#### Nutrition Through the Life Cycle 6th Edition Brown Test Bank

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#### **<u>Chapter 02 - Preconception Nutrition</u>**

#### True / False

1. The subfertility of one partner can be overcome by the reproductive capacity in the other partner.

a. True	
b. False	
ANSWER:	True
REFERENCES:	Preconception Overview
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.
KEYWORDS:	Understand
<ol> <li>Weight gain is the recom</li> <li>a. True</li> <li>b. False</li> </ol>	mended first-line treatment for amenorrhea related to low body weight.
ANSWER:	True
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand

3. Regular intake of soy foods such as tofu, soymilk, tempeh, and textured soy protein is related to elevated sperm count in men and increased fertility in women.

a. Trueb. FalseANSWER:FalseREFERENCES:Nutrition and FertilityLEARNING OBJECTIVES:NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body<br/>fat content, iron status, and alcohol intake on fertility in females and males.KEYWORDS:Understand

4. Obese women tend to have higher levels of estrogen, androgens, and leptin than nonobese women.

a. True

b. False	
ANSWER:	True
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Understand
KEIWOKDS.	Understand

5. Women trying to get pregnant should avoid all sources of caffeine.

a. True

b. False	
ANSWER:	False
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body

fat content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

6. Alcohol intake has been found to reduce fertility only in women with a specific gene variant that reduces the rate of alcohol breakdown in the body.

	Juy.
a. True	
b. False	
ANSWER:	True
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Understand
<ul><li>7. It is easier and more effic a. True</li><li>b. False</li></ul>	eient to build up iron stores before pregnancy than during pregnancy.
ANSWER:	True
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Understand
<ul> <li>8. It is preferable to meet nutrient requirements through dietary supplements rather than foods.</li> <li>a. True</li> <li>b. False</li> </ul>	
ANSWER:	False
REFERENCES:	Recommended Dietary Intake and Healthy Dietary Patterns for Preconceptional Women
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.5 - Develop a one-day menu for a preconceptional woman and a man based on the ChooseMyPlate.gov food guidance materials.
KEYWORDS:	Understand
<ul> <li>9. Fertility has been known to return immediately upon cessation of contraceptive use.</li> <li>a. True</li> <li>b. False</li> </ul>	
ANSWER:	False
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Remember
<ul><li>10. In Indonesia, a couple Bloom's Applying for a marriage license are required to receive advice on iron status from those dispensing the license.</li><li>a. True</li></ul>	

u. IIue	
b. False	
ANSWER:	True

REFERENCES:	Model Preconceptional Health and Nutrition Programs
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional
	health care.
KEYWORDS:	Remember

11. The desire of couples planning for pregnancy to have a healthy newborn means that the preconceptional period is too stressful a time for psychosocial services.

a. True	
b. False	
ANSWER:	False
REFERENCES:	Model Preconceptional Health and Nutrition Programs
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional
	health care.
KEYWORDS:	Remember

#### **Multiple Choice**

12. Fertility refers to the		
a. biological capacity to	bear children	
b. desire to bear childre	n	
c. actual production of	children	
d. number of births per	1000 miscarriages	
e. number of births per	1000 women of childbearing age	
ANSWER:	c	
REFERENCES:	Preconception Overview	
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.	
KEYWORDS:	Remember	
a. 3 months b. 6 months c. 9 months d. 1 year e. 1.5 year	efined as the lack of conception after of unprotected intercourse.	
ANSWER:	d	
REFERENCES:	Preconception Overview	
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related	
	objectives for the preconception period.	

*KEYWORDS:* Remember

14. Healthy couples having regular, unprotected intercourse have a \_\_\_\_\_ chance of a diagnosed pregnancy within a given menstrual cycle.

a. 15-20%b. 20-25%

c. 25-30%

· · · · ·	
d. 30-50%	
e. 50-75%	
ANSWER:	b
REFERENCES:	Preconception Overview
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.
KEYWORDS:	Remember
15. What is the rate of misca	arriage in the first 20 weeks of pregnancy?
a. 6%	
b. 7%	
c. 8%	
d. 9%	
e. 15%	
ANSWER:	d
REFERENCES:	Preconception Overview
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.
KEYWORDS:	Remember
<ul><li>16. The most common cause of miscarriage for women is</li><li>a. a structural abnormality in the uterus</li></ul>	
b. the presence of a sev	ere defect in the fetus
c. maternal infection	
d. an endocrine disorde	r
e. physical trauma to th	e mother
ANSWER:	b
REFERENCES:	Preconception Overview
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.
KEYWORDS:	Remember
17. The phase of the a. follicular	menstrual cycle occurs after ovulation.
b. luteal	
c. estrogen	
d. primordial	
e. FSH	
ANSWER:	b
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember

18. The first half of the menstrual cycle is called the \_\_\_\_\_ phase.

- a. follicular
- b. luteal
- c. estrogen
- d. primordial
- e. menses
- ANSWER:

**REFERENCES:** 

- **Reproductive** Physiology
- LEARNING OBJECTIVES: NTLC.BRWN.17.2.2 Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.

*KEYWORDS:* Remember

19. Ovulation results from a surge in the \_\_\_\_\_ hormone.

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- a. estrogen
- b. progesterone
- c. luteinizing
- d. follicle-stimulating
- e. gonadotropin-releasing

U	•	
ANSWER:		c
REFERENCE	S:	Reproductive Physiology
LEARNING O	BJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and
		female fertility processes, and identify their source and effects on the regulation of fertility
		processes.
KEYWORDS:		Remember

20. The two hormones secreted by the pituitary gland during the follicular phase of a woman's cycle are \_\_\_\_\_.

- a. follicle-stimulating hormone and progesterone
- b. progesterone and estrogen
- c. follicle-stimulating hormone and luteinizing hormone
- d. luteinizing hormone and progesterone
- e. luteinizing hormone and estrogen

ANSWER:

 REFERENCES:
 Reproductive Physiology

 LEARNING OBJECTIVES:
 NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.

 KEYWORDS:
 Remember

21. The \_\_\_\_\_ releases \_\_\_\_\_, stimulating the pituitary gland to release FSH and LH.

- a. ovary; estrogen
- b. ovary; progesterone
- c. uterus; progesterone
- d. hypothalamus; estrogen
- e. hypothalamus; gonadotropin-releasing hormone

ANSWER:	e
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand

- 22. After ovulation, the corpus luteum secretes \_\_\_\_\_, which \_\_\_\_\_
  - a. progesterone and estrogen; stimulates the ovulation of a second egg
  - b. progesterone and estrogen; stimulates development of the endometrium
  - c. follicle-stimulating hormone and luteinizing hormone; stimulates development of the endometrium
  - d. luteinizing hormone and estrogen; facilitates fertilization of the egg
  - e. luteinizing hormone and estrogen; stimulates ovulation of a second egg

ANSWER:	b
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand

23. A menstrual flow results from \_\_\_\_\_

- a. implantation of a fertilized in the endometrium
- b. a drop in progesterone and estrogen levels
- c. the release of gonadotropin-releasing hormone by the hypothalamus
- d. the production of prostaglandins by the uterus
- e. the release of progesterone and estrogen by the corpus luteum

ANSWER:	b
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand

24. In a "typical" 28-day cycle, when would levels of luteinizing hormone most likely be the highest?

a. day 1	
b. day 7	
c. day 10	
d. day 14	
e. day 28	
ANSWER:	d
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Apply

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25. Cramps and other side e	ffects of menstruation can be traced back to the production of by the uterus.
a. progesterone	
b. estrogen	
c. prostaglandins	
d. luteinizing hormone	
e. gonadotropin-releasi	ng hormone
ANSWER:	c
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember
26. The female gonads are t	he while the male gonads are the
a. ovaries; testes	
b. ovaries; epididymis	
c. uterus; testes	
d. uterus; prostate gland	1
e. ovaries; prostate glar	nd
ANSWER:	a
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember
27. In males, mature sperm	are stored in the
a. testes	
b. urethra	
c. prostate gland	
d. seminal vesicles	
e. epididymis	
ANSWER:	e
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember
28. Which hormone(s) trigg a. follicle-stimulating h	er(s) the production of testosterone by the testes?
b. luteinizing hormone	-

- c. progesterone only
- d. luteinizing hormone and progesterone
- e. follicle-stimulating hormone and luteinizing hormone

ANSWER:	e		
REFERENCES:	Reproductive Physiology		
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.		
KEYWORDS:	Remember		
29. Semen is composed of _			
a. sperm only			
b. sperm and secretions	from the bulbourethral gland only		
c. secretions from the b	ulbourethral gland, prostate, and seminal vesicles only		
	from the testes, bulbourethral gland, prostate, and seminal vesicles		
-	from the bulbourethral gland, prostate, and vas deferens		
ANSWER:	d		
REFERENCES:	Reproductive Physiology		
	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.		
KEYWORDS:	Remember		
30. Endometriosis is defined	1 as		
a. scarring and blockag	e of the fallopian tubes		
b. the condition in which endometrial tissue becomes embedded within other body tissues			
c. a modification of pregnancy hormones that results in infertility			
d. an infection of the cervix			
e. the inability to get pr	e. the inability to get pregnant		
ANSWER:	b		
REFERENCES:	Reproductive Physiology		
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.		
KEYWORDS:	Remember		
	elated to infertility are ties that modify hormonal regulation of fertility		
b. unknown causes			
c. environmental contai	minants such as lead and mercury		
d. overweight and obest	ity in men		
e. sexually transmitted	diseases		
ANSWER:	a		
REFERENCES:	Reproductive Physiology		
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.		
KEYWORDS:	Remember		

32. Which factor would be more likely to affect female fertility than male fertility?

- a. inadequate body fat
- b. poor iron stores
- c. high alcohol intake
- d. excessive body fat
- e. excessive exercise

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ANSWER:
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**REFERENCES:** 

Reproductive Physiology

b

LEARNING OBJECTIVES: NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.

**KEYWORDS:** Remember

- 33. Which factor has been linked to impaired fertility in males but not females?
  - a. high sperm count
  - b. oxidative stress
  - c. severe psychological stress
  - d. excessive heat to the gonads
  - e diabetes

c. diabetes		
ANSWER:	d	
REFERENCES:	Reproductive Physiology	
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.	
KEYWORDS:	Remember	

- 34. Which statement related to male and female fertility is true?
  - a. During a female's fertile years, approximately 1000 ova will mature and be released for possible fertilization.
  - b. For males, sperm numbers and viability decrease somewhat after age 30.
  - c. For both males and females, the quality of eggs and sperm decrease somewhat with age.
  - d. Females are born with mature eggs.
  - e. Males produce sperm from birth until death.

ANSWER:

C **REFERENCES: Reproductive Physiology** LEARNING OBJECTIVES: NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes. **KEYWORDS:** Remember

- 35. Pelvic inflammatory disease (PID) can \_\_\_\_\_.
  - a. cause less estrogen to be secreted, thus blocking ovulation
  - b. lead to scarring and blockage of the fallopian tubes
  - c. cause sperm to become less viable, when transferred to a male
  - d. increase the lining of the endometrium
  - e. decrease zinc absorption

ANSWER:	b
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand
<ul> <li>36. A body mass index (BMI) greater than kg/m<sup>2</sup> is typically needed to sustain normal reproductive function in women.</li> <li>a. 17</li> </ul>	

- b. 20
- c. 25
- d. 30
- e. 35

	0. 55	
4	ANSWER:	b
1	REFERENCES:	Nutrition and Fertility
1	LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body
		fat content, iron status, and alcohol intake on fertility in females and males.
	KEYWORDS:	Remember

37. An anovulatory cycle is \_\_\_\_\_.

a. the absence of a menstrual cycle

b. a menstrual cycle in which ovulation does not occur

c. an abnormally short menstrual cycle

d. an abnormally long menstrual cycle

e. a menstrual cycle in which more than one egg is ovulated

*REFERENCES:* Nutrition and Fertility

b

*LEARNING OBJECTIVES:* NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.

*KEYWORDS:* Remember

38. Which dietary component can protect cells of the reproductive system from damage by free radicals?

a. fiber	
b. calcium	
c. iron	
d. fat	
e. antioxidants	
ANSWER:	e
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Remember

39. Young female athletes often experience a delay in menarche of approximately what duration?

a. 6 months to 1 year	
b. 1 to 2 years	
c. 2 to 4 years	
d. 5 years	
-	nce a delay in menarche.
ANSWER:	c
REFERENCES:	Nutrition and Fertility
	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Remember
40. In men who drink 5-25 a a. total sperm count inc	alcoholic drinks per week, reases
b. testosterone levels de	ecrease
c. sperm concentration	increases
d. the percent of sperm	with normal shape decreases
e. there is no effect on t	fertility
ANSWER:	d
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Understand
41. The fertilized egg is call a. conception until birth	-
b. conception through 8	3 weeks
c. conception through 4	months
d. 8 weeks until birth	
e. 9 months until birth	
ANSWER:	b
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Remember
a. excessive vitamin A b. iron deficiency	
c. high blood levels of I	lead
d. obesity	
e. folate deficiency	
ANSWER:	a
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.

#### **KEYWORDS**: Remember

43. DNA methylation \_\_\_\_

a. modifies gene function in the fetus during late pregnancy

- b. activates gene expression
- c. is an abnormal part of development
- d. is needed for cellular differentiation
- e. is unaffected by nutritional intake

ANSWER:	d
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and
	nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Remember

**KEYWORDS**:

44. Spina bifida is an example of a \_\_\_\_\_.

- a. neural tube defect
- b. DNA modification
- c. gene variant
- d. nutritional deficiency
- e. metabolic programming mechanism

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#### Nutrition During the Periconceptional Period **REFERENCES:**

LEARNING OBJECTIVES: NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy. **KEYWORDS:** Remember

45. The risk of early delivery is increased by \_\_\_\_\_.

b

- a. excessive vitamin A intake
- b. iron deficiency
- c. iodine deficiency
- d. high maternal blood levels of lead
- e. diabetes

#### ANSWER:

**REFERENCES:** Nutrition During the Periconceptional Period

## LEARNING OBJECTIVES: NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.

**KEYWORDS:** Remember

46. Refined grain products are often fortified with \_\_\_\_\_ to decrease rates of \_\_\_\_\_.

- a. folic acid; neural tube defects
- b. iron; neural tube defects
- c. iodine; early delivery
- d. folic acid; early delivery
- e. vitamin A; fetal heart abnormalities

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#### ANSWER:

<u>Chapter 02 - 1 reconception</u>	
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Understand
47. What nutritional and he	alth advice would a doctor likely give to a preconceptional couple?
a. The woman's physic	cal activity should be limited to less than 30 minutes per day.
b. For vegetable intake	, both should eat mostly dark green vegetables.
c. At least half of the w	voman's grain intake should be refined grains.
d. The woman's vitami	n should take at least 10,000 IU of vitamin A per day.
e. The woman should c	consume 400 mcg of folic acid in addition to dietary folate.
ANSWER:	e
REFERENCES:	Recommended Dietary Intake and Healthy Dietary Patterns for Preconceptional Women
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.5 - Develop a one-day menu for a preconceptional woman and a man based on the ChooseMyPlate.gov food guidance materials.
KEYWORDS:	Apply
48. Contraceptives may con	itain
a. estradiol only	
b. luteinizing hormone	only
c. estradiol only or pro	gestin only
d. progestin only or a c	ombination of estradiol and progestin
e. a combination of lute	einizing hormone and progestin
ANSWER:	d
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Remember
49. Combination hormonal a. weight gain	contraceptives are least likely to be associated with
b. decreased blood leve	els of HDL cholesterol
c. increased risk of blo	od clots
d. increased levels of tr	riglycerides and LDL cholesterol
e. increased blood gluc	
ANSWER:	a
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Remember
50 A woman would likely	be advised to switch from a progestin-only hormonal contracentive to a combination hormonal

50. A woman would likely be advised to switch from a progestin-only hormonal contraceptive to a combination hormonal contraceptive due to \_\_\_\_\_.

a. weight gain

h inderhilder	
b. irritability	
c. fatigue	
d. headache	
e. abdominal pain	
ANSWER:	a
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Understand
51. Fertility usually resumes	s within after contraceptive use stops.
a. 3 to 6 weeks	
b. 3 to 6 months	
c. 3 to 6 days	
d. 6 to 10 weeks	
e. 6 to 10 months	
ANSWER:	b
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Remember
52. Women taking oral cont	raceptive pills are cautioned against
-	bunts of animal products
b. consuming too many	*
c. eating more than $1/2$	cup of peanut butter weekly
d. smoking	
e. ingesting too much v	itamin A
ANSWER:	d
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Remember
-	ntraceptives being developed for men are those containing as a means of release of sperm into the semen
b. luteinizing hormone;	reducing sperm production
c. testosterone; reducin	g sperm production
d. luteinizing hormone; e. testosterone; inhibiti	inhibiting release of sperm into the semen ng ejaculation
ANSWER:	c
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status

	of estrogen or progestin contraceptives only.
KEYWORDS:	Understand
	ornia, women who received WIC benefits from one pregnancy through the first two months of than women who only received WIC services during their first pregnancy.
a. better iron status	
b. lower zinc levels	
c. newborns with lower	birth weights
d. newborns with lower	birth lengths
e. higher blood glucose	levels
ANSWER:	a
REFERENCES:	Model Preconceptional Health and Nutrition Programs
	NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health care.
KEYWORDS:	Understand
55. A potential future target	audience of the WIC program is low-income
a. postpartum women	
b. pregnant women	
c. children	
d. breastfeeding women	
e. preconceptional wom	ien
	a
REFERENCES:	Model Preconceptional Health and Nutrition Programs
	NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health care.
KEYWORDS:	Understand

health and health care services?

- a. Food and Drug Administration
- b. US Department of Agriculture
- c. Centers for Disease Control and Prevention
- d. National Institutes of Health
- e. National Academy of Nutrition and Dietetics

ANSWER:cREFERENCES:Model Preconceptional Health and Nutrition ProgramsLEARNING OBJECTIVES:NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional<br/>health care.KEYWORDS:Remember

57. The National Academy of Nutrition and Dietetics has developed a set of standards called \_\_\_\_\_\_ to serve as guidelines for the delivery of nutrition services.

a. the Nutrition Care Process

b. WIC

- c. Preconception Health Services
- d. Pregnancy Health Standards
- e. Preconception Nutrition Guidelines

а

ANSWER:

 REFERENCES:
 The Nutrition Care Process

 LEARNING OBJECTIVES:
 NTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.

 KEYWORDS:
 Remember

58. Which statement correctly describes preconception health care?

- a. Preconception health care is concerned with the health and nutrition status of females rather than males.
- b. Pregnant females are a target audience of preconception health care.
- c. Fetal health and development is not a concern of preconception health care.
- d. Preconception health care may concern topics such as weight and dietary supplement use.
- e. Preconception health care advises couples about the most effective contraceptive methods to use.

ANSWER:dREFERENCES:The Nutrition Care ProcessLEARNING OBJECTIVES:NTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.KEYWORDS:Remember

## Matching

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks
- g. The involuntary absence of production of children
- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

REFERENCES: Preconception Overview

*LEARNING OBJECTIVES:* NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.

KEYWORDS:

Remember

59. Fetus ANSWER: g

60. ANSWER: c

61. Subfertility Copyright Cengage Learning. Powered by Cognero.

ANSWER: h

62. Fetus ANSWER: e

63. Fertility ANSWER: d

64. Infecundity *ANSWER:* a

65. Miscarriage ANSWER: k

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
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- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

*REFERENCES:* Reproductive Physiology

*LEARNING OBJECTIVES:* NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

66. Puberty ANSWER: i

67. Corpus luteum ANSWER: b

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
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- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle

k. The loss of a conceptus in the first 20 weeks of pregnancy

*REFERENCES:* Nutrition and Fertility

*LEARNING OBJECTIVES:* NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Remember

68. Amenorrhea *ANSWER:* j

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks
- g. The involuntary absence of production of children
- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

*REFERENCES:* Nutrition During the Periconceptional Period

*LEARNING OBJECTIVES:* NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.

*KEYWORDS:* Remember

69. The developing organism from conception to 8 weeks *ANSWER*: f

#### **Subjective Short Answer**

70. Describe the three types of individuals who would be considered subfertile.

ANSWER:	Women who experience multiple miscarriages (variously defined as two or three), men who have sperm abnormalities (such as low sperm count or density, malformed sperm, or immobile sperm), and women who ovulate infrequently are considered subfertile.
REFERENCES:	Preconception Overview
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives for the preconception period.
KEYWORDS:	Understand

71. Discuss the relationship of weight and body fat in females. How can being very underweight or being very overweight affect fertility?ANSWER: In normal-weight women, weight loss that exceeds approximately 10–15 percent of usual

weight decreases estrogen, LH, and FSH concentrations. Consequences of these hormonal

	changes include amenorrhea, anovulatory cycles, and short or absent luteal phases. It is estimated that about 30 percent of cases of impaired fertility are related to simple weight loss. Hormone levels tend to return to normal when weight is restored to within 95 percent of previous weight. Weight gain is the recommended first-line treatment for amenorrhea related to low body weight. Obese women tend to have higher levels of estrogen, androgens, and leptin than nonobese women. These hormonal changes favor the development of menstrual-cycle irregularity (it occurs in 30 to 47 percent of overweight and obese women), ovulatory failure and anovulatory cycles, and amenorrhea. Loss of body fat is related to improvements in hormone levels, oxidative stress and chronic inflammation, and conception rates in both men and women.
REFERENCES:	Nutrition and Fertility
	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Understand
72. Describe the difference	in development of mature eggs and sperm.
ANSWER:	Females are born with a complement of immature ova and males with sperm-producing capabilities. For women, approximately 7 million immature ova, or primordial follicles, are formed during early fetal development, but only about one-half million per ovary remain by the onset of puberty. During a woman's fertile years, some 400–500 ova will mature and be released for possible fertilization. Due to losses in viable ova over time, very few remain by menopause. For men, sperm numbers and viability decrease somewhat after approximately 35 years of age, but sperm are produced from puberty until death.
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand
73 Define pelvic inflamma	tory disease and explain its cause.
ANSWER:	Pelvic inflammatory disease is a general term applied to infections of the cervix, uterus, fallopian tubes, or ovaries. It occurs predominantly in young women and is generally caused by infection with a sexually transmitted disease, such as gonorrhea or Chlamydia.
REFERENCES:	Reproductive Physiology
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand
74. A couple trying to become pregnant for six months without success sought medical care. The husband had a body	

74. A couple trying to become pregnant for six months without success sought medical care. The husband had a body mass index of 28 and the woman had irregular menses. During their medical visit, the woman mentioned that she had lost 10 pounds one month ago because she was worried about gaining too much weight in pregnancy. What types of dietary or lifestyle behaviors would be important to discuss?

The husband's body mass index indicates that he is overweight. His excess body fat may be affecting his fertility. Thus, he may be advised to eat a healthier diet, following nutritional guidelines, and exercise because loss of body fat is related to improvements in hormone levels, oxidative stress and chronic inflammation, and conception rates. The woman's irregular menses after losing 10 pounds suggests that her weight loss negatively affected her

ANSWER:

	fertility. Particularly, if she was originally of normal weight and lost 10 to 15% of her body
	weight through her diet, such weight loss has been linked to decreased estrogen, LH, and FSH concentrations. Her irregular menses, termed amenorrhea, may return to normal if her weight is restored to within 95% of her previous weight. Through regaining weight, her hormone levels may be returned to normal and her fertility improved.
REFERENCES:	Nutrition and Fertility
	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Remember
75. Explain how contracept	ive pills containing estradiol and progestin work.
ANSWER:	When used together, estradiol and progestin suppress the action of LH and FSH and thereby ovulation. Progestin blocks LH and ovulation, and, by causing the cervical mucus to become thick and sticky, it induces a barrier to sperm.
REFERENCES:	Influence of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only.
KEYWORDS:	Understand
76 How might male reprod	uctive health suffer due to inadequate intake of antioxidant nutrients?
ANSWER:	Antioxidant nutrients are needed to protect cells of the reproductive system, including eggs and sperm, from damage due to oxidative stress. Oxidative stress occurs when the production of potentially destructive reactive oxygen molecules (free radicals) exceeds the body's own antioxidant defenses. Reactive oxygen molecules attack polyunsaturated fatty acids in sperm membranes, and that decreases sperm motility and reduces the ability of sperm to fuse with an egg. Once the membrane surrounding sperm is damaged, reactive oxygen molecules can enter the sperm cell and damage DNA. This can result in the passage of defective DNA.
REFERENCES:	Nutrition and Fertility
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat content, iron status, and alcohol intake on fertility in females and males.
KEYWORDS:	Understand
77. Discuss the gene variant associated with folate status and its importance to preconceptional women.	
ANSWER:	Some individuals have an increased need for folate due to specific gene variants involved in folate metabolism. These gene variants can impair the conversion of folate to its active form and increase folate requirement. One of the best-studied and most common gene variants affects 5, 10-methylenetetrahydrofolate reductase (MTHFR) activity. This enzyme is responsible for production of the major circulating form of folate used by the body. The C677T allele of the gene that encodes for MTHFR produces an enzyme that has reduced activity. Women with this gene variant are at increased risk of having an NTD-affected newborn.
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Understand

78. A nonprofit organization wants to support the 2020 nutrition objective for the nation that is related to reducing the incidence of spina bifida and other neural tube defects. Define neural tube defects and describe the time frame for their

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## **Chapter 02 - Preconception Nutrition**

development after conception. Also, discuss any recommended behavioral or nutritional interventions important for women considering pregnancy.

ANSWER:	Neural tube defects (NTDs) are a group of birth defects that are caused by incomplete development of the brain, spinal cord, or their protective coverings. Spina bifida is one of the most common types of NTDs. NTDs develop between the third and fourth week after conception—or before many women even know they are pregnant, and well before prenatal care generally begins. Folate is an essential nutrient required for DNA replication and as a component of enzymatic reactions involved in amino acid synthesis and vitamin metabolism. Knowledge of the folate—neural tube defect relationship, and awareness that folate intake was inadequate in many women of childbearing age, prompted public health efforts to increase folate intake. In particular, efforts are focused on encouraging women to consume folic acid, a highly absorbable, synthetic form of this B vitamin. In 1998, the Food and Drug Administration mandated that refined grain products such as white bread, grits, crackers, rice, and pasta be fortified with folic acid. Many countries now fortify refined grain products with folic acid, and rates of NTDs have decreased significantly in these countries.
REFERENCES:	Nutrition During the Periconceptional Period
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.
KEYWORDS:	Understand
79. What types of services a	are offered as part of preconceptional care?
ANSWER:	Services focus on risk assessment of behaviors such as weight status, dietary and alcohol intake, folate and iron status, and vitamin, mineral, and herbal supplement use, as well as on the presence of diseases such as diabetes, hypertension, infections, and genetic traits that may be transmitted to offspring. Psychosocial needs should also be addressed as part of preconceptional care, and referrals made to appropriate services for issues such as eating disorders, abuse, violence, or lack of food or shelter.
REFERENCES:	Model Preconceptional Health and Nutrition Programs
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health care.
KEYWORDS:	Understand
80. List the four steps of the	Nutrition Care Process.
ANSWER:	The Nutrition Care Process consists of nutrition assessment, nutrition diagnosis, nutrition intervention, and nutrition monitoring and evaluation.
REFERENCES:	The Nutrition Care Process
LEARNING OBJECTIVES:	NTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.
KEYWORDS:	Remember