

## second course exam

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### second course exam

3. 1- .....is consider as branch of physics, which deal with light its effect sources nature and its p \* 1 point

*Mark only one oval.*

- electromagnetic waves
- radiation
- irradiance
- Quantum optics
- optics

4. 2- Quantum optics treats light as a stream of particles called

\* 1 point

.....

*Mark only one oval.*

- photoelectric
- photon
- proton
- spark gap
- electric energy

5. 3-Yellow color have wavelength in range .....in nanometer \*

1 point

*Mark only one oval.*

- 650-800
- 600-650
- 550-600
- 400-500
- 450-500

6. 4-sensitivity of humanin eyes varies with wavelength, thus .....is most sensitive to violet colour and least sensitive to red colour.

\* 1 point

*Mark only one oval.*

- radiation
- photograph
- reflection
- deflection
- halo
- greenflash

7. 5- ....., mean that our eye fail to distinguish between them, \* 1 point  
if time interval between two light pluses be less than 0.1 second.

*Mark only one oval.*

- resolving power  
 persistence of vision  
 coherence  
 corpuscular  
 interferences

8. 6-when light goes from one medium to another its frequency remains \* 1 point  
.....but both the speed and wavelength.

*Mark only one oval.*

- unchange, change  
 change, unchange  
 constant, change  
 unchange , constant  
 low, large value

9. 7-if light passes through the medium partially then it is said to be \* 1 point  
.....

*Mark only one oval.*

- transparence  
 translucent  
 opaque  
 anisotropic  
 unidirectional beam light

10. 8- .....suggested that each point on the source of light acts as a center of distribution from which the waves spread out in all direction and direction propagation of light is perpendicular to the wave front. \* 1 point

*Mark only one oval.*

- newton
- Einstein
- Fizeau's method
- Maxwell
- Huygen

11. 9-the magnitude of electric field vector is..... as compared to magnetic field vector  $E=cB$ , where  $c$ =speed of light. \* 1 point

*Mark only one oval.*

- large
- smaller
- little large
- much large
- nearly constant

12. 10-The photons possess momentum this was proved by ..... \* 1 point

*Mark only one oval.*

- Bohr
- Planck
- Compton
- Einstein

13. 11-In vacuum, speed of light depends upon..... \*

1 point

*Mark only one oval.*

- wavelength
- frequency
- colour
- non of above

14. 12-The eye is most sensitive to the light of wavelength..... \*

1 point

*Mark only one oval.*

- 555 m
- 555 Å
- $555 \times 10^{-9}$  m
- $555 \times 10^{-10}$  m

15. 13-The time taken by the light to travel a distance of 3 cm is.....

\* 1 point

*Mark only one oval.*

- $10^{-8}$  second
- $10^8$  second
- $10^{10}$  second
- $10^{-10}$  second

16. 14-The wavelength of the light of a laser beam can be used as a standard of \* 1 point

.....

*Mark only one oval.*

- time
- temperature
- none of the above
- length

17. 15-A star appears yellow. If it starts accelerating towards the earth, how will \* 1 point  
its colour appear to change ?

*Mark only one oval.*

- It will turn gradually red
- It will turn gradually blue
- It will turn suddenly blue
- It will turn suddenly red

Explain in short paragraph

18. (Question) Rainbows occur when rain is falling in one part of the sky, and \* 5 points  
the sun is shining in another. (explain how will be that happened)?

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