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Leifer: Introduction to Maternity & Pediatric Nursing, 6th Edition

Chapter 03: Fetal Development

Test Bank

MULTIPLE CHOICE

- 1. The total number of chromosomes contained in a mature sperm or ovum is:
- a. 22.
- b. 23.
- c. 44.
- d. 46.

ANS: B

Gametes (sex chromosomes) contain 23 chromosomes.

DIF:	Cognitive Level: Knowledge	REF:	p. 32	OBJ: 2
TOP:	Gametogenesis	KEY:	Nursing I	Process Step: N/A
MSC:	NCLEX: Health Promotion and Ma	intenan	ce: Growth	and Development

- 2. A pregnant woman states, "My husband hopes I will give him a boy because we have three girls." The nurse explains that:
- a. the sex chromosome of the fertilized ovum determines the gender of the child.
- b. when the sperm and ovum are united, there is a 75% chance the child will be a girl.
- c. when the pH of the female reproductive tract is acidic, the child will be a girl.
- d. if a sperm carrying a Y chromosome fertilizes an ovum, then a boy is produced.

ANS: D

When a Y-bearing sperm fertilizes an ovum, a male child is produced.

DIF:Cognitive Level: ComprehensionREF:p. 33OBJ:3TOP:Sex DeterminationKEY:Nursing Process Step:ImplementationMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

- 3. Using a diagram, the nurse points out the most common site for fertilization, which is the:
- a. lower segment of the uterus.
- b. outer third of the fallopian tube near the ovary.
- c. upper portion of the uterus.
- d. area of the fallopian tube farthest from the ovary.

ANS: B

Fertilization takes place in the outer third of the fallopian tube, which is closest to the ovary.

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DIF: Cognitive Level: Knowledge REF: pp. 33-34 OBJ: 3

TOP: Fertilization KEY: Nursing Process Step: Implementation

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

4. The embryo is termed a fetus at which stage of prenatal development?

- a. 2 weeks
- b. 4 weeks
- c. 9 weeks
- d. 16 weeks

ANS: C

The fetus (third stage of prenatal development) begins at the ninth week and continues until the 40th week of gestation or until birth.

DIF: Cognitive Level: Knowledge REF: p. 37 OBJ: 4 TOP: Prenatal Developmental Milestones KEY: Nursing Process Step: Implementation

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 5. The nurse explains to a pregnant patient that blood is circulating through the placenta to the fetus by way of:
- a. one umbilical vein.
- b. two umbilical veins.
- c. one umbilical artery.
- d. two umbilical arteries.

ANS: A

The umbilical vein transports richly oxygenated blood from the placenta to the fetus.

DIF:	Cognitive Level: Knowledge	REF:	p. 39	OBJ:	7
TOP:	Fetal Circulation	KEY:	Nursing Proc	ess Step	:
Impler	nentation				
MSC: NCLEX: Health Promotion and Maintenance: Growth and Development					

- 6. The nurse explains that the usual location for implantation of the zygote is the:
- a. upper section of the posterior uterine wall.
- b. lower portion of the uterus near the cervical os.
- c. inner third of the fallopian tube near the uterus.
- d. lateral aspect of the uterine wall.

ANS: A

The zygote usually implants in the upper section of the posterior uterine wall.

DIF:	Cognitive Level: Knowledge	REF: p. 34	OBJ: 3
TOP:	Implantation KEY: Nursing	Process Step: N/A	
MSC:	NCLEX: Health Promotion and	l Maintenance: Growth	and Development

- 7. The embryonic membrane that contains fingerlike projections on its surface, which attach to the uterine wall, is the:
- a. amnion.
- b. yolk sac.
- c. chorion.
- d. decidua basalis.

ANS: C

The chorion is a thick membrane with fingerlike projections (villi) on its outermost surface.

DIF:Cognitive Level: KnowledgeREF:pp. 34-35OBJ:4TOP:Accessory Structures of PregnancyKEY:Nursing Process Step:N/AMSC:NCLEX: Health Promotion and Maintenance:Growth and Development

- 8. The nurse explains that the hormone responsible for converting the endometrium into decidual cells for implantation is:
- a. estrogen.
- b. human chorionic gonadotropin.
- c. human placental lactogen.
- d. progesterone.

ANS: D

At high levels, progesterone maintains the endometrial lining for implantation of the zygote.

DIF: Cognitive Level: Knowledge REF: p. 39 OBJ: 6

TOP: Placenta KEY: Nursing Process Step: N/A

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 9. When the patient asks when her infant's heart will begin to pump blood, the nurse replies that blood circulation begins:
- a. by the end of week 3.
- b. beginning in week 8.
- c. at the end of week 16.
- d. beginning in week 24.

ANS: A The fetal heart begins to pump by week 3 of gestation.

DIF:Cognitive Level: KnowledgeREF:p. 36OBJ:5TOP:Prenatal DevelopmentKEY:Nursing ProcessStep:N/AMSC:NCLEX: Health Promotion and Maintenance: Growth and Development

10. In fetal circulation, the purpose of the ductus venosus is to bypass the:

- a. liver.
- b. heart.
- c. lungs.
- d. kidneys.

ANS: A

Fetal blood bypasses the liver through the ductus venosus by carrying blood directly to the inferior vena cava.

DIF:Cognitive Level: KnowledgeREF:p. 39OBJ:7TOP:Prenatal DevelopmentKEY:Nursing ProcessStep:N/AMSC:NCLEX: Health Promotion and Maintenance: Growth and Development

- 11. Untreated respiratory distress in the newborn could cause which complication?
- a. Esophageal atresia
- b. Gastric dilation
- c. Cold stress
- d. Reopening of the foramen ovale

ANS: D

Respiratory distress can cause increased pressure in the right ventricle, causing reopening of the foramen ovale.

DIF:	Cognitive Level: Application	REF:	p. 40	OBJ: 7	
TOP:	Fetal Circulation	KEY:	Nursing Proce	ess Step:	
Impler	nentation				
MSC: NCLEX: Health Promotion and Maintenance: Growth and Development					

- 12. During an ultrasound, two amnions and two placentas are observed. The nurse is aware that this pregnancy will result in twins.
- a. dizygotic
- b. monozygotic
- c. conjoined
- d. high birth-weight

ANS: A Dizygotic twins always have two amnions and two chorions (placentas).

DIF:	Cognitive Level: Analysis	REF:	p. 41	OBJ: 8
TOP:	Multifetal Pregnancy	KEY:	Nursing Proc	ess Step: Assessment
MSC:	NCLEX: Health Promotion and Ma	intenan	ce: Growth and	1 Development

13. A woman who is 25 weeks pregnant asks the nurse what her fetus looks like. The nurse explains that one physical characteristic present in a 25-week-old fetus is:

- a. lanugo covering the body.
- b. constant motion.
- c. skin that is pink and smooth.
- d. eyes that are closed.

ANS: A

By 25 weeks, the body of the fetus is covered with lanugo, the eyes are open, the skin is wrinkled, and the fetus has definite periods of movement and sleeping.

- DIF: Cognitive Level: Application REF: p. 37, Table 3-1
- OBJ: 5 TOP: Prenatal Development
- KEY: Nursing Process Step: Implementation

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

14. At what point in prenatal development do the lungs begin to produce surfactant?

- a. 17 weeks
- b. 20 weeks
- c. 25 weeks
- d. 30 weeks

ANS: C

During week 25, the alveoli begin to produce surfactant, which enables the alveoli to stay open for adequate lung oxygenation to occur.

- DIF: Cognitive Level: Knowledge REF: p. 37, Table 3-1
- OBJ: 5 TOP: Prenatal Development
- KEY: Nursing Process Step: N/A

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 15. A woman missed her menstrual period 1 week ago and has come to the doctor's office for a pregnancy test. The nurse knows that the placental hormone measured in pregnancy tests is:
- a. progesterone.
- b. estrogen.
- c. human chorionic gonadotropin.
- d. human placental lactogen.

ANS: C

Human chorionic gonadotropin is the basis for most pregnancy tests. It is detectable in maternal blood as soon as implantation occurs, usually 7 to 9 days after fertilization.

DIF: Cognitive Level: Knowledge REF: p. 39 OBJ: 6

TOP: Accessory Structures of Pregnancy KEY: Nursing Process Step: Assessment

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 16. When preparing to teach a class about prenatal development, the nurse would include information about folic acid supplementation because it is known to prevent:
- a. congenital heart defects.
- b. neural tube defects.
- c. mental retardation.
- d. premature birth.

ANS: B

It is now known that folic acid supplements can prevent neural tube defects such as spina bifida.

DIF:	Cognitive Level: Comprehension	REF:	p. 37	OBJ: 5
TOP:	Prenatal Development		KEY:	Nursing Process
Step: I	Planning			

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 17. The nurse informs a class of expectant parents that the fetus is first considered viable at the age of _____ weeks.
- a. 14
- b. 20
- c. 25
- d. 30

ANS: B

By 20 weeks of gestation, the lungs have matured enough for the fetus to survive outside the uterus (age of viability).

DIF:	Cognitive Level: Knowledge	REF:	p. 37	OBJ: 5	
TOP:	Prenatal Developmental Milestones	KEY:	Nursing Pr	cocess Step: N/A	
			~ .		

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 18. The nurse explains that if one parent has a dominant gene and the other parent does not, the percentage of children carrying the dominant gene will be:
- a. 10%.
- b. 25%.
- c. 50%.
- d. 100%.

ANS: C

If one parent has a dominant trait and the other does not, then 50% of the children will inherit the trait.

DIF:	Cognitive Level: Comprehension	REF:	p. 33	OBJ: 4
TOP:	Dominant Traits	KEY:	Nursing Proces	ss Step:
Impler	nentation			

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

- 19. The nurse explains that monozygotic twins are frequently below average birth weight because of inadequate:
- a. space in the uterus.
- b. blood supply.
- c. maternal health.
- d. placental nutrition.

ANS: D

The single placenta may not be able to provide adequate nutrition to two fetuses.

DIF:Cognitive Level: ComprehensionREF:p. 41OBJ:8TOP:Low Birth-Weight TwinsKEY:Nursing Process Step:ImplementationMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

- 20. The school nurse counseling a group of adolescent girls states that sperm ejaculated near the cervix:
- a. are destroyed by the acidic pH of the vagina.
- b. survive up to 5 days and can cause pregnancy.
- c. lose their motility in about 12 hours after intercourse.
- d. are usually pushed out of the vagina by the muscular action of the vaginal wall.

ANS: B

Sperm ejaculated near the cervix can survive up to 5 days and cause pregnancy even before ovulation.

DIF:Cognitive Level: ComprehensionREF:p. 33OBJ:Objective: 3TOP:FertilizationKEY:Nursing Process Step:ImplementationMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

- MSC. NCLEA. Health Fromotion and Maintenance. Growth and Development
- 21. The nurse explains that survival of the X and Y bearing sperm after intercourse can be affected by the woman's:
- a. age.
- b. estrogen level.
- c. body temperature.
- d. level of feminine hygiene.

ANS: B

Estrogen levels and the pH of the female reproductive tract can affect the survival of the X- and Y-bearing sperm as well as their motility.

DIF:Cognitive Level: KnowledgeREF:p. 33OBJ:Objective: 3TOP:FertilizationKEY:Nursing Process Step: ImplementationMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

3-7

- 22. The normal umbilical cord is comprised of:
- a. 1 artery carrying blood to the fetus and 1 vein carrying blood away from the fetus.
- b. 1 artery carrying blood to the fetus and 2 veins carrying blood away from the fetus.
- c. 2 arteries carrying blood away from the fetus and 1 vein carrying blood to the fetus.
- d. 2 arteries carrying blood to the fetus and 2 veins carrying blood away from the fetus.

ANS: C

The umbilical cord is comprised of 2 arteries carrying blood away from the fetus and 1 vein carrying blood to the fetus.

DIF:	Cognitive Level: Knowledge	REF: p. 39	OBJ: Objective: 6
TOP:	Fetal Circulation	KEY: Nursing Pr	rocess Step: N/A
MSC:	NCLEX: Health Promotion and Ma	intenance: Growth	and Development

MULTIPLE RESPONSE

- 23. A nurse is teaching a class on fetal development to a class of high school students and explains the primary germ layers. What are the germ layers? Select all that apply.
- a. Ectoderm
- b. Endoderm
- c. Mesoderm
- d. Plastoderm
- e. Blastoderm

ANS: A, B, C

The zygote transforms its embryonic disc into three layers: the ectoderm, the mesoderm, and the endoderm.

DIF: Cognitive Level: Knowledge REF: p. 35, Box 3-1

OBJ: 4 TOP: Primary Germ Layers

KEY: Nursing Process Step: Implementation

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

24. The amniotic fluid has several functions. What are they? Select all that apply.

- a. Maintaining an even temperature
- b. Impeding excessive fetal movement
- c. Lubricating fetal skin
- d. Acting as reservoir for nutrients
- e. Acting as cushion for fetus

ANS: A, E

The amniotic fluid provides maintenance of even temperature; prevents amnion from adhering to fetal skin; allows buoyancy, symmetrical growth, and fetal movement; and acts as a cushion for the fetus. Although the fetus does swallow amniotic fluid, it has no nutritional value.

DIF: Cognitive Level: Knowledge REF: p. 35, Box 3-1

OBJ: 6 TOP: Amniotic Fluid

KEY: Nursing Process Step: Implementation

MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

COMPLETION

25. The nurse explains that prior to fertilization each cell is reduced from 46 chromosomes to 23 chromosomes. This is referred to as the ______ number.

ANS:

haploid

When each cell reduces its chromosomes from 46 to 23, it is called the haploid number.

DIF:Cognitive Level: ComprehensionREF:p. 31OBJ:3TOP:Haploid NumberKEY:Nursing Process Step:ImplementationMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

26. The component of development that programs the genetic code into the nucleus of the cell is _____.

ANS:

DNA

The DNA programs the genetic code to the nucleus of the cell to be replicated.

DIF:Cognitive Level: KnowledgeREF:p. 31OBJ:4TOP:DNAKEY:Nursing Process Step:N/AMSC:NCLEX:Health Promotion and Maintenance:Growth and Development

27. The vessels comprising the umbilical cord are cushioned and protected by a substance called ________.

ANS:

Wharton's jelly

Wharton's jelly is a substance in the umbilical cord that cushions and protects the vessels.

DIF:	Cognitive Level: Knowledge	REF:	p. 39	OBJ:	Objective: 1
TOP:	Fetal Circulation	KEY:	Nursing Proc	ess Step	: N/A

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MSC: NCLEX: Health Promotion and Maintenance: Growth and Development

OTHER

28. Organize the developmental stages in the correct order.

- a. Fetus
- b. Zygote
- c. Embryo
- d. Blastocyst
- e. Morula

ANS:

B, E, D, C, A The development follows these stages: zygote, morula, blastocyst, embryo, and fetus.

DIF:	Cognitive Level: Application	REF:	p. 36	OBJ: 4
TOP:	Fetal Development	KEY:	Nursing F	Process Step: N/A
MSC:	NCLEX: Health Promotion and Ma	intenano	e: Growth	and Development