

**חידון המדע הירושלמי תשס"ח - Jerusalem Science Contest 2008-2009**  
**Electromagnetic and Ionizing radiation**  
**Exam 13 - Judaica Lecture - Spiritual Light**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Raw Score: \_\_\_\_\_

Percentage Score: \_\_\_\_\_ %

Proctor for this Examinaton: \_\_\_\_\_ Form: \_\_\_\_\_

Choose the best answer

**All Questions are based upon the interpretation of Malbim, as discussed in the lecture.**

- 1) Sunlight, אור שכלי, אור מוגשם, אור  
A) scriptural, scientific, kabbalistic  
B) bright, dark, intelligent  
C) Most spiritual to most physical  
D) Most physical to most spiritual
  
- 2) Which of the following was not associated with a physical light source.  
A) אור מוגשם in the physical world  
B) Sun light in the עולם השכל.  
C) Sun light on the first day of creation  
D) Sun light on the fourth day of creation.
  
- 3) Who was wearing something as if it were a cloak?  
A) Rabbi Shimon  
B) Rabbi Shmuel  
C) Malbim  
D) God
  
- 4) אור ויהי refers to  
A) Moon light  
B) אור מוגשם  
C) אור שכלי  
D) Sun light
  
- 5) Creation of 'something from nothing' is indicated only by the term..  
A) בראשית  
B) ויאמר  
C) ויהי  
D) None of the above

- 6) What terminology indicates that God used an existing form to create something new?
- A) ויבדל
  - B) ויהי
  - C) ויקרא
  - D) ויאמר
- 7) The existence of the verse 'עוטה אור כשלמה'
- A) Poetically describes the Sun's radiance
  - B) negates the need for a whisper
  - C) Cloaks the world in mystery
  - D) All of the above are correct
- 8) About what was Rabbi Shimon b. Yehotzadak amazed?
- A) The content of the response was unexpected
  - B) He was answered in a whisper
  - C) He showed no amazement
  - D) He had to shout his question
- 9) Not involving total destruction of the original form
- A) is the manner in which God created vegetation
  - B) is a kabbalistic way of saying 'reflection'.
  - C) is how light is distinguished from God's other acts of creation.
  - D) is denoted by the words ויהי כן
- 10) Let's say that a clock assigns numbers 1 through 24 to each hour of a day such that the first hour of any day starts at 01:00 and the last hour of the day starts at 24:00. On day five of Creation 09:00 in Chicago is 17:00 in Jerusalem. What time would it be in Chicago if on the second day of Creation it was 03:00 in Jerusalem?
- A) 11:00, second day of Creation
  - B) 19:00, first day of Creation
  - C) 03:00, second day of Creation
  - D) there is not enough information to calculate the time
- 11) A world of higher spiritual level than the עולם השכל?
- A) עולם המלאכים
  - B) there is no higher world
  - C) עולם העשייה
  - D) All of the above
- 12) When was it light all over the world?
- A) Each day from day four of creation and onward
  - B) All 24 hours of the first day of creation.
  - C) All 72 hours of the first three days of creation.
  - D) for 12 hours during each of the first three days of creation
- 13) Which of the following terms best indicates the existence of a non-visible light?
- A) ויאמר
  - B) ויבדל
  - C) ויקרא
  - D) ויהי כן

- 14) Based upon known physics, the properties of אור מוגשם would logically negate ....
- A) visible and non-visible light
  - B) Good and Evil
  - C) Dusk and Dawn
  - D) Day and Night
- 15) How do we know that light was created from nothing?
- A) Because everything else was made from light.
  - B) Because it was made on the first day.
  - C) Because of the words "ויהי אור"
  - D) Light was not created from nothing
- 16) Why was it necessary for אור מוגשם not to glow?
- A) it was not important for אור מוגשם to stop glowing.
  - B) to imitate the Sun
  - C) to be useful in time regulation
  - D) To start planetary rotation
- 17) What is a symbol of the cloak?
- A) It symbolizes God's imparting power to the Sun
  - B) It symbolizes the collors of the spectrum
  - C) It symbolizes the closeness of the אור מוגשם to the spiritual world
  - D) It symbolizes the closeness of the אור שכלי to the physical world
- 18) Why was it necessary to filter spiritual light.
- A) to make it usable on Earth
  - B) to remove the light's danger in a lower world
  - C) to allow perception by the senses
  - D) All of the above are correct
- 19) What differentiates אור מוגשם form אור שכלי?
- A) sensual perception
  - B) The terms are synonymous
  - C) One lights the whole world, the other only lights up half.
  - D) One radiates from God, the other from stars
- 20) What source indicated that creation should not be taught publicly?
- A) Calling the darkness night
  - B) Covering himself in a cloak
  - C) Separating the darkness
  - D) Whispering the answer
- 21) Why did God need to 'shut off' the glow immediately on the first day of creation?
- A) God did not shut off the glow immediately
  - B) To make a 12 hour night precede a 12 hour day
  - C) To distinguish it from אור שכלי
  - D) Earth could not withstand the power of the first glow.