

LEED for Neighborhood Development (LEED ND)
Quiz #3 – Neighborhood Pattern and Design (NPD)

1. Which of these is a strategy for increasing connectivity?
 - A. large block size
 - B. Small block size
 - C. Increased on-street parking
 - D. Cul-de-sacs

2. To meet the requirements for NPD Prerequisite Walkable Streets new sidewalks on retail or mixed-use blocks must be at least
 - A. 4 feet wide
 - B. 6 feet wide
 - C. 8 feet wide
 - D. 10 feet wide

3. Which of these is the requirement for NPD Prerequisite Walkable Streets, Building-height-to-street-centerline ratio?
 - A. No less than 1 unit of building height to every 1.5 units of distance from façade to centerline.
 - B. No less than .5 unit of building height to every 1.5 units of distance from façade to centerline.
 - C. No less than 1.5 units of building height to every 1 unit of distance from façade to centerline.
 - D. No less than 1 unit of building height to every 2 units of distance from façade to centerline.

4. NPD Prerequisite Compact Development Case 1. Projects with Access to Quality Transit requires what minimum floor-area ratio (FAR) for nonresidential components located within the walking distances?
 - A. 12
 - B. 7
 - C. 0.50
 - D. 0.80

5. Which of these projects must meet the requirements for NPD Prerequisite Connected and Open Community, Case 1 Surrounding Connectivity?
 - A. No circulation network intersections within the project boundary and is ten acres or less in size.
 - B. No circulation network intersections within the project boundary and is six acres or less in size.
 - C. No circulation network intersections within the project boundary and is five acres or less in size.
 - D. No circulation network intersections within the project boundary and is twelve acres or less in size.

6. NPD Prerequisite Connected and Open Community, Case 2 Internal Connectivity requires projects to design and build the project such that its internal connectivity is at least
 - A. 140 intersections per square mile
 - B. 90 intersections per square mile
 - C. 1 intersection every 800 feet
 - D. 1 intersection every 500 feet

7. To meet walkable streets, new residential-only motorized parts of the circulation network within the project should be designed for a target speed of no more than
 - A. 15 mph
 - B. 20 mph
 - C. 25 mph
 - D. 30 mph

8. Which of these qualifies as clear glass?
 - A. Windows between 3 and 8 feet above grade
 - B. Low-E glass with at least 40% visible light transmittance (VLT)
 - C. Low-E glass with at least 60% visible light transmittance (VLT)
 - D. Windows facing the circulation network

9. A project has a residential density of 30 DUs/hectare (1 point) and a nonresidential density of 1.5 FAR (3 points). The project's residential floor area is 60% of the total, and nonresidential is 40%. How many points does the project earn for NPD Credit Compact Development?
 - A. 1 point
 - B. 2 points
 - C. 3 points
 - D. 4 points

10. Which of these is used to calculate the probability that any two randomly selected dwelling units in a project will be of a different type?
 - A. Area Median Income (AMI)
 - B. Simpson Diversity Index
 - C. Housing and Urban Development (HUD)
 - D. Qualified Census Tract (QCT)

11. A project with 350 studio and two-bedroom rental units will include a yet-to-be-determined number of units priced for households up to 60% of the area median income. According to the U.S. Department of Housing and Urban Development, the local AMI for a four-person household is \$99,000. What is the income of the target renter?
 - A. \$99,000
 - B. \$39,600
 - C. \$59,400
 - D. \$41,580

12. Which of these is a strategy to help to reduce a project's parking footprint?
 - A. Underground parking
 - B. Surface parking lots
 - C. Off-street parking spaces in front of the building
 - D. Ground-level garages

13. The result of using flat, dark surfaces of roadways, parking lots, and tarred rooftops that absorb and retain the sun's heat during the day and are slow to radiate it at night is known as
 - A. Emissivity
 - B. Heat Island Effect
 - C. Thermal Reflectance
 - D. Radiation

14. A project design team was asked by the owner to replace a black asphalt parking lot with grey pervious concrete in order to achieve Rainwater Management. What other environmental impact is reduced by this design change?
 - A. Heat island effect
 - B. Light Pollution
 - C. Daylight
 - D. Emissivity

15. Which of these design strategies should be considered when designing a walkable neighborhood to promote connectivity?
 - A. Limit culs-de-sac
 - B. Shade streets with trees
 - C. Provide benches
 - D. Create long blocks

16. For NPD Credit Transportation Demand Management which of these options is best for project sites located in areas with limited existing transit connectivity to external locations?
 - A. Transit passes
 - B. Unbundling of parking and parking fees
 - C. Vehicle sharing
 - D. Developer-sponsored transit

17. Which of these would meet the requirements for NPD Credit Access to Recreation Facilities?
 - A. 15,000 ft² sports club
 - B. 2-acre park with a baseball diamond
 - C. 5,000 ft² indoor swimming pool facility
 - D. 30,000 ft² shopping mall

18. Which of these meets the requirement for being a universal design feature?
 - A. Task lighting
 - B. Fixed height shelves
 - C. Motion-detector lighting
 - D. Carpeted bathroom

19. Which of these may be prohibited in front yards that face the circulation network?
 - A. Gardens
 - B. Greenhouses
 - C. Raised vegetable beds
 - D. Pots for growing herbs

20. Determine the minimum number of trees required for Neighborhood Pattern and Design Credit Tree-Lined and Shaded Streetscapes, Option 1. Tree-Lined Blocks if the total existing and planned block length within the project is 3500 lf.
 - A. 30
 - B. 35
 - C. 42
 - D. 70

21. The Neighborhood Pattern and Design Credit Tree-Lined and Shaded Streetscapes, Option 1. Tree-Lined Blocks requires projects to
 - A. Plant trees every 25 feet
 - B. plant trees every 50 feet
 - C. plant trees every 60 feet
 - D. plant trees every 100 feet

22. Which of these would meet the requirement for New school campuses within the project boundary for earning the Neighborhood Pattern and Design (NPD) Credit Neighborhood Schools?
 - A. Elementary School to be built on 4 acres
 - B. High School to be built on 20 acres
 - C. Middle School to be built on 15 acres
 - D. Combined Middle and High School to be built on 35 acres