Name	Class	Data
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Chapter 01 Embryologic Development of t	the Cardiopulmonary System	
 Chemoreceptors play a role in the regulation at a cardiac contractility b. hypertension c. ventilation d. blood vessel diameter 	on of	
ANSWER: c		
2. At what point in development does blood la. immediately after deliveryb. immediately preceding deliveryc. around the third weekd. two days after conception	begin to flow?	
ANSWER: c		
3. Pressures in the right, or venous system, of a. higherb. incompletec. lowerd. the same	compared to those in the left, or arte	rial system of the fetus are
ANSWER: a		
4. The central and peripheral nervous systema. endodermb. philodermc. mesodermd. ectoderm	n arise from which germ layer?	
ANSWER: d		
5. Normally, fetal lung fluid moves steadily aa. 15 L/hourb. 1 ml/hourc. 15 ml/hourd. 100 ml/hour	at what rate?	

ANSWER: c

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phosphatidylglycerol (PG) to a. ethanol b. sphingomyelin c. lecithin d. serum	by withdrawing a sample of amniotic flui	d and comparing the level of
ANSWER: b		
7. Which of the following carries the from a umbilical veinb. umbilical arteryc. hepatic portal veind. aorta	esh blood from the placenta through the u	umbilical cord and into the fetus?
ANSWER: a		
8. Which of the following prevents the la. arteriesb. Wharton's jellyc. veinsd. amnion	pending or pinching of the umbilical cord	that may stop blood flow to the infant?
ANSWER: b		
9. Baroreceptors are stimulated bya. pHb. ventilationc. oxygend. stretch		
ANSWER: d		
10. Which condition is characterized by toa. respiratory distress syndrome (RDb. pneumoniac. sudden acute respiratory syndromd. asthma	OS)	status of a newborn following delivery?
ANSWER: a		

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- 11. The change from fetal circulation to adult circulation is called
 - a. pulmonary pressure
 - b. transition
 - c. coordination
 - d. resuscitation

ANSWER: b

- 12. Polyhydramnios indicates a problem with the
 - a. umbilical cord
 - b. urinating mechanism of the fetus
 - c. swallowing mechanism of the fetus
 - d. cardiovascular function of the fetus

ANSWER: c

- 13. The thicker, outer layer of the embryonic disc, or blastoderm, is the
 - a. embryo
 - b. ectoderm
 - c. endoderm
 - d. mesoderm

ANSWER: b

- 14. Why must the lung fluid be completely evacuated from the lungs at birth?
 - a. To allow for unhindered ventilation in the neonate
 - b. To collapse the airways during birth
 - c. To reduce the size of the infant passing through the birth canal
 - d. To allow the infant to nurse

ANSWER: a

- 15. Alveoli continue to
 - a. increase in number for 2 years after birth
 - b. increase in number for 8 years after birth
 - c. maintain their count throughout childhood as the lungs are completely developed at birth
 - d. increase in number for the entire lifetime

ANSWER: b

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16. By the fifth week of developmenta. pulmonary arteryb. sinus venosusc. septum primumd. truncus arteriosus	ent, the single atrium is divided into two separat	te chambers by the		
ANSWED: 0				

- *ANSWER:* c
- 17. At which of the following stages does the ovum enter the uterus?
 - a. morula
 - b. blastomeres
 - c. blastocyst
 - d. trophoblast
 - ANSWER: a
- 18. The foramen ovale is located between the right atrium and
 - a. lungs
 - b. right ventricle
 - c. left ventricle
 - d. left atrium
 - ANSWER: d
- 19. Secondary crests will eventually form
 - a. pulmonary surfactant
 - b. goblet cells
 - c. serous cells
 - d. true alveoli
 - ANSWER: d
- 20. At the end of 40 weeks gestation, how much fluid is present in the amnion?
 - a. 10 milliliters
 - b. 10 liters
 - c. 1 milliliter
 - d. 1 liter
 - ANSWER: d

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21. At which stage of fetal lung development does the grant a. pseudoglandular b. canalicular c. saccular d. embryonal	reatest amount of vascularization occur?			
ANSWER: b				
22. Which substance works to lower surface tension on a. bloodb. mucusc. serumd. surfactant	the alveolar wall?			
ANSWER: d				
23. Exposure to which of the following can lead to sever a. food coloringb. radiationc. vitaminsd. sugar	e congenital malformations?			
ANSWER: b				
24. The first shunt encountered after blood enters the fet a. ductus venosusb. foramen ovalec. inferior vena cavad. superior vena cava	al abdominal cavity is the			
ANSWER: a				
 25. As the radius of a bubble, or alveolus, decreases, the a. fluctuates unpredictably b. stays the same c. decreases d. increases ANSWER: d	surface tension			