
- Note that when viewing prints of the radiographs, you are facing the patient.
- The transfer of answers to the computer score sheet **MUST** be completed within the session time. Additional time will not be allowed.

10. The FDI two-digit tooth numbering system (below) is used in all examinations.

**FDI / UNIVERSAL NUMBERING SYSTEM**

**PERMANENT DENTITION**

<b>FDI</b>	<b>1.8</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.4</b>	<b>1.3</b>	<b>1.2</b>	<b>1.1</b>	<b>2.1</b>	<b>2.2</b>	<b>2.3</b>	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>	<b>2.7</b>	<b>2.8</b>	<b>FDI</b>
Universa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Universa
l	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	l
<b>FDI</b>	<b>4.8</b>	<b>4.7</b>	<b>4.6</b>	<b>4.5</b>	<b>4.4</b>	<b>4.3</b>	<b>4.2</b>	<b>4.1</b>	<b>3.1</b>	<b>3.2</b>	<b>3.3</b>	<b>3.4</b>	<b>3.5</b>	<b>3.6</b>	<b>3.7</b>	<b>3.8</b>	<b>FDI</b>
	<b>RIGHT</b>								<b>LEFT</b>								

**PRIMARY DENTITION**

<b>FDI</b>	<b>5.5</b>	<b>5.4</b>	<b>5.3</b>	<b>5.2</b>	<b>5.1</b>	<b>6.1</b>	<b>6.2</b>	<b>6.3</b>	<b>6.4</b>	<b>6.5</b>	<b>FDI</b>
Universa	A	B	C	D	E	F	G	H	I	J	Universa
l	T	S	R	Q	P	O	N	M	L	K	l
<b>FDI</b>	<b>8.5</b>	<b>8.4</b>	<b>8.3</b>	<b>8.2</b>	<b>8.1</b>	<b>7.1</b>	<b>7.2</b>	<b>7.3</b>	<b>7.4</b>	<b>7.5</b>	<b>FDI</b>
	<b>RIGHT</b>					<b>LEFT</b>					

## V SAMPLE QUESTIONS

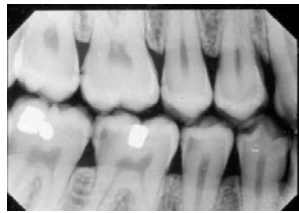
The Question and Answer Frameworks for all questions used in the OSCE are available at <http://www.ndeb.ca/sites/default/files/OSCE3%20English%20Template%202012.pdf>

Candidates are strongly encouraged to visit the website in preparation for the examination.

Sample questions below illustrate the formats generally used in the OSCE.

### SAMPLE STATION S1

*Using the print of radiograph Sample1, answer the following question on the answer score sheet.*



**Radiograph Sample1**

**Sample Question: 1** (Select **ONE OR MORE** correct answers.)

There is radiographic evidence of caries on the

- A. distal of tooth 4.3.
- B. mesial of tooth 4.4.
- C. distal of tooth 4.4.
- D. mesial of tooth 4.5.
- E. distal of tooth 4.5.
- F. mesial of tooth 4.6.
- G. distal of tooth 4.6.
- H. mesial of tooth 4.7.
- I. distal of tooth 4.7.
- J. mesial of tooth 4.8.
- K. distal of tooth 4.8.

Answer:    A B C D E F G H I J K L M N O

## SAMPLE STATION S2

Many questions include patient case histories in the format illustrated below.

Using the following information and the print of radiograph \_\_\_\_\_, answer the following question on the answer score sheet.

### Patient Information:

Age:	58	Blood Pressure:	120/80 mmHg
Gender:	Male	Pulse Rate:	72 bpm
Height:	180cm (5'11")	Respiration Rate:	14/min
Weight:	70kg (154lbs)	Temperature:	37°C (98.6°F)

**Chief Complaint:** "My dentures are loose."

**History of Chief Complaint:** Has noticed looseness increasing for past 2 years.

**Dental History:** Present dentures 20 years old.

### Medical History:

Significant Findings:	None
Current Medication:	None
Allergies:	None

### Social/Family History:

Significant Findings:	Smoker, ½ package/day for past 20 years. Alcohol consumption: 7 drinks/week.
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### Clinical Examination:

Significant Findings:	
Extraoral:	None
Intraoral:	See chart.

### Sample Question: 2 (Select ONE correct answer.)

Which of the following is the most likely anatomical structure/diagnosis for the radiographic entity indicated by the arrow(s)?

- A. Normal tooth.
- B. Calcifying tooth crown.
- C. Developing root apex.
- D. Hypercementosis.
- E. Attrition.
- F. Tooth fracture.
- G. Rarefying osteitis/periradicular periodontitis.
- H. Periapical cemento-osseous dysplasia.
- I. Odontoma.
- J. Dens invaginatus/dens-in-dente.
- K. Dentin dysplasia.
- L. Dentinogenesis imperfecta.
- M. Amelogenesis imperfecta.
- N. Enamel hypoplasia/Turner's tooth.
- O. Regional odontodysplasia.

Answer:  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O

**Information for stations which include a periodontal chart**

The following represents an example of a periodontal chart that may be used on some stations in the OSCE. Each chart will utilize the following notation:

- The upper part of the chart denotes the findings on the vestibular (buccal and/or labial) surfaces of the teeth being discussed for the case.
- Missing teeth are denoted by a large “X”.
- Pocketing depths, in millimeters, are listed in the next row below the tooth number.
- Recession, if significant, is listed below the pocketing, in millimeters. If there is no number, there is no significant recession.
- Bleeding on probing, if significant, is denoted by “•”, and is listed directly below the pocket where bleeding was found.
- The middle part of the chart denotes the findings for the lingual surfaces, using the same categories as above.
- Mobility and furcation involvement apply to the entire tooth and can be found on the bottom part of the chart.
- Mobility for the tooth, if present, is listed as a “1, 2, or 3”, using the Miller classification.
- The Class (I, II, III) of furcation involvement (if present) is listed with the surface indicated (B, L, M, D).

This particular example is a chart of the maxillary second quadrant, with tooth 2.6 missing. The probing depths, in millimeters, are listed, going from mesial on the left, to distal on the right. In this example, there is 3mm of recession all along the buccal of teeth 2.4 and 2.5. No other recession is noted. There is bleeding on probing on the mesiobuccal and distobuccal of teeth 2.5 and 2.7, and all along the lingual of tooth 2.7. No other bleeding is noted. Tooth 2.7 has a buccal furcation class III and a class 2 mobility. There are no other mobilities or furcation involvements.

**Vestibular**

<b>Tooth</b>	<b>2.3</b>	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>	<b>2.7</b>
<b>Probing depth</b>	3 2 4	4 5 4	4 4 6	<del>X</del>	4 7 6
<b>Recession</b>		3 3 3	3 3 3	<del>X</del>	
<b>Bleeding on probing</b>			• •	<del>X</del>	• •

**Lingual**

<b>Tooth</b>	<b>2.3</b>	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>	<b>2.7</b>
<b>Probing depth</b>	2 2 2	3 4 4	4 3 5	<del>X</del>	5 5 6
<b>Recession</b>				<del>X</del>	
<b>Bleeding on probing</b>				<del>X</del>	• • •

<b>Mobility</b>					2
<b>Furcation</b>					B-III

**Information for stations that require a written prescription**

For stations requiring a prescription to be written, blank prescription forms, as illustrated below, will be available at the station.

Enter your ID number where indicated on the prescription. Write the appropriate prescription for the patient as described in the case history at the station.

Use your pencil to write the prescription, but do not sign the prescription. Signing the prescription may result in a zero ("0") score.

Drop the prescription into the box at the station before leaving the station.

Station S  
Page 2 of 2

**THE NATIONAL DENTAL EXAMINING BOARD OF CANADA  
STATION S**

NDEB ID Number  
ONLY

**Question:** NDEB ID# \_\_\_\_\_

**DOCTOR XXX XXXXX  
100 ANYWHERE STREET  
ANYWHERE CITY, CANADA**

DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

**Rx**

NO REPEAT

REPEAT \_\_\_\_ TIME(S)

SIGNATURE XXXXXXXXXX  
(DO NOT SIGN PRESCRIPTION)

## VI SCORING

An example of the scoring system follows. The score for each answer is given to the left of each answer.

### 1. **Single Correct Answer**

Some questions have 1 correct answer, indicated by the direction “Select **ONE** correct answer.”. Select the most likely answer or most appropriate answer.

**Question: 1** (Select **ONE** correct answer.)

Orthodontic treatment (dental and/or skeletal) for this patient

#### **Value**

- 1
- A. is not required at this time.
  - B. should be initiated during the primary dentition.
  - C. should be initiated during the early mixed dentition (after eruption of the first permanent molars and incisors).
  - D. should be initiated during the late mixed dentition prior to the pubertal growth spurt.
  - E. should be initiated immediately following the eruption of the permanent second molars.
  - F. should be initiated after the completion of growth.

### 2. **One or More Correct Answers**

Some questions have one or more correct answers, indicated by the direction “Select **ONE OR MORE** correct answers.”. Select all answers that are correct. The maximum score for any question is one (“1”). The minimum score for any question is zero (“0”). Part marks will be awarded if some, but not all correct answers are selected, provided no incorrect answer is selected. Marks will be deducted for incorrect responses, but no question will receive a score less than zero (“0”). Some answers are neither definitely correct nor incorrect and have been given a value of zero (“0”). Selecting one of these answers will not affect the score given to a candidate. But, if a definitely incorrect answer is selected the candidate will receive a zero (“0”) score for the entire question.

The following is an illustration of the scoring system. The score for each answer is given to the left of each answer.

**Question: 2** (Select **ONE OR MORE** correct answers.)

There is radiographic evidence of caries on the

<b>Value</b>			<b>Value</b>		
-1	A.	distal of tooth 2.3.	0	G.	distal of tooth 2.6.
-1	B.	mesial of tooth 2.4.	0	H.	mesial of tooth 2.7.
-1	C.	distal of tooth 2.4.	-1	I.	distal of tooth 2.7.
.3	D.	mesial of tooth 2.5.	-1	J.	mesial of tooth 2.8.
.3	E.	distal of tooth 2.5.	0	K.	distal of tooth 2.8.
.4	F.	mesial of tooth 2.6.			

3. **Prescriptions**

Questions that require the writing of a prescription will be scored from a minimum of zero (“0”) to a maximum of four (“4”).

VII **REFERENCE TEXTS**

A list of textbooks and references commonly used in DDS/DMD programs is available at <http://www.ndeb.ca/references>

VIII **EXAMINATION REGULATIONS**

1. Candidates must be punctual for all sessions of the examination. Candidates arriving late for a session may not be admitted.
2. Family or friends must not accompany a candidate as space at the examination centre is provided ONLY for candidates and staff.
3. Candidates must not bring devices with recording, transmitting or receiving abilities, radios, cameras, cell phones, pagers or other electronic aids/devices into the examination room.
4. Candidates may not use dictionaries, calculators or other informative material.

5. Food and/or drink (including water) are not allowed in the examination room unless special consideration for medical reasons has been granted by the NDEB office. The request must include a medical certificate signed by a physician indicating the diagnosis and accommodation measures required.
6. The ability of a candidate to read, interpret and comply with instructions and other written material is part of the examination. Test Administrators and invigilators will not answer questions involving examination content.
7. Once the examination is in progress, any candidate who leaves the examination room for any reason, including the use of washroom facilities, **WILL NOT** be allowed to re-enter unless special consideration for medical reasons has been granted by the NDEB office. The request must include a medical certificate signed by a physician indicating the diagnosis and accommodation measures required.
8. Candidates requiring special examination accommodation, including accommodation due to a diagnosed medical condition must request special consideration in writing to the NDEB office within two (2) weeks of receipt of confirmation of registration in the examination. The request must include original documentation indicating the accommodation measures required. Additional supporting documentation may be requested by the NDEB office.
9. Candidates are prohibited from copying or otherwise obtaining answers from other candidates; from providing answers to other candidates and from talking or otherwise disrupting the conduct of the examination. Candidates are responsible for ensuring that their answers are not visible to other candidates. Candidates must be aware that the NDEB uses a software program to identify suspicious answer similarities between pairs of candidates and may void the results of both candidates involved in suspicious occurrences identified by the software program.
10. All candidates must move to the next station immediately after hearing the signal. The transfer of answers to the computer answer score sheet **MUST** be completed within the session time. Additional time will not be allowed.
11. Candidates are prohibited from removing test material, including ID cards and answer score sheets, from the examination room and from copying or making notes of any test item. Candidates must leave all examination material at their final station or as directed by the Test Administrator.
12. Candidates are reminded that all examination material is copyrighted. Any attempt to reproduce or assemble examination material is strictly prohibited and will be prosecuted.

13. Any prescription not submitted as directed, not legible, submitted with a missing or incorrect ID number, or a signed prescription will receive a zero (“0”) score.
14. Candidates who do not abide with the above Regulations will receive a zero (“0”) score for the examination.
15. Within three months of the release of the results of the examination, candidates may apply to have their answer score sheets manually checked against the answer key. Any such application for review must be accompanied by a filing fee. Upon verification, the score for the candidate will be that produced by the manual check.
16. A candidate who considers themselves disadvantaged by a personal circumstance beyond the candidate’s control, occurring either immediately before or during the examination may, within one week of this personal circumstance occurring, request that the NDEB make a special consideration to void the results of the examination. The NDEB may grant permission for the candidate to withdraw from the examination. The candidate may also request special consideration for a refund of up to 50% of the examination fee.

## **IX PASSING STANDARD**

In order to assure a consistent level of difficulty, the NDEB uses test equating and re-scaling procedures to correlate candidate raw scores to scores on a reference examination and to a standardized passing score of 65. Candidates must obtain a minimum test equated, re-scaled score of 65 to be successful in the OSCE. Candidates who attain a test equated, re-scaled score of 65 or greater will receive a result of Pass. Candidates who achieve a test equated, re-scaled score of less than 65 will receive a result of Fail. Candidates who receive a Fail result will also be given their test equated, re-scaled score.

Please note that the examination may contain a number of questions that are being tested and that these questions may not contribute to any candidate’s result.

## **IV RESULTS**

The results of the OSCE will be posted on a secure website that will be accessible using the secure code provided at the time of initial registration. Posting of results will normally be done within 6 weeks and an e-mail notification of the posting will be sent to candidates.

Results will not be released by telephone, fax, or email.