



NARAYANA COLLEGE OF NURSING

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B.SC NURSING PROGRAMME
NURSING FOUNDATION

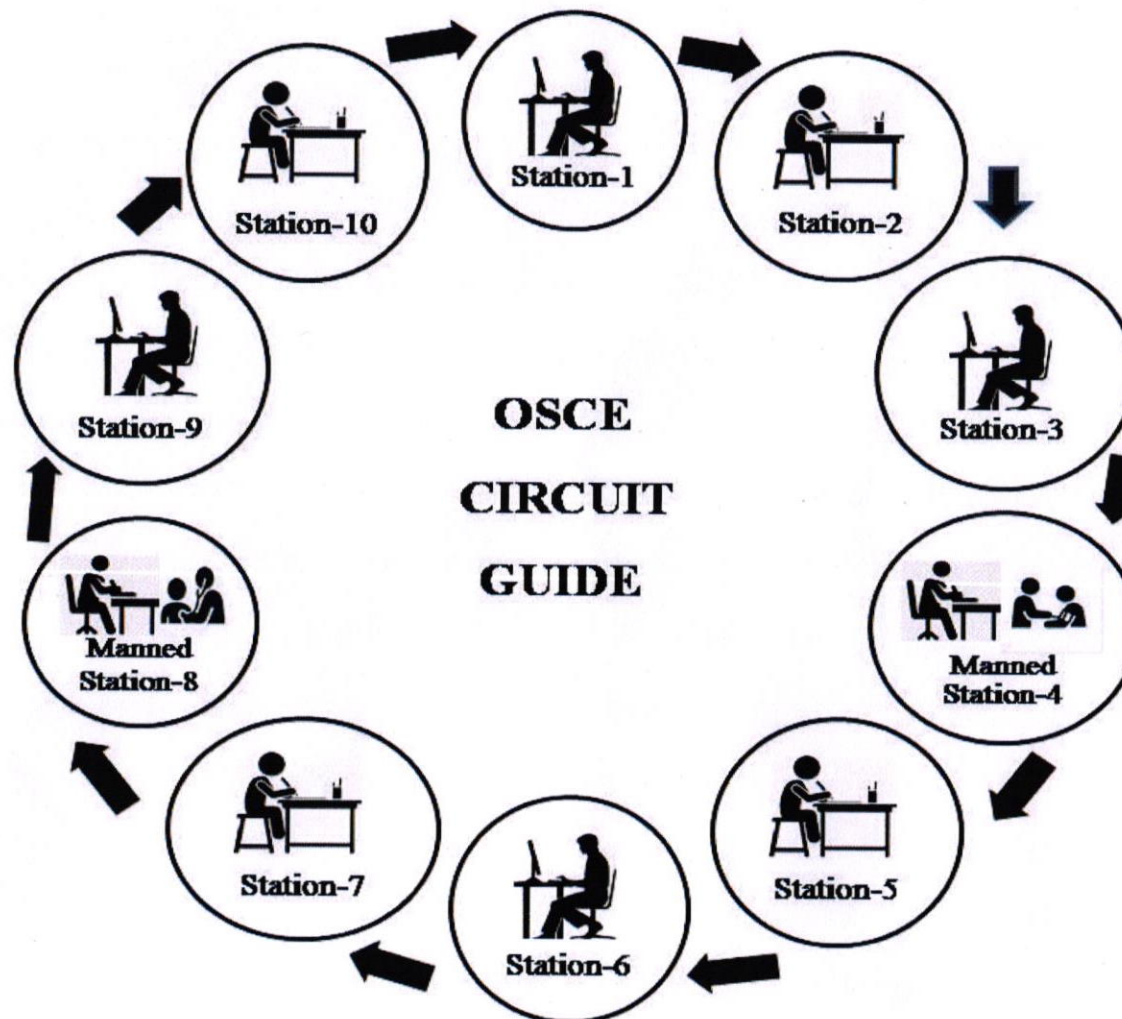
OSCE / OSPE
STATION BANK

Dr. B. Anji
Principal

NARAYANA COLLEGE OF NURSING
Chinthareddypalem,
NELLORE - 524 003.



3. OSCE CIRCUIT GUIDE



Dr. B. Anjali
Principal
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B.Sc NURSING DEGREE PROGRAMME – I YEAR
NURSING FOUNDATIONS
OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)
TEST MAP BASED ON BLUE PRINT

Station Num	Type of Station	Program Component	Item Title (Condition)	Competency Tested	Proposed Test Item	Domains of Clinical Experience													
						Communication		Examination		Procedure			Cognitive Skill						
						HT	OC	PE	VSI	TP	DP	IATF	DI	DM	PS				
						A	B	C	D	E	F	G	H	I	J				
1.	Manned	Oxygenation	CPR	TP	Mannequin					1									
2.	Manned	Care of wounds	Eye bandage	TP	Simulated patient					1									
3.	Unmanned	Comfort	Identification of positions & its pressure points	VSI	Printed images				1										
4.	Unmanned	Infection control	Bio Medical Waste Management	DM	Items													1	
5.	Unmanned	Vital signs	Identification of pulse site	VSI	Printed images				1										
6.	Unmanned	Health assessment	Equipment identification	VSI	Equipment				1										
7.	Unmanned	Administration of medication	Drug calculation	PS	Doctor's order														1
8.	Unmanned	Urinary elimination	Urine sample Identification	IATF	Test tubes									1					
9.	Unmanned	Vital signs	Abnormal breath sounds	IATF	Simulator/ laptop									1					
10.	Unmanned	Oxygen administration	Identification of venturi mask	DM	Venturi masks														1

Key words: HT: History Taking; OC: Other Communication; PE: Physical examination; VSI: Virtual Sign Identification; TP: Therapeutic Procedure; DI: Data Interpretation; IATF: Identification Of Abnormal Test Findings; DP : Diagnostic Procedure; DM: Decision Making; PS: Problem Solving

Subject Co-ordinator

HOD

Dr. B. S. Srinivas
Principal

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STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

Steps	Task	Max score	Registration number												
1.	Assesses for the safety of the patient	1													
2.	Positions the patient in supine on a flat surface	1													
3.	Assesses the patient’s response by asking “are you okay?”	1													
4.	Assesses breathing by looking at the chest for movement	1													
5.	If the patient is not breathing, sends or calls for help.	1													
6.	Assesses circulation by palpating for the carotid pulse. If not felt, start compressions immediately	1													
7.	Chest compressions Identifies the center of the chest by placing the hands between the nipples.	1													
8.	Places the heel of the first hand over the lower half of the sternum and 2 nd over the 1 st .	1													
9.	Interlocks the fingers	1													
10.	Keeps the elbows straight and locked	1													
11.	Compresses the chest down 5 cms quickly and forcibly 30 times at a rate of 100 /minute	1													
12.	Observes for the return of chest movement after each compression.	1													
13.	Does not change position or lift hands in between the compressions.	1													
14.	Opens the airway and assess the airway. Use head tilt / chin lift method. Keeps one hand over the patient’s forehead; apply firm pressure and tilt the head back.	1													
	Places the other hand under the bony prominence of the lower jaw and lift the jaw to bring it forward	1													
15.	Mouth to mouth breathing / Ambu Bag: Keeps the airway open, pinch the nose; take a deep breath;	1													
	Forms an airtight seal around the patient’s mouth and ventilates with two full breaths or use Ambu bag. Delivers each breath for one full second (Compression : breaths = 30 :2)	1													
16.	Repeats the previous step until help arrives or until return of spontaneous breaths – whichever is earlier.	1													
17.	Sanitizes hands	1													
18.	Documents the care given	1													
	Total	20													

1=Fully competent; 0 = Incompetent

Name & Signature of the examiner

Dr. B. Anjali
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NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENTS

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner & evaluation proforma• Tray for evaluated response sheet• Pen• Pencil• Scale• Sharpener• Eraser• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Cot with Mannequin• Bed side locker• A clean tray lined with paper containing<ul style="list-style-type: none">❖ Oral airway❖ Ambu bag❖ Mask❖ Hand sanitizer• Response sheet• Chair & Table• Pen

Dy. B. Ching
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STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENTS

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner & evaluation proforma• Tray for evaluated response sheet• Pen• Pencil• Scale• Sharpener• Eraser• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Cot with Mannequin• Bed side locker• A clean tray lined with paper containing<ul style="list-style-type: none">❖ Oral airway❖ Ambu bag❖ Mask❖ Hand sanitizer• Response sheet• Chair & Table• Pen

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STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

INSTRUCTION TO THE EXAMINEE

You have 5 minutes to perform CPR on the mannequin. Conduct a preliminary assessment and perform Basic Cardiac Life Support. Continue until you receive help or until the examiner states that “Vital parameters have improved and are stable”. Use the articles which are near the bedside. Document the care given.

Hand-over the response sheet to the examiner.

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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- assess the safety of the mannequin.
- position the mannequin.
- assess the circulation, airway and breathing of the mannequin
- perform CPR effectively
- document the care given

Observation: Observe if the participant is performing the following steps in the correct sequence when performing CPR. Inform the examinee that "Vital parameters have improved and are stable" or provide help when he/she completes 3-5 cycles of CPR

Score:

Score the task based on the following level of perfection

- **Score "1"** for each step conducted **correctly** (good skill)
- **Score "0"** if the task is **not done** or done **with mistakes**
- Calculate the total score

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STATION NO: 1 –THERAPEUTIC PROCEDURE - CARDIO PULMONARY RESUSCITATION

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

Documentation:

Signature of the Examinee

Signature of the Examiner

D. Prathima
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STATION NO: 2 –THERAPEUTIC PROCEDURE – EYE BANDAGE

Steps	Task	Max score	Registration number											
1.	Greets the patient	2												
2.	Introduces self	2												
3.	Explains the procedure and the reasons behind it.	2												
4.	Sanitizes hands	2												
5.	Eye Bandage Pads the affected eye.	2												
6.	Takes two circular turns around the head bandaging away from the injured eye	2												
7.	Carries the bandage, round the head until it reaches the eye on the affected side	2												
8.	Takes it obliquely to the back of the head, under the prominence on the back of the skull and from there;	2												
9.	Brings it upwards beneath the eye of the affected side.	2												
10.	Takes it further over the pad of the eye to a circular turn and continue over the head to the starting point	2												
11.	Repeats this turn 2 or3 times until the dressing is covered	2												
12.	Secures it just above the eye with a clip or a safety pin.	2												
13.	Removes and replace the eye bandage	2												
14.	Sanitizes hands	2												
15.	Documents the bandages done	2												
Total		30												

2 = Fully competent 1 = Partially competent 0 = Incompetent

Name & Signature of the examiner


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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 2 –THERAPEUTIC PROCEDURE – EYE BANDAGE

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENTS

For examiner	For simulated patient	For examinee
<ul style="list-style-type: none">❖ Writing pad with instructions to the examiner & evaluation proforma❖ Tray for evaluated response sheet❖ Pen❖ Pencil❖ Scale❖ Sharpener❖ Eraser❖ Chair & Table❖ Gong	<ul style="list-style-type: none">• Cot with screen• Top sheet• Writing pad with case scenario• Instructions for simulated patient(to be informed prior to the OSCE)	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Bed side locker• A clean tray lined with paper containing<ul style="list-style-type: none">❖ Bandage❖ Metal clip/safety pin❖ Bowl with gauze pad❖ K- Basin❖ Mask❖ Hand sanitizer• Response sheet• Chair & Table• Pen

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 2 –THERAPEUTIC PROCEDURE – EYE BANDAGE

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- greet the patient
- introduce self
- apply the eye bandage sequentially.
- document the procedure done

Observation: Observe if the participant is performing the following steps in the correct sequence when applying eye bandage for the patient.

Score:

Score the task based on the following level of perfection.

- Score "2" – Performs the step perfectly with a neat appearance
- Score "1" – Performs the step appropriately without a neat appearance
- Score "0" – Does not perform the step
- Calculate the total score

Dr. Reddy
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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 2 –THERAPEUTIC PROCEDURE – EYE BANDAGE

INFORMATION TO THE SIMULATED PATIENT

Your role: Patient, named Ms. Kumudha, aged 23 years.

Background information

Demographic data

- Name : Ms. Kumudha
- Age : 23 years
- Educational qualification : M.Sc - Physics
- Marital status : Un married
- Occupation : Executive
- Religion : Hindu
- Family income : Rs.40,000/ month

Present surgical history

You have undergone a surgery in the left eye.

Chief complaints

You have headache since morning. You also have pain in the eye. You do not have any other significant complaints.

Dy. B. C. Arany
Principal

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- write the colour coding for the products displayed
- specify the methods of waste disposal for the same.

Observation: Observe if the participant is performing the following task.

Score:

Score the task based on the following.

- **Score "1"** for each point **written correctly**
- **Score "0"** if the task is **not written correctly**
- Calculate the total score

DY. Principal
Principal

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

Steps	Task	Max score	Registration number																	
1.	Writes the colour coding for product no 1	1																		
2.	Specifies the method of waste disposal for product no 1	1																		
3.	Writes the colour coding for product no 2	1																		
4.	Specifies the method of waste disposal for product no 2	1																		
5.	Writes the colour coding for product no 3	1																		
6.	Specifies the method of waste disposal for product no 3	1																		
7.	Writes the colour coding for product no 4	1																		
8.	Specifies the method of waste disposal for product no 4	1																		
9.	Writes the colour coding for product no 5	1																		
10.	Specifies the method of waste disposal for product no 5	1																		
11.	Writes the colour coding for product no 6	1																		
12.	Specifies the method of waste disposal for product no 6	1																		
13.	Writes the colour coding for product no 7	1																		
14.	Specifies the method of waste disposal for product no 7	1																		
15.	Writes the colour coding for product no 8	1																		
16.	Specifies the method of waste disposal for product no 8	1																		
17.	Writes the colour coding for product no 9	1																		
18.	Specifies the method of waste disposal for product no 9	1																		
19.	Writes the colour coding for product no 10	1																		
20.	Specifies the method of waste disposal for product no 10	1																		
Total		20																		

Name & Signature of the examiner

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Principal

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STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

Steps	Task	Max score	Registration number																	
1.	Writes the colour coding for product no 1	1																		
2.	Specifies the method of waste disposal for product no 1	1																		
3.	Writes the colour coding for product no 2	1																		
4.	Specifies the method of waste disposal for product no 2	1																		
5.	Writes the colour coding for product no 3	1																		
6.	Specifies the method of waste disposal for product no 3	1																		
7.	Writes the colour coding for product no 4	1																		
8.	Specifies the method of waste disposal for product no 4	1																		
9.	Writes the colour coding for product no 5	1																		
10.	Specifies the method of waste disposal for product no 5	1																		
11.	Writes the colour coding for product no 6	1																		
12.	Specifies the method of waste disposal for product no 6	1																		
13.	Writes the colour coding for product no 7	1																		
14.	Specifies the method of waste disposal for product no 7	1																		
15.	Writes the colour coding for product no 8	1																		
16.	Specifies the method of waste disposal for product no 8	1																		
17.	Writes the colour coding for product no 9	1																		
18.	Specifies the method of waste disposal for product no 9	1																		
19.	Writes the colour coding for product no 10	1																		
20.	Specifies the method of waste disposal for product no 10	1																		
Total		20																		

Name & Signature of the examiner

D. B. Anuj
Principal

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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENT

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma and answer key• Pen• Pencil• Scale• Sharpener• Eraser• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Response sheet• Drop box• Chair & Table• Pen• Products – needle, blood bag, underpad, gloves, syringe cover, ampule, dressing materials, tissue paper, ryles tube, disposable face mask

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STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

ANSWER KEY

S. No	Name of the waste product	Colour code (method of segregation)	Methods of disposal
1.	Used Needles	White translucent	Autoclaving or dry heat sterilization
2.	Blood bag	Red	Incineration
3.	Used Underpad	Yellow	Incineration
4.	Gloves	Red	Autoclaving
5.	Syringe cover	Black	Incineration
6.	Used ampule	White translucent	Autoclaving or disinfection
7.	Dressing material	Yellow	Incineration
8.	Tissue Paper	Black	Incineration
9.	Ryles tube	Red	Autoclaving or microwaving followed by shredding or mutilation
10.	Disposable face Mask	Black	Incineration

Dr. B. Anuj
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STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

INSTRUCTION TO THE EXAMINEE

You have 5 minutes to write the color coding for the displayed products as per the biomedical waste management system and specify the appropriate methods of waste disposal for each.

Drop the response sheet in the drop box kept on the table after documentation.

Dy. B. Anny
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STATION NO: 4 – DECISION MAKING – BIO MEDICAL WASTE MANAGEMENT

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

S. No	Name of the product	Colour code (method of segregation)	Methods of disposal
1.	Used Needles		
2.	Blood bag		
3.	Used Underpad		
4.	Gloves		
5.	Syringe cover		
6.	Used ampule		
7.	Dressing material		
8.	Tissue Paper		
9.	Ryles tube		
10.	Disposable face Mask		

Signature of the Examinee

Signature of the Examiner

Dr. B. Anny
Principal

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OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- identify the sites for checking the pulse
- mark the sites correctly on the image given in the paper

Observation: Observe if the participant is identifying and marking the various sites for checking the pulse

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if the equipment is not identified correctly or if the purpose is not specified correctly.
- Calculate the total score.

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NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- identify the sites for checking the pulse
- mark the sites correctly on the image given in the paper

Observation: Observe if the participant is identifying and marking the various sites for checking the pulse

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if the equipment is not identified correctly or if the purpose is not specified correctly.
- Calculate the total score.

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STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

Steps	Task	Max score	Registration number												
1.	Labels the site 1 for checking pulse	1													
2.	Labels the site 2 for checking pulse	1													
3.	Labels the site 3 for checking pulse	1													
4.	Labels the site 4 for checking pulse	1													
5.	Labels the site 5 for checking pulse	1													
6.	Labels the site 6 for checking pulse	1													
7.	Labels the site 7 for checking pulse	1													
8.	Labels the site 8 for checking pulse	1													
9.	Labels the site 9 for checking pulse	1													
10	Specifies any two pulse sites that can be used during emergency for an adult	1													
Total		10													

Name & Signature of the examiner

D. Babu
Principal

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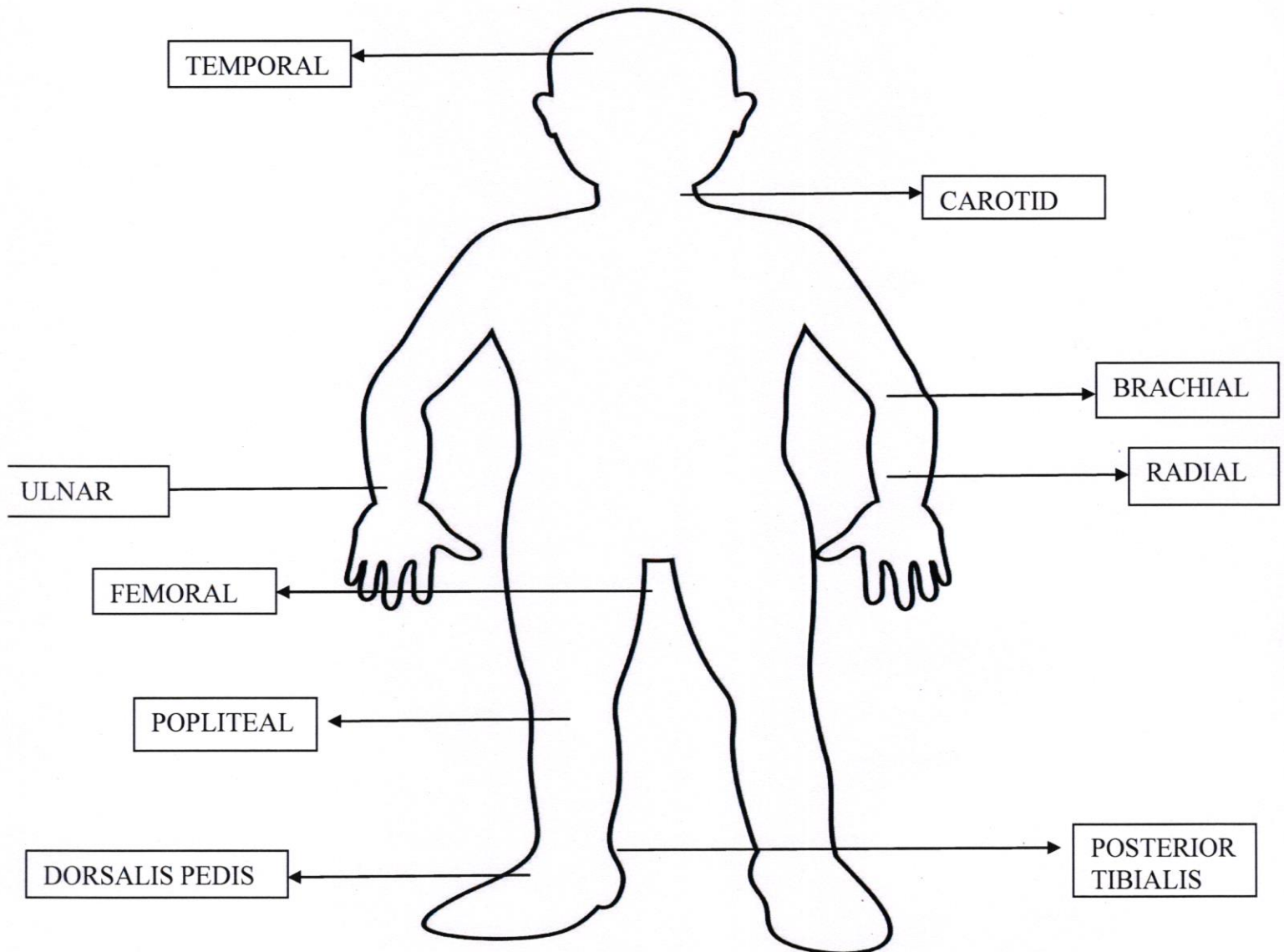
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STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

ANSWER KEY



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STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENT

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma & answer key• Pen• Pencil• Scale• Sharpener• Eraser• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Printed image• Response sheet• Chair & Table• Pen• Drop box

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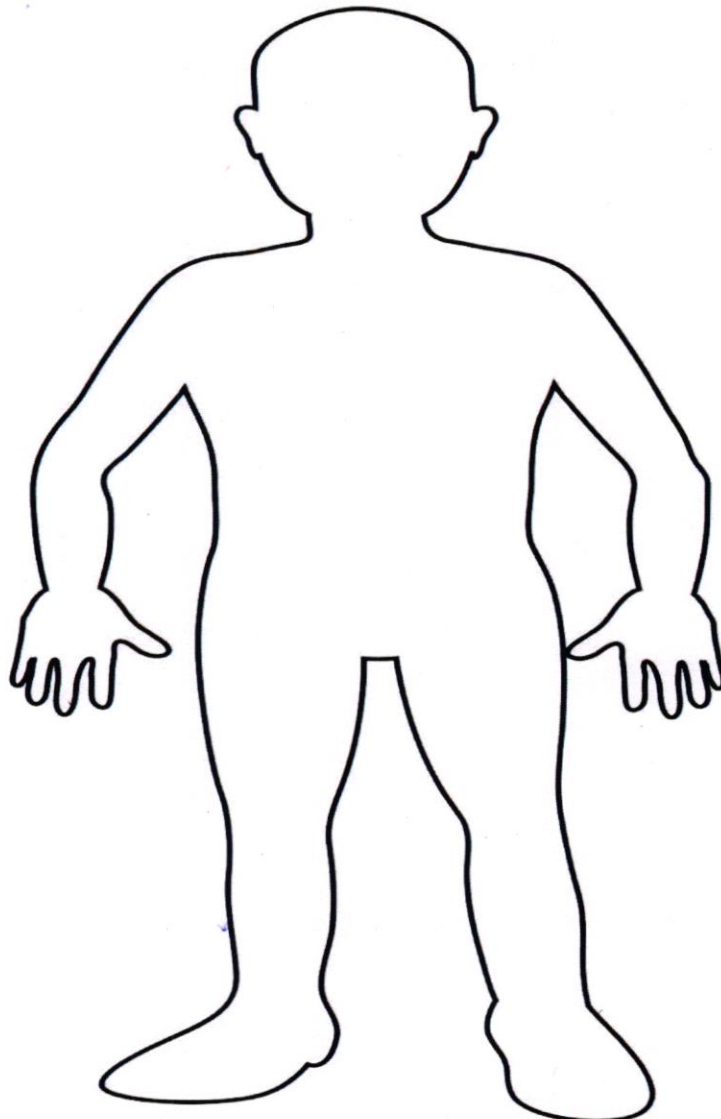


STATION NO: 5 – VIRTUAL SIGN IDENTIFICATION- IDENTIFICATION OF PULSE SITE

INSTRUCTION TO EXAMINEE

You have 5 minutes to complete this station. Mark the names of the 9 pulse sites for this image on the image given in the response sheet.

Drop the response sheet in the drop box kept on the table after documentation.



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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- identify the instruments displayed
- write any one purpose for each of the instrument

Observation: Observe if the participant is performing the following task.

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if the equipment is not identified correctly or if the purpose is not specified correctly.
- Calculate the total score.

Dr. B. Anuj
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STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

Steps	Task	Max score	Registration number											
1.	Identifies the 1 st instrument	1												
2.	Lists the purpose of instrument no 1	1												
3.	Identifies the instrument no 2	1												
4.	Lists the purpose of instrument no 2	1												
5.	Identifies the instrument no 3	1												
6.	Lists the purpose of instrument no 3	1												
7.	Identifies the instrument no 4	1												
8.	Lists the purpose of instrument no 4	1												
9.	Identifies the instrument no 5	1												
10.	Lists the purpose of instrument no 5	1												
Total		10												

Name & Signature of the examiner

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STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

ARTIFACT / EQUIPMENTS / PRELIMINARY REQUIREMENT

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma and answer key• Pen• Pencil• Scale• Eraser• Sharpener• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Response sheet• Drop box• Table & Chair• Pen• Equipments – Stethoscope, tuning fork, tongue depressor, proctoscope, pen torch

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STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

ANSWER KEY

S. No	Name of the equipment	Purpose
1.	Stethoscope	To listen to the sounds made by the heart, lungs or intestines
2.	Tuning fork	To assess patient's hearing ability
3.	Tongue depressor	For examining the oral cavity and to depress the tongue for procedures such as intubation, oral care, insertion of oral airway
4.	Proctoscope	To examine the rectum
5.	Pen torch	For clinical examination

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STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

INSTRUCTION TO THE EXAMINEE

You have 5 minutes to identify the name of the equipments that are displayed and write any 2 purposes for each of them in the response sheet provided.

Do not move the equipments.

Drop the response sheet in the drop box kept on the table after documentation.

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STATION NO: 6 – VIRTUAL SIGN IDENTIFICATION – IDENTIFICATION OF EQUIPMENT

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

Documentation:

S. No	Name of the equipment	Purpose
1.		
2.		
3.		
4.		
5.		

Signature of the Examinee

Signature of the Examiner

Dr. B. Anj
Principal

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 7 –PROBLEM SOLVING – DRUG CALCULATION

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- calculate the amount that has to be loaded in the syringe
- specify the syringe that has to be taken for loading
- lists any two commonest veins that can be used for intravenous administration

Observation: Observe if the participant is performing the following task.

Score:

Score the task based on the following

- **Score "1"** for each point calculated/ specified / drawn **correctly**
- Score **"0"** for the steps **incorrectly** or **not performed** as recommended
- Calculate the score.

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STATION NO: 7 –PROBLEM SOLVING – DRUG CALCULATION

Steps	Task	Max score	Registration number											
1.	1a. Writes the formula for the order 1	1												
	1b. Calculates the amount of medication that has to be administered in mL	1												
	1c. Specifies the syringe for administration.	1												
2.	Lists any two veins that can be used for intravenous administration													
	a.	1												
	b.	1												
Total		5												

Name & Signature of the examiner

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STATION NO: 7 –PROBLEM SOLVING – DRUG CALCULATION

ARTIFACTS / EQUIPMENTS / PRELIMINARY REQUIREMENT

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma and answer key• Pen• Pencil• Scale• Eraser• Sharpener• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee & doctor's order• Response sheet• Drop box• Table & Chair• Pen

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STATION NO: 7 –PROBLEM SOLVING – DRUG CALCULATION

ANSWER KEY

1. Dr's order: Inj. Ceftriaxone – 3.0 gm od

Available dose = 2 vials of 2gm each

Each vial can be mixed with 5mL of distilled water.

So, 2g/5mL; 4g/10mL

Formula= $\frac{\text{what we want}}{\text{what we have}} \times \text{Available amount (mL)}$

$$3/4 * 10 = 30/4 = 7.5 \text{ mL}$$

2. Any two commonest veins for IV administration

- Cephalic
- Basilic
- Median cubital

Dy. Princy
Principal

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 7 –PROBLEM SOLVING – DRUG CALCULATION

INSTRUCTION TO THE EXAMINEE

The doctor's order for a drug administration is as follows. Calculate the following drug dosage.

1. Order: Injection Ceftriaxone 3.0 gm od IV. You have 2 vials in your hand. Each vial has 2gm. Five mL of distilled water can be used to dilute each vial.
 - Calculate the amount that has to be loaded in the syringe for order 1
 - Specify the syringe (mL)that has to be taken for loading
 - List any two commonest veins that can be used for intravenous administration

Drop the response sheet in the drop box kept on the table after documentation.

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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

Steps	Task	Max score	Registration number							
1.	Identifies the abnormality in urine sample 1	1								
2.	Identifies the abnormality in urine sample 2	1								
3.	Identifies the abnormality in urine sample 3	1								
4.	Identifies the abnormality in urine sample 4	1								
5.	Identifies the abnormality in urine sample 5	1								
6.	Lists in numerical value the amount of abnormality seen in sample 1	1								
7.	Lists in numerical value the amount of abnormality seen in sample 2	1								
8.	Lists in numerical value the amount of abnormality seen in sample 3	1								
9.	Lists in numerical value the amount of abnormality seen in sample 4	1								
10.	Lists in numerical value the amount of abnormality seen in sample 5	1								
Total		10								

Name & Signature of the examiner

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- identify the abnormality in the urine sample
- list the amount of variability in each sample.

Observation: Observe if the participant is performing the following task.

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if the equipment is not identified correctly or if the purpose is not specified correctly.
- Calculate the total score.

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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

Steps	Task	Max score	Registration number											
1.	Identifies the abnormality in urine sample 1	1												
2.	Identifies the abnormality in urine sample 2	1												
3.	Identifies the abnormality in urine sample 3	1												
4.	Identifies the abnormality in urine sample 4	1												
5.	Identifies the abnormality in urine sample 5	1												
6.	Lists in numerical value the amount of abnormality seen in sample 1	1												
7.	Lists in numerical value the amount of abnormality seen in sample 2	1												
8.	Lists in numerical value the amount of abnormality seen in sample 3	1												
9.	Lists in numerical value the amount of abnormality seen in sample 4	1												
10.	Lists in numerical value the amount of abnormality seen in sample 5	1												
Total		10												

Name & Signature of the examiner


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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

ARTIFACTS / EQUIPMENTS / PRELIMINARY REQUIREMENTS

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma and answer key• Pen• Pencil• Scale• Eraser• Sharpener• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Response sheet• Drop box• Table & Chair• Pen• Test tubes with five urine samples – Positive for sugar with blue, green, yellow, orange and one with turbid urine

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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

ANSWER KEY

S.No	Colour	Interpretation	Amount
1.	Blue	No sugar	No sugar
2.	Green	+1	250 – 500 mg/100 mL
3.	Yellow	+2	500 – 1000 mg/100 mL
4.	Orange	+3	1000 – 1500 mg/100 mL
5.	White turbid/cloudy	Presence of albumin ++	100mg/dL

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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

INSTRUCTION TO THE EXAMINEE

The urine sample is kept in five test tubes. See the colour of the urine sample and identify the abnormality. After identification, list the amount of variability in each test tube with the correct unit. You have 5 minutes to complete this station.

Drop the response sheet in the drop box kept on the table after documentation.

Dr. Babu
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STATION NO: 8 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – INTERPRETATION OF URINE SAMPLE

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

Documentation:

S.No	Colour	Interpretation	Amount
1.			
2.			
3.			
4.			
5.			

Signature of the Examinee

Signature of the Examiner

Dr. R. Anji
Principal

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STATION NO: 8 – DATA INTERPRETATION– INTERPRETATION OF LAB VALUE

ANSWER KEY

S.No	Name of the investigation	Patient's value	Normal value	Remarks
1.	ESR	32 mm/hr	<20mm/hour	Suggestive of infection
2.	Haemoglobin (female)	10.5 gm/dL	12-14 mg/dL	Anemia
3.	S. Urea	23 mg/dL	8 -40 mg/dL	Normal
4.	S. Creatinine	1.2 mg/dL	0.8 – 1.4 mg/dL	Normal
5.	Sodium	138 mEq/L	135 – 145 mEq/L	Normal
6.	Potassium	4.2 mEq/L	3.5 – 5.1 mEq/L	Normal
7.	Total bilirubin	2.8 mg/dL	0.2 – 1.4 mg/dL	Suggestive of liver impairment
8.	Total cholesterol	268 mg/dL	<200 mg/dL	Suggestive of liver impairment
9.	Total protein	6.8 g/dL	6-8 gm/dL	Normal
10.	Serum albumin	2.8 g/dL	3.5 – 5 gm/dL	Hypoalbuminemia

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- interpret the vital parameter based on the value
- define each of it.

Observation: Observe if the participant is identifying the vital parameter and is able to define it correctly.

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if it is not identified or defined correctly.
- Calculate the total score.

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STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

Step Num	Task	Max Score	Registration Number											
1.	Interprets the 1 st vital parameter	1												
2.	Defines the 1 st vital parameter	1												
3.	Interprets the 2 nd vital parameter	1												
4.	Defines the 2 nd vital parameter	1												
5.	Interprets the 3 rd vital parameter	1												
6.	Defines the 3 rd vital parameter	1												
7.	Interprets the 4 th vital parameter	1												
8.	Defines the 4 th vital parameter	1												
9.	Interprets the 5 th vital parameter	1												
10.	Defines the 5 th vital parameter	1												
Total		10												

Name & Signature of the examiner

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STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

ARTIFACT / EQUIPMENTS/ PRELIMINARY REQUIREMENTS

For examiner	For examinee
<ul style="list-style-type: none">• Writing pad with instructions to the examiner, evaluation proforma and answer key• Pen• Pencil• Scale• Eraser• Sharpener• Chair & Table• Gong	<ul style="list-style-type: none">• Writing pad with instructions to examinee• Printed values/images• Response sheet• Drop box• Table & Chair• Pen

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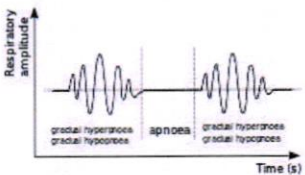
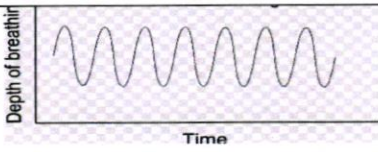
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STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

ANSWER KEY

S. No	Vital Parameters	Values	Interpretation	Definition
1	Temperature	101 ⁰ F	Hyperthermia	Increased body temperature
2	Pulse	50 beats/minute	Bradycardia	Pulse rate < than 60 beats/minute
3	BP	70/40 mm Hg	Hypotension	Decreased BP below the normal value – systolic - <90 mmHg
4	Respiration		Cheyne stoke respiration	Irregular rate & depth of respiration characterized by alternating period of apnea & hyperventilation
5	Respiration		Kussmaul's respiration	Abnormally deep regular respiration with increased rate

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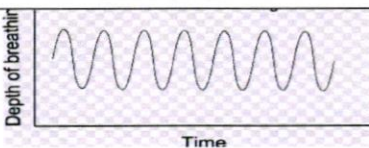


STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

INSTRUCTION TO THE EXAMINEE

You have 5 minutes to complete this station. Look at the vital parameters below. Interpret it and define each of the abnormality in the response sheet.

Drop the response sheet in the drop box kept on the table after documentation.

S. Num	Vital Parameters	Values	Interpretation	Definition
1	Temperature	101 ⁰ F		
2	Pulse	50 beats/minute		
3	BP	70/40 mm Hg		
4	Respiration			
5	Respiration			

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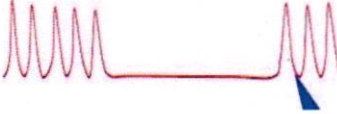
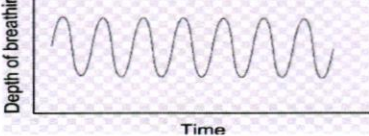


STATION NO: 9 –DATA INTERPRETATION – NAME & DEFINE THE VITAL PARAMETERS

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

Documentation:

S. Num	Vital Parameters	Values	Interpretation	Definition
1	Temperature	101 ⁰ F		
2	Pulse	50 beats/minute		
3	BP	70/40 mm Hg		
4	Respiration			
5	Respiration			

Signature of the Examinee

Signature of the Examiner

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 9 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – IDENTIFICATION OF BREATH SOUNDS

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- identify the abnormal respiratory sound correctly.
- define the respiratory sound heard
- list the disease conditions in which these sounds can be heard.

Observation: Observe if the participant is performing the following task.

Score

Score the task based on the following

- Score "1" for each point identified and written correctly
- Score "0" if the equipment is not identified correctly or if the purpose is not specified correctly.
- Calculate the total score.

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STATION NO: 9 – IDENTIFICATION OF ABNORMAL TEST FINDINGS – IDENTIFICATION OF BREATH SOUNDS

Steps	Task	Max score	Registration number											
1.	Identifies the respiratory sound in the right lung appropriately	1												
2.	Defines the respiratory sound heard in the right lung	1												
3.	Lists down any three possible disease conditions for the respiratory sound heard in the right lung.													
	a.	1												
	b.	1												
	c.	1												
4.	Identifies the respiratory sound in the left lung appropriately	1												
5.	Defines the respiratory sound heard in the left lung	1												
6.	Lists down any three possible disease conditions for the respiratory sound heard in the left lung.													
	a.	1												
	b.	1												
	c.	1												
Total		10												

Name & Signature of the examiner

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STATION NO: 10 –DECISION MAKING – IDENTIFICATION OF VENTURI MASK

Steps	Task	Max score	Registration number																	
1.	Writes the F_{iO_2} for the 1 st venturi	1																		
2.	Mentions the litres of oxygen for the 1 st venturi	1																		
3.	Writes the F_{iO_2} for the 2 nd venturi	1																		
4.	Mentions the litres of oxygen for the 2 nd venturi	1																		
5.	Writes the F_{iO_2} for the 3 rd venturi	1																		
6.	Mentions the litres of oxygen for the 3 rd venturi	1																		
7.	Writes the F_{iO_2} for the 4 th venturi	1																		
8.	Mentions the litres of oxygen for the 4 th venturi	1																		
9.	Writes the F_{iO_2} for the 5 th venturi	1																		
10.	Mentions the litres of oxygen for the 5 th venturi	1																		
Total		10																		

Name & Signature of the examiner

Dr. R. Anjali
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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 10 –DECISION MAKING – IDENTIFICATION OF VENTURI MASK

INSTRUCTION TO THE EXAMINER

Objectives

This station is designed to test the candidate's ability to

- write the correct FiO_2 for all the five venturi
- mention the litres of oxygen that can be administered using each color.

Observation:

Observe if the participant is identifying and documenting the given task.

Score

Score the task based on the following

- **Score "1"** for each point identified / written **correctly** or mark
- **Score "0"** if the task is **not identified and written** as recommended
- Calculate the total score

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 10 –DECISION MAKING – IDENTIFICATION OF VENTURI MASK

INSTRUCTIONS TO THE EXAMINEE

Identify the color of the venturi kept; write the color, the percentage of FiO_2 and the litres of oxygen that can be administered using each color of venturi.

You have 5 minutes to complete this station

Drop the response sheet in the drop box kept on the table after documentation.

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B.Sc NURSING DEGREE PROGRAMME – I YEAR

NURSING FOUNDATIONS

OBJECTIVE STRUCTURED PRACTICAL/CLINICAL EXAMINATION (OSPE/OSCE)

STATION NO: 10 –DECISION MAKING – IDENTIFICATION OF VENTURI MASK

STUDENT RESPONSE SHEET

Registration Number: _____ Date: _____

Documentation:

S. No	Colour	Fio ₂	Litres of oxygen/minute
1.			
2.			
3.			
4.			
5.			

Signature of the Examinee

Signature of the Examiner

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