

SARDAR PATEL UNIVERSITY

First Year B.Physiotherapy Examination

Tuesday, Date 07-01-2014

Time 10:30 a.m. to 1:30 p.m.

Subject: **Bio-medical Physics & Computer Applications**

[MCQ]

TOTAL MARKS : 80

Candidate's Seat No. _____

SECTION –I (Marks 20)

Q-1 Select only single best answer of the following MCQ. Each question carries **ONE** mark.

1. Sliding friction is ----- than rolling friction.
(a) smaller (b) greater (c) same (d) infinite
2. The process in which heat is transmitted from one place to the other by the actual movement of the heated particles is called
(a) conduction (b) radiation (c) convection (d) none of these
3. The radiations which are absorbed by the reacting system are effective in producing chemical change is known as
(a) Grothus law (b) Kelvins law (c) Clausius law (d) Newtons law
4. Unit of water equivalent is
(a) gram (b) calorie (c) gram/cm³ (d) calorie/cm³
5. The reciprocal of wavelength is referred as
(a) acceleration (b) force (c) momentum (d) wavenumber
6. The density of water vapour at NTP is ----- than the density of dry air
(a) more (b) less (c) same (d) infinite
7. SONAR is an abbreviation of
(a) sound navigation and ranging (b) sound noise and ranging (c) source navigation and ranging (d) sound navigation and reflection.
8. Which of the phenomenon is not a part of lasing process
(a) optical pumping (b) population inversion (c) stimulated emission
(d) total internal reflection
9. How many nanofarad are equivalent to a farad ?
(a) 10⁻⁹ (b) 10⁹ (c) 10⁶ (d) 10⁻⁶
10. The unit of EMF is
(a) Volt (b) Farad (c) Henry (d) Joule

11. In cathode ray oscilloscope negatively charged particles emitted are known as
(a) positron (b) neutrons (c) electrons (d) protons
12. Semiconductor that are doped with donor atoms are considered to be
(a) N-type (b) O-type (c) P-type (d) D-type
13. The range of UV radiation in Å is
(a) 0.1 to 10 (b) 100 to 4000 (c) 6000 to 8000 (d) 4000 to 7000
14. Following material can be used for making light emitting diode
(a) Ge (b) Si (c) GaAsP (d) Diamond
15. Which one of the following is a supercomputer?
(a) PARAM (b) ENIAC (c) UNIVAC (d) EDVAC
16. BASIC, COBOL, FORTRAN, C++ etc., are examples of which language
(a) low level (b) high level (c) Medium level (d) Master level
17. Which of the following is not an operating system?
(a) UNIX (b) LINUX (c) FOX PRO (d) WINDOWS
18. One thousand bytes represent
(a) megabyte (b) kilobyte (c) gigabyte (d) femtobyte
19. .XLS is the file extension of an
(a) MS-word file (b) MS-excel file (c) MS power point file
(d) Ms-point file
20. A processor's speed is measured in
(a) Mega Hertz (b) Mega Bytes (c) Nanoseconds (d) character per second
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