



IP-LiDe 2013 examination test

Answers

1. Can the use of different types of white light influence the perception of atmosphere and price of a retail space?
 - a. No, only behaviour can be influenced with white lighting
 - b. Only the perception of atmosphere can be influenced**
 - c. Only the perception of price can be influenced
 - d. Both the perception of atmosphere and price can be influenced

2. Daylight in retail:
 - a. Has always been important
 - b. Has never been important
 - c. Has been important in different periods of time**
 - d. Has only been important until artificial light was invented

3. What are the 3 subsequent steps of the Trias Ecologica?
 - a. 1) use efficient lighting equipment, 2) maximize the use of daylight, 3) cover the energy demand as much with renewable energy as possible
 - b. 1) maximize the use of daylight, 2) use efficient lighting equipment, 3) cover the energy demand as much with renewable energy as possible
 - c. 1) maximize the use of daylight, 2) cover the energy demand as much with renewable energy as possible, 3) use efficient lighting equipment**

4. Mark all parameters that have an impact on the incoming amount of daylight in a space (notice that more than one answers may be correct)
 - a. Dimensions of the space
 - b. Window area**
 - c. The presence of a daylight sensor
 - d. Colours of the walls
 - e. Orientation of the windows**
 - f. Obstructions outside**
 - g. Glazing type**

5. When performing visual tests on the internet, how many observers are required to ensure the reliability of the results?
 - a. At least 30
 - b. At least 100**
 - c. At least 200
 - d. At least 350

6. What is, usually, the maximum level of luminance that can be displayed by a regular stereoscopic display device?
 - a. About 17 cd/m²
 - b. About 170 cd/m²**
 - c. About 1700 cd/m²
 - d. About 17000 cd/m²

7. Stroboscopic effect is connected with:
 - a. Reflected glare
 - b. Direction of light and shadows
 - c. Flashing light**
 - d. Double light (two sources with different color of light)

8. How much information from our environment we obtain through vision?
 - a. Approximately 10 % to 30 %
 - b. Approximately 30 % to 50 %
 - c. Approximately 50 % to 70 %
 - d. Approximately 70 % to 90 %**

9. How many degrees does the angle of the sun change in an hour.
 - a. 1 deg
 - b. 15 deg**
 - c. 50 deg

10. Polymer Optical Fibers are made out of
 - a. Acrylics**
 - b. Mineral glass
 - c. Liquids

11. The efficacy of LEDs is
 - a. Constant at any conditions
 - b. It depends on the size of the LED
 - c. The temperature affects it**

12. Electrical artificial lighting absorbs every year
 - a. More than 16-19% of world's electricity**
 - b. Less than 16-19% of world's electricity
 - c. It is negligible

13. Which of the following isn't an immediate impact of the daylight control?
- a. Reduction of the function of HVAC.
 - b. Reduction of the installed power.**
 - c. Reduction of the energy consumption.
 - d. Increase of the visual comfort.
14. A luminaire emits 500 lm only upwards. The luminaire is installed in the geometrical center of a room (10m X 10m X 2m) with black coloured walls, ceiling and floor. How much is the illuminance on the floor underneath the luminaire?
- a. 0 lux**
 - b. 5 lux
 - c. 50 lux
 - d. 500 lux
15. What happens when the focal distance of a camera lens becomes larger? (notice that more than one answers may be correct)
- a. Objects appear closer**
 - b. Objects appear farther
 - c. Background appears smaller**
 - d. Background appears larger
16. Which of the following is not a topological characteristic of a digital three dimensional object?
- a. Point
 - b. Line
 - c. Segment
 - d. Angle**
17. *Bonus question:* What will you remember most from Greece (you may select more than one answers)
- a. Sun (... including 40°C days)
 - b. Food (... ouzo, souvlaki, tzatziki etc.)
 - c. Long nights (... for reading of course)**
18. *Bonus question:* Vote the MVP person of the summer school
- a. Lampros Doulos**
 - b. Costis Bouroussis
 - c. Grigoris Kyriakopoulos



GOOD LUCK !!!