

MCAT

FULL LENGTH PAPER-5

AS PER UHS PATTERN

Total MCQs: 220
Max. Marks: 1100

Time Allowed: 150 Minute

PHYSICS

- Q.1** Typical source of γ -radiation used in medical treatment of cancer is
A) Strontium-94
B) Cobalt-60
C) Radon-222
D) All of these
- Q.2** Which expression could be correct for the velocity of ocean waves in terms of ' ρ ' the density of sea water, ' g ' the acceleration of free fall, h the depth of ocean and ' λ ' the wavelength
A) $\sqrt{g\lambda}$
B) $\sqrt{\rho gh}$
C) $\sqrt{\frac{g}{h}}$
D) $\sqrt{\frac{g}{\rho}}$
- Q.3** Time of the electron pulse given by a G.M. detector is about
A) 10^{-4} second
B) 10^{-5} second
C) 10^{-6} second
D) 10^{-6} minute
- Q.4** The dimension of $\frac{1}{\sqrt{\mu_0 \epsilon_0}}$ are
A) $[LT^{-1}]$
B) $[ML^{-1}T^{-1}]$
C) $[ML^2T^{-2}]$
D) $[MLT^{-2}]$
- Q.5** Some oils have about the same value of η whether hot or cold used as a lubricating oil are known as
A) Viscostatic
B) Viscous
C) Isotropic
D) Ideal fluid
- Q.6** A water sprinkler has 150 small holes each in area $2 \times 10^{-4} m^2$ and the water coming from the holes at the rate of $3 \times 10^{-3} m^3/s$. The speed at which the water coming out from the holes will be
A) 20m/sec
B) 5m/sec
C) 10m/sec
D) 25m/sec
- Q.7** In a two meter high tank a hole is created at the middle then speed of the efflux will be
A) 4.43m
B) 6.63m
C) 5.53m
D) 7.73m
- Q.8** Half life of iron-59 is
A) 45 days
B) 16 days
C) 8 days
D) 90 days
- Q.9** Colour of light having maximum speed in glass is
A) Blue
B) Yellow
C) Red
D) Same of all
- Q.10** The image formed by the objective of a compound microscope is
A) Real and enlarged
B) Virtual and diminished
C) Virtual and enlarged
D) Real and diminished
- Q.11** A 80 kg man receives whole body equivalent dose of 400 rem from neutrons whose relative biological effectiveness is 10. The total energy absorbed by the man is
A) 80 Joule
B) 32 Joule
C) 50 Joule
D) 10 Joule
- Q.12** Two coherent sources produce a dark fringe when the phase difference between interfering waves is
A) Zero
B) $n\pi$
C) 2π
D) $(2n - 1)\pi$, $n = 1, 2, 3, 4$

Mcat Sample Paper

Michal Rosen-Zvi



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