		1		tems		
N. BOAR				gniti		
Neonatal/Pediatric S	pecialty Examination			Level		
Detailed Co	entent Outline are linked to open cells.	Ethics	Recall	Application	Analysis	Total
I. CRITICAL CARE			6	35	34	75
A. Evaluate Pertinent Information			0	6	6	12
Maternal history						
Neonatal assessment e.g.,						
Apgar • fetal	ung maturity indices					
Patient history						
Physical examination						
5. Laboratory e.g.,						
,	cultures					
CBC						
6. Imaging e.g.,						
1	 fluoroscopy 					
cardiac catheterization a						
angiography	• CT					
echocardiography7. Other diagnostic results e.g.						
	 oxygen challenge test 		2	6	4	12
B. Assess and Manage Airways 1. Establishment of an airway e	~			O	4	12
	.9.,					
bag-mask ventilationoral/nasal airway placem	ont					
	ent.					
Difficult airway recognition Performing or assisting standard	lard intubation e.g.					
equipment selection	 CO₂ verification 					
Performing or assisting adva						
techniques e.g.,	neca intabation					
	ecialty laryngoscopic					
	sualization devices					
5. Artificial airways						
a. laryngeal mask airway						
b. cuff management						
c. tracheostomy tubes						
d. airway clearance techni	ques e.g.,					
 secretion removal 	-					
C. Administer and Monitor Specia	Ity Gases		0	2	2	4
Nitric oxide	-					
2. Helium-oxygen						

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Neonatal/Pediatric Specialty Examination Detailed Content Outline			Level		
• Detailed Content Outline	ш	Re	ppl	Ana	Ţ
Multiple-choice items are linked to open cells.	Ethics	Recall	Application	Analysis	Total
	0,		on	5	
3. Other e.g., isoflurane subambient					
Isonurane Subamblent carbon dioxide					
D. Manage Ventilation and Oxygenation		0	10	15	25
Selection of initial settings					
Conventional modes					
3. Alternative modes e.g.,					
 volume-targeted high frequency 					
 airway pressure neurally adjusted ventilatory assist 					
release ventilation ventilatory assist 4. Noninvasive e.g.,					
CPAP					
5. Adjunct techniques					
a. lung recruitment maneuvers					
b. prone patient positioning					
c. extracorporeal gas exchange e.g.,					
• ECMO • CO ₂ removal					
6. Monitoring					
 a. measures of lung disease severity e.g., OI PaO₂ / F_IO₂ ratio 					
b. airway pressures and volumes e.g.,					
mean airway pressure					
c. gas exchange e.g.,					
• S _P O ₂ • ETCO ₂					
d. ventilator waveforms					
e. ventilator-patient interaction e.g.,					
• synchrony					
f. pulmonary mechanics e.g.,					
 compliance V_D / V_T resistance MIP 					
g. effects of mechanical ventilation on cardiac					
function					
7. Strategies					
a. liberation from mechanical ventilation e.g.,					
protocols					
b. prevention of ventilator induced lung injury c. lung-protective ventilation e.g.,					
permissive hypercapnea					
8. Optimizing patient-ventilator interaction					
	BACCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO				

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Detailed Content Outline		 	Application	₽	_
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Multiple-choice items are linked to open cells.	Ethics	all	atio	Analysis	<u>a</u>
				•	_
E. Prevent Ventilator Associated Pneumonia		1	1	1	3
1. Oral care					
Bed position Minimizing intubation time e.g					
9,					
determining extubation readinessnoninvasive positive pressure ventilation					
4. Ventilator circuit care e.g.,					
closed suction heated wire					
F. Select, Assemble, and Troubleshoot Equipment		2	4	2	8
1. Oxygen administration devices e.g.,		-	-	† -	
 high-flow nasal cannula oxygen hood 					
2. Aerosol delivery devices e.g.,					
continuous medication nebulizers					
in-line administration					
Nitric oxide delivery devices					
Transcutaneous monitoring systems					
5. Mechanical ventilators					
G. Assist or Perform Procedures		0	3	2	5
Inter- or Intra-hospital transport					
Intravascular catheter insertion e.g.,					
through an umbilical or peripheral site	-				
Bronchoscopy and associated procedures e.g.,					
lavagebiopsies					
4. Intubation					
5. Extubation					
H. Deliver Pharmacologic Agents		0	2	1	3
1. Aerosolized agents e.g.,					
antimicrobials bronchodilators					
mucolytics anti-inflammatories					
 vasodilators 					
2. Airway instillations e.g.,					
surfactant replacement therapy lidocaine					
I. Assist or Perform Resuscitation		1	1	1	3
Selection of appropriate equipment e.g.,					
T-piece resuscitator					
flow-inflating resuscitation bag					
2. Following the appropriate protocol e.g.,					
• NRP • PALS					

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Neonatal/Pediatric Specialty Examination Detailed Content Outline					
Multiple-choice items are linked to open cells.	Ethics	Recall	Application	Analysis	Total
II. GENERAL CARE		3	26	16	45
A. Assess Patient Status and Changes in Status		0	7	5	12
Specific airway challenges e.g.,					
acute upper airway obstructioncongenital anomalies					
2. Chest imaging e.g.,					
radiograph CT					
3. Indices of respiratory physiology and mechanics e.g.,					
oxygenationsleep study resultswork of breathing					
4. Neurologic e.g.,					
 respiratory function level of consciousness 					
apnea of prematurity					
5. Cardiovascular e.g.,					
physical assessment pulmonary hypertension					
hemodynamics congenital heart disease Congenital heart disease					
6. Recognition of respiratory failure mechanisms a. primary pulmonary and airway diseases e.g.,					
atelectasis asthma					
pneumonia croup					
b. other e.g.,					
neuromuscular flail chest					
respiratory control					
7. Renal, metabolic, endocrine, and nutrition e.g.,					
 fluid status electrolytes acid-base balance inborn errors of metabolism 					
nutrition/feeding					
8. Gastrointestinal e.g.,					
 congenital anomalies feeding tube placement 					
abdominal distension necrotizing enterocolitis					
9. Musculoskeletal e.g.,					
 spinal cord injury myopathy scoliosis myelomeningocele 					
B. Select, Assemble, and Troubleshoot Equipment		1	5	4	10
Airway clearance devices e.g.,					
In-exsufflator					
Oxygen administration devices e.g.,				_	
 high-flow nasal cannula oxygen hood 					

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	3.	Aerosol delivery devices					
	4.	Mechanical ventilators e.g.,					
		• home					
C.		ticipate Care Based on Laboratory Results and tritional Status		0	4	2	6
	1.	Hematologic e.g.,					
		 CBC Hgb electrophoresis 					
	2.	Chemistry e.g.,					
		electrolytesglucose					
		albumin					
	3.	Microbiology e.g.,					
		 RSV swab culture 					
		Gram stain					
	4.						
	5.	Complications of feedings e.g.,					
		intolerancemalplacement of feeding tubeaspiration					
D.	Δn	ticipate Care Based on Imaging and Reports of					
J.		aging		0	1	1	2
		Radiographs					
	2.	<u> </u>					
		CTUltrasound					
		• MRI					
E.	An	ticipate Effects of Pharmacologic Agents		2	3	2	7
	1.	Sedatives, hypnotics, and analgesia					
	2.	Neuromuscular blocking agents e.g.,					
		succinylcholine cisatracurium					
	3.	Reversal agents e.g.,					
		naloxoneneostigmine					
		flumazenil					
	4.	Vasoactive and inotropic agents					
	5.	Diuretics					
	6.	Aerosolized agents e.g.,					
		bronchodilators anti-inflammatories anti-inflammatories anti-inflammatories anti-inflammatories anti-inflammatories					
	7	anti-inflammatories mucolytics Drug interactions					
	7. 8.	Drug interactions Influence of co-morbid conditions e.g.,					
	Ο.	 renal failure hepatic failure 					
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Neonatal/Pediatric Specialty Examination Detailed Content Outline Multiple-choice items are linked to open cells.	Ethics	Recall	Application	Analysis	Total
F. Manage End-of-Life Care		0	1	1	2
 Differentiation of the potential need for end-of-life care e.g., palliative hospice 					
Withdrawal of life support					
Care of organ donors					
G. Prepare for Disasters		0	2	0	2
Procedures for patient movement and protection			_		_
Triage procedures					
Equipment and supply management					
H. Interact with Members of an Interdisciplinary Team		0	1	1	2
Suggested modifications to the care plan based on the respiratory assessment					
Responses to proposed care plan modifications from other team members					
I. Evaluate Patient and Family Understanding of		0	2	0	2
Education		U		U	
 Discharge and home e.g., 					
tracheostomy care CPR					
monitoring					
Equipment and procedure instruction					
Medication administration					
Totals	3	9	61	50	120

Secondary Test Specifications

Item content also will be classified by the condition or disorder described for each patient

Item content also will be classified by the condition or disorde	Item Counts A		xamination
	Target		Range for est Form
Conditions or Disorders	120	Minimum	Maximum
01-GENERAL			
No specific condition or disorder	30	24	36
02-ASTHMA	10	8	12
03-PREMATURITY (prematurity acute phase e.g.,			
surfactant deficiency, apnea)	10	8	12
04-INFECT DISEASE (infectious disease e.g.,			
pneumonia, croup)	10	8	12
05-NEO PULMONARY (neonatal pulmonary e.g.,			
meconium aspiration, pneumonia, PPHN)	10	8	12
06-CHRONIC LUNG (chronic lung disease of			
prematurity)	7	6	8
07-BRONCHIOLITIS	7	6	8
08-CON HRT DISEASE (congenital heart disease)	4	3	5
09-CON DEFECTS (congenital defects that require			
surgical correction)	4	3	5
10-NEUROMUSCULAR (e.g., spinal muscle atrophy,			
muscular dystrophy)	4	3	5
11-SHOCK	4	3	5
12-TRAUMA	4	3	5
13-CYSTIC FIBROSIS	4	3	5
14-PED AIRWAY (pediatric airway e.g.,			
tracheomalacia, vocal cord paralysis, vascular ring)	4	3	5
15-NEUROLOGIC (neurologic e.g., seizures, brain			
tumors, hydrocephalus)	3	2	4
16-IMMUNOCOMPR (immunocompromised)	2	2	2
17-HEART FAILURE	2	2	2
18-INHALATION (inhalation injuries)	1	0	1
Total	120		

Neonatal/Pediatric Specialist Admission Requirements

Applicants shall be a Registered Respiratory Therapist (RRT).
 OR

2. Applicants shall be a Certified Respiratory Therapist (CRT) for at least one year prior to applying for the Neonatal/Pediatric Specialty Examination.

Neonatal/Pediatric Specialist Examination Fees					
New Applicant Repeat Applicant					
\$250 \$220					