# Unit 2: Diet in Health and Disease-I (Comprehensive Notes & Solved Exercises)

- **★** What's Included?
- Detailed Notes for Fever, Diarrhea, Eating Disorders, and Obesity
- 30 MCQs with Answers
- 20 One-Mark Questions
- 20 Two-Mark Questions
- 20 Three-Mark Questions
- 10 Four-Mark Questions
- Glossary of Important Terms
- Motivational Special Note from Srishti Ma'am

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# Chapter 5: Fever ( Acute & Chronic)

#### **Summary Notes:**

- Definition: Fever is an abnormal rise in body temperature due to infections or inflammation.
- Classification of Fever:

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- Acute Fever (∑) Lasts <1 week, e.g., malaria, viral infections.
- Sub-acute Fever (17) Lasts up to 2 weeks, e.g., typhoid.
- Chronic Fever (⚠) Lasts >2 weeks, e.g., tuberculosis, HIV.
- Intermittent Fever ( ) Comes and goes in cycles, e.g., malaria.
- Remittent Fever ( ) Temperature fluctuates but never returns to normal, e.g., typhoid.
- **Symptoms:** 4 High temperature, 4 chills, 4 headache, 6 muscle aches, 1 loss of appetite.
- Metabolic Changes: Increased BMR, Increased BM
- Dietary Management:

  - Soft and easily digestible food.

# Chapter 6: Diarrhea ( & )

# **Summary Notes:**

- Definition: Diarrhea is the frequent passage of loose, watery stools leading to dehydration.
- Types:
  - Acute Diarrhea (1) Lasts <2 weeks, caused by infections.
  - Chronic Diarrhea (177) Lasts >2 weeks, associated with diseases like IBS.
- Causes: Contaminated food, bacterial/viral infections, food intolerance, medication side effects.
- Symptoms: Loose stools, dehydration, abdominal pain, fatigue.
- Dietary Management:
  - Toral rehydration therapy (ORS).
  - Soft, low-fiber diet (e.g., rice, bananas, boiled potatoes).
  - X Avoid fatty, dairy-based, and spicy foods.

# Chapter 7: Eating Disorders ( )

# **Summary Notes:**

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- **Definition:** Eating disorders are psychological conditions that lead to unhealthy eating habits.
- Types of Eating Disorders:
  - Anorexia Nervosa (\sigma\bigsis) Extreme restriction of food intake, intense fear of gaining weight.
  - Bulimia Nervosa ( → ) Episodes of binge eating followed by purging (vomiting/laxatives).
  - Binge Eating Disorder ( ( ) Frequent episodes of overeating without purging.
- Causes: Low self-esteem, societal pressure, genetics, stress, hormonal imbalances.
- Symptoms: Extreme weight loss/gain, fatigue, digestive issues, mood swings.
- Dietary Management:
  - Balanced meals, small frequent portions.
  - Psychological therapy and support groups.
  - o Gradual reintroduction of nutrient-rich foods.

# Chapter 8: Obesity (110)

# **Summary Notes:**

- **Definition:** Excessive accumulation of body fat that increases health risks.
- Causes of Obesity:
  - o **Primary Causes:** Excess calorie intake, sedentary lifestyle, processed foods.
  - Secondary Causes: Hormonal disorders (thyroid imbalance), genetics, certain medications.
- Health Risks:
  - o Increased risk of diabetes, hypertension, heart diseases.
  - o Joint pain, sleep apnea, depression.
- Dietary Management:

  - Increased physical activity.
  - Behavioral therapy for lifestyle changes.

# **Multiple Choice Questions (MCQs)**

**Chapter 5: Fever** 

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- 1. What is the normal body temperature of humans?
  - a) 35°C
  - b) 36-37°C
  - c) 38°C
  - d) 40°C

Answer: b

- 2. Which of the following is NOT a symptom of fever?
  - a) High body temperature
  - b) Chills
  - c) Increased appetite
  - d) Muscle aches

Answer: c

- 3. Which type of fever comes and goes in cycles?
  - a) Acute fever
  - b) Intermittent fever
  - c) Continuous fever
  - d) Chronic fever

Answer: b

- 4. What is a common dietary recommendation for fever patients?
  - a) High-fat diet
  - b) High-protein and high-calorie diet
  - c) Low-protein diet
  - d) High-spice diet

Answer: b

- 5. Which of the following is a metabolic change in fever?
  - a) Decreased Basal Metabolic Rate (BMR)
  - b) Increased fluid retention
  - c) Increased protein breakdown
  - d) Decreased energy requirements

Answer: c

- 6. Which fever type lasts for more than two weeks?
  - a) Acute fever
  - b) Sub-acute fever
  - c) Chronic fever
  - d) Continuous fever

Answer: c

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- 7. Which disease is an example of a remittent fever?
  - a) Typhoid
  - b) Malaria
  - c) Dengue
  - d) Pneumonia

Answer: a

- 8. Which of the following is **not** an important nutrient for a fever patient?
  - a) Protein
  - b) Fluids
  - c) Vitamins
  - d) Spicy foods

Answer: d

#### **Chapter 6: Diarrhea**

- 9. What is the main cause of diarrhea?
  - a) Excessive sugar intake
  - b) Bacterial or viral infections
  - c) High fiber diet
  - d) Lack of exercise

Answer: b

- 10. What is the primary treatment for dehydration in diarrhea?
  - a) Antibiotics
  - b) Oral Rehydration Solution (ORS)
  - c) Fasting
  - d) High-fat diet

Answer: b

- 11. Which of the following should be avoided in diarrhea?
  - a) Rice and bananas
  - b) Spicy and fried foods
  - c) ORS
  - d) Boiled potatoes

Answer: b

- 12. Which electrolyte is most commonly lost in diarrhea?
  - a) Calcium
  - b) Sodium

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- c) Iron
- d) Magnesium

Answer: b

- 13. Which food is beneficial for diarrhea patients?
  - a) Fatty foods
  - b) Dairy products
  - c) Boiled potatoes
  - d) Fried chicken

Answer: c

- 14. Chronic diarrhea lasts for more than how many weeks?
  - a) 1 week
  - b) 2 weeks
  - c) 3 weeks
  - d) 4 weeks

Answer: b

- 15. Which disease is associated with **chronic diarrhea**?
  - a) Malaria
  - b) IBS (Irritable Bowel Syndrome)
  - c) Tuberculosis
  - d) Typhoid

Answer: b

- 16. What should be **restricted** in diarrhea management?
  - a) Water intake
  - b) Electrolytes
  - c) Fatty foods
  - d) Hydration therapy

Answer: c

## **Chapter 7: Eating Disorders**

- 17. Which of the following is **not** an eating disorder?
  - a) Anorexia Nervosa
  - b) Bulimia Nervosa
  - c) Diabetes
  - d) Binge Eating Disorder

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#### Answer: c

- 18. What is a key characteristic of Anorexia Nervosa?
  - a) Excessive food intake
  - b) Self-induced starvation and fear of weight gain
  - c) Eating only protein
  - d) Avoiding only junk food

Answer: b

- 19. In Bulimia Nervosa, what follows episodes of binge eating?
  - a) Weight training
  - b) Purging (vomiting, laxative use)
  - c) Excessive sugar intake
  - d) Starvation

Answer: b

- 20. Which psychological factor **commonly** leads to eating disorders?
  - a) High calcium intake
  - b) Body image concerns
  - c) Low cholesterol
  - d) Drinking too much water

Answer: b

- 21. Which disorder is characterized by excessive overeating without purging?
  - a) Anorexia Nervosa
  - b) Bulimia Nervosa
  - c) Binge Eating Disorder
  - d) Type 1 Diabetes

Answer: c

- 22. What are common symptoms of Anorexia Nervosa?
  - a) Rapid weight gain
  - b) Extreme weight loss, fatigue, and dry skin
  - c) Increased appetite
  - d) High cholesterol levels

Answer: b

# **Chapter 8: Obesity**

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- 23. What is the BMI range for an obese person?
  - a) 18.5 24.9
  - b) 25 29.9
  - c) 30 and above
  - d) Below 18.5

Answer: c

- 24. What is a primary cause of obesity?
  - a) Genetic mutation
  - b) Low physical activity and high-calorie intake
  - c) Drinking excessive water
  - d) High protein diet

Answer: b

- 25. Which hormone regulates appetite and metabolism?
  - a) Insulin
  - b) Leptin
  - c) Estrogen
  - d) Adrenaline

Answer: b

- 26. Which health condition is most strongly linked to obesity?
  - a) Tuberculosis
  - b) Hypertension and diabetes
  - c) Jaundice
  - d) Anemia

Answer: b

- 27. Which strategy is most effective for weight loss?
  - a) Skipping meals
  - b) Balanced diet and regular exercise
  - c) Taking diet pills
  - d) Drinking only fruit juice

Answer: b

- 28. What should an obese person include in their diet?
  - a) Processed fast foods
  - b) High-fiber, low-calorie foods
  - c) High-sugar sodas
  - d) Fried foods

Answer: b

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- 29. Obesity increases the risk of which disease?
  - a) Hypertension
  - b) Malaria
  - c) Tuberculosis
  - d) Anemia **Answer:** a
- 30. What is the **recommended** physical activity for obesity prevention?
  - a) Watching TV for long hours
  - b) Exercising for at least 30 minutes daily
  - c) Taking diet pills
  - d) Avoiding any movement

Answer: b

# One-Mark Questions (20) with Answers

**Chapter 5: Fever** 

1. Define fever.

Answer: Fever is an abnormal rise in body temperature due to infections or illness.

2. What is the normal human body temperature?

Answer: 36-37°C

3. Name one metabolic change that occurs during fever.

**Answer:** Increased Basal Metabolic Rate (BMR)

4. What type of fever lasts more than two weeks?

Answer: Chronic fever

5. Give one example of an intermittent fever.

**Answer:** Malaria

6. What is one dietary recommendation for fever patients?

Answer: High-calorie and high-protein diet

7. Which nutrient is most important for tissue repair in fever patients?

**Answer:** Protein

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## Chapter 6: Diarrhea

8. Define diarrhea.

**Answer:** Diarrhea is the frequent passage of loose, watery stools leading to dehydration.

9. What is the main cause of diarrhea?

Answer: Bacterial or viral infections

10. Which solution is used to treat dehydration caused by diarrhea?

**Answer:** Oral Rehydration Solution (ORS)

11. What is one symptom of severe dehydration?

Answer: Sunken eyes

12. Name one food that helps in managing diarrhea.

**Answer:** Boiled potatoes

13. Which electrolyte is most commonly lost in diarrhea?

Answer: Sodium

14. What type of diarrhea lasts more than two weeks?

Answer: Chronic diarrhea

#### **Chapter 7: Eating Disorders**

15. Name one eating disorder.

**Answer:** Anorexia Nervosa

16. What is the main characteristic of Bulimia Nervosa?

Answer: Binge eating followed by purging

17. Which eating disorder involves excessive food restriction?

Answer: Anorexia Nervosa

18. Name one psychological factor that contributes to eating disorders.

**Answer:** Body image concerns

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**Chapter 8: Obesity** 

19. What is the BMI range for an obese person?

Answer: 30 and above

20. Give one lifestyle cause of obesity.

**Answer:** Sedentary lifestyle (lack of physical activity)

# Three-Mark Questions (20) with Answers

#### **Chapter 5: Fever**

- What are the three main classifications of fever?
   Answer:
  - Acute Fever (Lasts less than one week, e.g., viral infections).
  - Sub-Acute Fever (Lasts between 1-2 weeks, e.g., typhoid).
  - o Chronic Fever (Lasts more than two weeks, e.g., tuberculosis).
- 2. List three metabolic changes that occur in fever.

#### Answer:

- Increased Basal Metabolic Rate (BMR).
- Increased protein breakdown leading to muscle loss.
- o Increased fluid and electrolyte loss.
- 3. What are the dietary recommendations for a person suffering from fever?

  Answer:
  - High-calorie diet to meet increased energy demands.
  - High-protein intake to prevent muscle breakdown.
  - Adequate fluids to prevent dehydration.
- 4. Explain the role of protein in the recovery of a fever patient.

#### Answer:

- Helps in tissue repair and healing.
- o Prevents muscle wasting due to increased protein breakdown.
- Supports immune function to fight infection.

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- 5. Differentiate between continuous and intermittent fever.

  Answer:
  - Continuous Fever: Body temperature remains high with minimal fluctuations (e.g., pneumonia).
  - o **Intermittent Fever**: Fever comes and goes in cycles (e.g., malaria).

#### Chapter 6: Diarrhea

- 6. What are three common causes of diarrhea? Answer:
  - Bacterial or viral infections (e.g., cholera, rotavirus).
  - Food intolerance (e.g., lactose intolerance).
  - Contaminated water and poor hygiene.
- 7. What are three symptoms of dehydration caused by diarrhea?

  Answer:
  - Dry mouth and sunken eyes.
  - o Reduced urine output.
  - Fatique and dizziness.
- 8. List three foods that should be included in a diarrhea management diet.

  Answer:
  - Boiled rice or khichdi (low-fiber, easy to digest).
  - Bananas (rich in potassium and electrolytes).
  - o ORS (Oral Rehydration Solution) to restore lost fluids.
- 9. Explain the importance of Oral Rehydration Therapy (ORT) in diarrhea treatment.

#### Answer:

- Replaces lost fluids and electrolytes.
- Prevents severe dehydration.
- Improves recovery and prevents complications.
- 10. List three foods that should be avoided during diarrhea.

#### Answer:

- Spicy and fried foods.
- Dairy products (except yogurt).
- High-fiber foods (e.g., whole grains).

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## **Chapter 7: Eating Disorders**

- 11. What are three psychological causes of eating disorders?
  - Answer:
- Low self-esteem and body dissatisfaction.
- Social media and peer pressure.
- Depression and anxiety disorders.
- 12. List three major differences between Anorexia Nervosa and Bulimia Nervosa.
  - Answer:
- Anorexia Nervosa: Extreme restriction of food intake.
- Bulimia Nervosa: Episodes of binge eating followed by purging.
- Anorexia causes severe weight loss, while Bulimia maintains normal weight.
- 13. What are three long-term health effects of Anorexia Nervosa?

  Answer:
- Malnutrition and extreme weight loss.
- Weak bones (osteoporosis) due to calcium deficiency.
- Heart problems due to electrolyte imbalance.
- 14. What are three symptoms of Binge Eating Disorder?

#### Answer:

- Eating large quantities of food even when not hungry.
- Feeling guilty or distressed after binge episodes.
- Rapid eating without control.
- 15. Explain the role of psychological therapy in treating eating disorders.

#### Answer:

- Helps patients recognize unhealthy thought patterns.
- Provides coping strategies to improve self-esteem.
- Supports gradual recovery with guided nutrition therapy.

#### **Chapter 8: Obesity**

16. List three major health risks associated with obesity.

#### Answer

- Increased risk of Type 2 diabetes.
- Higher chances of developing heart disease.
- Increased risk of joint pain and arthritis.
- 17. Differentiate between primary and secondary causes of obesity.

#### Answer:

• **Primary Causes**: Unhealthy diet, sedentary lifestyle, overeating.

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- **Secondary Causes**: Hormonal disorders (e.g., thyroid imbalance), genetic factors, certain medications.
- 18. List three effective strategies for obesity prevention.

#### Answer:

- Balanced diet with portion control.
- Regular physical activity (at least 30 minutes daily).
- Limiting processed foods and sugary drinks.
- 19. How does obesity increase the risk of heart disease?

  Answer:
- Increases blood pressure, leading to hypertension.
- Raises bad cholesterol levels, causing artery blockage.
- Leads to insulin resistance, increasing the risk of diabetes.
- 20. Explain the importance of fiber-rich foods in weight management.

  Answer:
- Promotes satiety and reduces overeating.
- Improves digestion and prevents constipation.
- Helps in regulating blood sugar levels.

# Four-Mark Questions (10) with Answers

### **Chapter 5: Fever**

- 1. Explain the dietary management of fever and the role of nutrition in recovery.

  Answer:
  - **High-calorie diet**: To meet increased energy demands.
  - High-protein intake: Helps in tissue repair and prevents muscle loss.
  - Increased fluid intake: Prevents dehydration due to sweating and high temperature.
  - Soft and easily digestible foods: Avoids additional stress on the digestive system.
- 2. Describe the metabolic changes that occur in the body during fever.

  Answer:
  - Increased Basal Metabolic Rate (BMR): More energy is required to fight infections.
  - Increased protein breakdown: Leads to muscle wasting if not replenished.
  - Loss of fluids and electrolytes: Due to sweating and high temperature.
  - Impaired digestion: Leads to reduced appetite and lower food intake.

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#### Chapter 6: Diarrhea

- 3. What are the major causes of diarrhea, and how can it be prevented?

  Answer:
  - Causes:
    - Bacterial/viral infections (e.g., cholera, rotavirus).
    - Contaminated food or water.
    - Food intolerance (e.g., lactose intolerance).
  - o Prevention:
    - Maintain proper hygiene and wash hands before eating.
    - Drink clean and boiled water.
    - Avoid consuming contaminated street food.
- 4. Explain the role of Oral Rehydration Therapy (ORT) in the treatment of diarrhea.

#### Answer:

- o ORT helps replace lost fluids and electrolytes.
- Prevents severe dehydration, which can be life-threatening.
- o Contains **sodium**, **potassium**, **and glucose**, which aid in fluid absorption.
- Easily available and can be prepared at home with salt, sugar, and water.

#### **Chapter 7: Eating Disorders**

5. Differentiate between Anorexia Nervosa, Bulimia Nervosa, and Binge Eating Disorder.

#### Answer:

- Anorexia Nervosa: Characterized by self-starvation, extreme weight loss, and fear of gaining weight.
- **Bulimia Nervosa**: Binge eating followed by purging (vomiting/laxatives).
- Binge Eating Disorder: Frequent episodes of overeating without purging.
- 6. What are the psychological and physical effects of eating disorders?

  Answer:
  - Psychological effects: Depression, anxiety, low self-esteem, obsession with body image.
  - **Physical effects**: Extreme weight loss or gain, nutrient deficiencies, heart problems, weak bones.
  - Social effects: Withdrawal from social interactions, secrecy about eating habits.

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Long-term impact: Increased risk of organ failure and death if untreated.

#### **Chapter 8: Obesity**

- 7. Discuss the role of diet and physical activity in preventing obesity.

  Answer:
  - Balanced diet: Includes high-fiber foods, lean protein, and healthy fats.
  - **Portion control**: Avoid overeating and consuming excessive calories.
  - Regular physical activity: At least 30 minutes of moderate exercise daily.
  - Limiting processed foods: Avoiding high-fat, high-sugar foods reduces weight gain.
- 8. How does obesity contribute to the development of chronic diseases?

  Answer:
  - Type 2 Diabetes: Excess weight causes insulin resistance.
  - Heart Disease: Increased cholesterol levels lead to artery blockages.
  - Hypertension (High Blood Pressure): Excess fat increases the strain on the heart.
  - Joint Problems: Extra weight puts pressure on bones and joints, causing arthritis.
- 9. Explain the difference between primary and secondary causes of obesity.

  Answer:
  - Primary Causes:
    - Excess calorie intake and low physical activity.
    - High consumption of processed and sugary foods.
  - Secondary Causes:
    - Hormonal disorders (e.g., hypothyroidism).
    - Genetic predisposition to obesity.
    - Certain medications that promote weight gain.
- 10. Describe the behavioral and lifestyle changes needed for long-term weight management.

Answer:

- **Eating habits**: Consuming more fruits, vegetables, and whole grains.
- **Exercise routine**: Engaging in daily physical activities like walking, yoga, or gym workouts.
- Mindful eating: Avoiding emotional eating and eating only when hungry.
- Regular monitoring: Checking weight and BMI periodically to track progress.

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# **Glossary of Important Terms**

- 1. **Fever** ( ) Rise in body temperature due to infection or illness.
- 2. **ORS** ( ) Oral Rehydration Solution; used for dehydration.
- 3. **BMR** (**→**) Basal Metabolic Rate; energy used at rest.
- 4. **BMI** (1) Body Mass Index; measures body fat based on height and weight.
- 5. **Anorexia** (\sqrt{\infty} \equiv ) Severe food restriction due to fear of weight gain.
- 6. **Bulimia** ( simple eating followed by purging.
- 7. **Osmolarity** ( ) Solute concentration in a solution.
- 8. **HFSS** (\*\*) High Fat, Salt, Sugar; unhealthy food category.
- 9. **Diarrhea** (**a**) Frequent loose bowel movements.
- 10. **Dehydration** ( ) Loss of water and electrolytes from the body.

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