Question Bank of K scheme -Basic Physics(311305) Unit test-1

Course:All

Academic year:- 2023-2024

Sem-1

Unit 1: Units & Measurements (CO1)

| 1) Is the branch of science deal with study o | f matter, energy | and their transform | ation in nature. |
|---|---------------------------------------|------------------------|------------------------|
| (a) physics (b)chemistry | (c) biology | y (d)ma | th |
| 2) is basically a source of communication in e | engineering and | science. | |
| (a)Measurement (b)accuracy | (c)unit | (d) counting | |
| 3) Necessity of measurement in science | | | |
| (a)To identify varies laws, To verify | varies laws | (b) number, A | Accuracy |
| (c) time, mass | ` ' | nent, development. | |
| 4) Necessity of measurement in engineering | | | |
| (a) Accurate prediction of physical quantit | | | |
| (b) Accurate prediction of chemical quant | | • | |
| (c) Accurate prediction of biological quan | · · · · · · · · · · · · · · · · · · · | • | |
| (d) Accurate prediction of mathematical of | • | • | |
| 5) The physical quantities which don't depend on any | - | | nt are called |
| (a)fundamental physical quantities | | | |
| (c) mathematical quantities | | - | |
| 6) The physical quantities which depend on any other | • | | |
| (a) fundamental quantities | ` ′ | rived physical quantit | ies |
| 1 | ` ' | nemical quantities | |
| 7) The unit of fundamental physical quantity is called | | | |
| | ` ' | t (c) magnit | ude (d) quantity |
| 8) The unit of Derived physical quantity is called | | | |
| (a) Derived unit (b) fundament | ntal unit | (c) magnitude | (d) quantity |
| 9) There are fundamental physical quantity | | | |
| (a)7 (b)6 | (c)5 | (d)8 | |
| 10) Length, mass, time arequantities | | 4) 5 | |
| (a) fundamental physical quantities | | (b) Derived physica | • |
| (c) mathematical quantities | | (d) chemical q | |
| 11) Electric current, thermodynamic temperature, Ar | mount of substa | • | * |
| (a) fundamental physical quantities | | (b) Derived physica | • |
| (c) mathematical quantities | | (d) chemical q | uantities |
| 12) are supplementary phy | | | (1) |
| | ength, time | (c)mass, current | (d) temperature, angle |
| 13).Unit of Mass in SI system is | (|) (1 | \ 1.1 |
| (a)Kilogram (b) second | (0 | e) ampere (d |) candela |
| 14) Unit of Time in SI system is | (a) I1 - /- | (4) 1/:1 | |
| (a) second (b) Newton | (c) Joule/s | (d) Kilogra | n- meter |
| 15) Unit of Electric current in SI system is | (a) Iaula/a | (d) Viloquan | |
| (a) Ampere (b) Newton | (c) Joule/s | (d) Kilogran | i- meter |
| 16) Unit of thermodynamic temperature in SI system | | a/a (d) Vil | arram matar |
| (a) Kelvin (b) Newton | (c) Joul | e/s (u) Kiid | ogram- meter |
| 17) Unit of Amount of substance in SI system is | | (d) dagga | |
| | steradian | (d) degree | |
| 18) Unit of luminous intensity in SI system is(a)Candela (b) radian | | (d) dagrag | |
| * / | (c) steradian | (d) degree | |
| 19) Unit of Plane angle in SI system is | | | |

| (a)Radian | (b) dyne | (c) steradian | (d) degree | |
|---|---------------------------------------|-----------------|---------------------------|---------------|
| 20) Unit of solid angle in SI system i | S | | | |
| (a)Steradian | (b)radia | n (c)dyne | (d)degree | |
| 21) Unit of area in SI system is | | | | |
| (a) square mete | er (b)me | eter (c) | ampere (d) tesla | |
| 22) The parameter used for calculating | ng weight of the r | nan is | • | |
| (a) Length (b) I | | | None of these | |
| 23) The quantity measured in Kelvin | ` ′ | () | | |
| | mass (c) | time (d) | temperature | |
| 24) The unit of acceleration in S.I. is | | | F | |
| (a) m/s | | (c) m/s^2 | (d) km/h^2 | |
| 25) The unit of force in C.G.S.is | ` ′ | (0) 111/5 | (4) 11111 11 | |
| (a) pound force (b) | | kg force (d) | dyne | |
| 26) Kilogram meter per second squar | | - , , | djile | |
| (a) force (b) | | vork (d) | velocity | |
| 27) The unit of work is | pressure (e) v | voik (u) | velocity | |
| (a) Newton-meter | (b) Newton (d | e) Ioule/s (d) | Kilogram- meter | |
| 28) The unit of plane angle is | (b) Newton (c |) Jouic/s (u) | Knogram- meter | |
| , | (b) radian | (a) staradian | a (d) dagraa | |
| (a) degree Celsius | * * | , , | i (d) degree | |
| 29) The length of the table is 3 meter | • | | da (d) assautitu | |
| (a) standard | * * | | de (d) quantity | |
| 30) Out of the fallowing which is not | - | | | |
| ` / | • | ` ′ | be universally accepted | |
| (c) it should be well | | | ld be fixed with time and | d place |
| 31) Very small time intervals are accordance (a) White dwarfs | uratery measure to (b) Quartz | | e) Atomic clocks | (d) Pulsars |
| 32) Theused for measurement o | ` / ~ | , | | (d) Tuisais |
| (a) Quantity (b) of | | | (d) standard | |
| 33) A quantity which can be measure | | | | |
| (a) Fundamental quantity | | | | |
| (c) physical quantity | (d) mechanic | al quantity | | |
| 34) Length of table is 3 meter. In this | example, 3 is the | e and | meter is the of the | nat quantity. |
| a) Magnitude, standa | ard b) number, A | ccuracy | | |
| c) standard, Magnitu | ude d) un | it, Magnitude | | |
| 35) Any measurement consist of two | parts | | | |
| a) Magnitude, stand | ard b) numbe | er, Accuracy | | |
| c) time, mass | d) measi | urement, develo | pment. | |
| 36) Which of the following units is a | fundamental unit | :? | • | |
| | |) lumen | d) joule | |
| 37) Which of the following units is a | | <i>'</i> | , 3 | |
| a) Mass b) wa | | | d) joule | |
| 38) Which of the following units is a | · · · · · · · · · · · · · · · · · · · | | | |
| - | |) lumen | d) joule | |
| 39) Which of the following units is a | | * | a) joure | |
| a) time b)watt | | | d)joule | |
| 40) Which of the following units is a | · · · · · · · · · · · · · · · · · · · | | d)jouic | |
| a) time b)watt | | | d)joule | |
| 41) Which of the following units is a | · · · · · · · · · · · · · · · · · · · | | адоше | |
| a) kilogram b)wat | | | d)joule | |
| 42) Which of the following units is a | | | ajjouit | |
| a) ampere b)watt | | | d)ioula | |
| 43) Which of the following units is a | , | | d)joule | |
| | | | dioula | |
| a) Kelvin b) watt | c) lun | 1011 | d)joule | |

| 44) Which of the following units is a fun | damental unit? | | |
|---|---|--|------|
| a) candela b)watt | c)lumen | d)joule | |
| 45) Which of the following units is a der | ived unit? | | |
| (a) meter (b) mole | e (c) ampere (| (d)watt | |
| 46) Which of the following units is a der | ived unit? | | |
| (a) mole (b) m | | (d)lumen | |
| 47) Which of the following units is a der | ` ' | | |
| (a) kilogram (b) seco | | (d)coulomb | |
| 48) Which of the following units is a der | ` ' | (d)coulomo | |
| , | meter (c) candela | (d) Henry | |
| * / | * * | (u) Hellry | |
| 49) Which of the following units is a der | | | |
| () | meter (c) ampere | (d) meter/second | |
| 50) Which of the following units is a der | | | |
| | meter (c) ampere | e (d) Newton | |
| 51) Which of the following units is a der | ived unit? | | |
| (a) second (b) r | meter (c) ampere | (d) ampere/meter | |
| 52) Which of the following units is a der | ived unit? | | |
| (a) second (b) r | meter (c) ampere | (d) meter/second square | |
| 53) Which of the following units is a der | ived unit? | • | |
| , | meter (c) ampere | (d) kilogram-meter/second | |
| 54) Which of the following units is a der | ` ' • | () 2 | |
| (a) candela (b) m | | (d) candela/square meter | |
| 55) Which of the following units is a der | ` ' - | (d) candela/square meter | |
| , | | (d) toolo | |
| (a) candela (b) m | neter (c) ampere | (d) tesla | |
| 50 WH: 1 Cd CH : | . 1 | | |
| 56) Which of the following units is a der | | | |
| (a) candela (b) m | ` / - | (d) candela/square meter | |
| 57) Which of the following the fundamen | - | (D | |
| , , <u> </u> | (b) speed (c) mas | ss (d) time | |
| 58) Out of the following the fundamental | | | |
| ` / | | e) momentum (d) time | |
| (a) Fundamental quantity | one or more rundamenta (b) derived qua | al quantities for their measurement is called as | •••• |
| (c) MKS quantity | (d) CGS quanti | • | |
| 60) Which of the following is not a funda | · / | ity | |
| , | (b) kilogram | (c) Newton (d) second | |
| 61) Out of the following the derived unit | | (4) 20014 | |
| , | (b) kilogram | (c) Newton (d) joule | |
| 62) Pascal is the S.I. unit of | | \ | |
| (a) force | (b) pressure | (c) density (d) momentum | |
| 63) The system of units which are in use | are | | |
| a) C.G.S., M.K.S., P.S.T. | | (b) C.G.S., M.K.S., V.I.T. and S.I. | |
| (c) C.G.S., M.K.S., P.S.7 | Γ. and F.I. | (d) C.G.S., M.K.S., F.P.S. and S.I. | |
| 64) MKS means | | | |
| | (b) milli-kilo-s (c) m-l | | |
| 65) In M.K.S. system, the units of length | | | |
| (a) millisecond, kilohert | | (b) meter, kilogram and second | |
| (a) millisecond, kilobyte 66) CGS means | e and second | (b) mile, kilogram and second | |
| | (b) cm-g-sec (c) ca | alorie-g-sec (d) cm-grade-sec | |
| (a) calone grade see | (b) cm g see (c) cd | alone g see (a) on grade see | |
| 67) The units of length, mass and time a | re centimeter, gram and | I second which are used in the system. | |
| · · | (b) M.K.S. (c) F.P. | · · · · · · · · · · · · · · · · · · · | |
| 68) FPS means | | | |
| , | | | |
| (a) ft-lb-s | (b) farad-Pico-s | (c) femto-pound-s (d) foot Pico-s | |

| (a) 10^6 Hz | (b) 10^3 Hz | (c) 10^{12} Hz | (d) 10^9 | Hz | |
|---|---------------------------------------|--------------------------|------------------------|--------------------------|------------------------|
| 70) 1 millimeter means | | | | | |
| * * | (b) 10^{-3} m | (c) 10^{-6} m | (d) 10^{-9} | m | |
| 71) 10- ⁶ meter means | | | | | |
| (a) 1mm 72) 1 nanometer equals to | (b) 1 cm | (c) 1nm | (d) 1um | 1 | |
| | (b) 10^{-6} m | () 10 3 | (1) 10 1 | | |
| | | | | m | |
| 73) The SI unit of intensity is (a) ${}^{0}c$ (b) ${}^{0}k$ | (c) 0 F | (d) ca | alorie | | |
| 74) The SI unit of luminous intensity is (a) ampere (b) flux | · · · · · · · · · · · · · · · · · · · | , | | | |
| (a) ampere (b) flux | (c) can | dela (d) W | /eber | | |
| 75) The SI unit of amount substance is_ (a) Gram 76) The SI unit of a list and a list. | (b) candela | (c) kilogram | (d) mole | e | |
| 76) The SI unit of solid angle is(a) degree | | | | ~ | |
| (a) degree 77) The SL unit of temperature gradient | (b) radian | (c) steradian | (d) degr | ee Celsius | |
| 77) The SI unit of temperature gradient (a) 0 c/m | 0, | 01 | (4) 0 2/2 | | |
| (a) c/m 78) The unit of area in M.K.S. system is | | (c) m/ k | (a) c/c | m | |
| (a) hectare (b) met | ter square | (c) guntha | (d) squa | are feet | |
| 79) centimeter per second is the unit of | | (a) M V C av | estama (d) (| | |
| (a) S. I. system (b) F.P. 80) The dimensions of a physical quant | | | | | in the unit of a given |
| Physical quantity (a) scales calibrated | (b) system, sca | led (c) po | owers, raise | ed | (d) false |
| 81) To decide dimensions of a physical | quantity, the uni | t of time is exp | ressed by | | (4) -11-2 - |
| (a) 'S' (b) 'l' 82) Dimensional formula for 'area' is | (c) 'M' | ' (d) 'T | , | | |
| (a) $[L^2M^0T^0]$ (b) $[L^2M^0T^0]$ | | 2^{1} | $0_{M}0_{T}2_{1}$ | | |
| (a) [L M I] (b) [L 83) Dimensional formula for 'density' i | - ' ' - | M I] (a) [I | M I J | | |
| (a) $[L^1M^{-3}T^0]$ (b) $[L^{-3}T^0]$ | | $0_{\rm T}^{3}$ | $3_{M}1_{T}0_{1}$ | | |
| | | | | 1 2 | |
| 84) Out of the following which physical | quantity has dir | mensional form | ıula [L [*] M | [TT]? | |
| (a) force 85) The Dimensional formula for veloci | (b) acceleration | i (c) velocity | | (d) density | |
| (a) $[L^{1}M^{0}T^{1}]$ (b) $[L^{1}$ | | (c) $[L^{-1}M^{1}T^{0}]$ |) | (d) $[L^{1}M^{1}T^{-1}]$ | |
| 86) In the dimensional equation [L ^a ,M ^b | $[T^{c}]$ $[a,b,c]$ | are called | | | |
| (a) Dimensional formul | | | mensions | | |
| (c) basic quantities | | (d) derived | quantities | | |
| 87) $[L^{1}M^{0}T^{-1}]$ are the dimensions of the | e quantity | | | | |
| | (b) density | (c) sp | eed | (d) area | ı |
| 88) Dimensions ofand are same. (a) pressure, stress | (b) work, force | (c) ve | elocity acc | eleration | (d) Length, mass |
| 89) Error isin a given measurement. | ` ' | (c) vc | nocity, acc | Cicration | (d) Length, mass |
| | uracy | | | (d) certainty | |
| 90) The difference between true value a (a) error | nd measured val (b) precision | | | (d) accuracy | |
| 91)cannot be eliminated but the | ey can be minim | ized | | • | |
| (a) errors 92). An error caused due to faulty instru | (b) mistake | | | (d) precision | |
| (a) systematic error | | | ersonal err | or (d)const | ant error |
| 93). For less error, measurement is | /* \ | | | | |
| (a) more accurate | (b)less | accurate | | | |

| (c) constant accurate (d) both (a) | and (b) | |
|---|---|---|
| 94). What is the unit for measuring the amplitude of a sound? | ? | |
| (a) Decibel (b) Coulomb | (c) Hume (d) Cycles | |
| 95). One nanometer is equal to, | | |
| (a) 10^{-6} m (b) 10^{-8} m (c) 1 | $10^{-9} \mathrm{m}$ (d) $10^{-5} \mathrm{m}$ | |
| 96). One fathom is equal to | | |
| (a) 6 feet (b) 6 meters (c) |) 60 feet (d) 100 cm | |
| 97). Light year is a measurement of | · · · · · · · · · · · · · · · · · · · | |
| (a) Speed of airplanes (b) Speed of light | | |
| (c) Stellar distances (d) Speed of rockets | S | |
| 98). One kilometer is equal to how many miles? | | |
| (a) 0.84 (b) 0.5 | (c) 1.6 (d) 0.62 | |
| 99). 'Bar' is the unit of | | |
| (a) Temperature (b) Heat (c) At | tmospheric pressure (d)Current | |
| 100) Nautical mile is a unit of distance used in | • | |
| (a) Navigation (b) road mile (c) Ast | tronomy (d) Measuring the boundaries | |
| 101) How many dynes are there in 1 gram weight? | | |
| (a) 900 (b) 375 (c) 981 | (d) 250 | |
| 102) Joule is the unit of (a) Temperature | (b) pressure (c) Energy | У |
| (d) Heat | | |
| 103) how many ergs are in 1 Joule (a) 10^2 | (b) 10^4 (c) 10^6 (d) 10^7 | |
| 104) . Very small time intervals are accurately measure by | | |
| (a) White dwarfs (b) Quartz clocks | (c) Atomic clocks (d) Pulsars | |
| 105). Electric current is measure by | (c) Home closis (a) Laisurs | |
| · · · | (a) Ammeter (d) Weltmeter | |
| (a) Commentator (b) Anemometer | (c) Ammeter (d) Voltmeter | |
| 106). One horse power is equal to | | |
| (a) 746 watts (b) 748 watts | (c) 756 watts (d) 736 watts | |
| 107). Kilowatt is a unit to measure | | |
| (a) Work (b) Power (c) Electric | city (d) Current | |
| 108). Kilohertz is a unit which measures | | |
| (a) Power used by a current of one ampere | (b) Electromagnetic radio wave frequencies | |
| • | · · · | |
| (c) Voltage 109). One Joule is equal to | (d) Electric resistance | |
| (a) 10^2 ergs (b) 10^4ergs (c) 10^6ergs | (d) 10 ⁷ ergs | |
| 110). Fathom is the unit of | (d) 10 eigs | |
| <i>'</i> | E (ND: | |
| () | Frequency (d)Distance | |
| 111) Light year is a unit of | | |
| (a) time (b) distance | (c) sunlight intensity (d) mass | |
| 112). The dimensional formula for Planck's constant is | | |
| (a) $[MLT]$ (b) $[ML^2T^{-1}]$ | (c) $[M^2L^2T^{-1}]$ (d) $[ML^1T^{-1}]$ | |
| 113). The surface tension of a liquid is 70 dyne/cm. In MKS s | () [] | |
| a) 70 N/m (b) 7×10^{-2} N/m | (c) $7 \times 10^2 \text{ N/m}$ (d) $7 \times 10^3 \text{ N/m}$ | |
| , | $(c) / \times 10^{-10/11} \qquad (d) / \times 10^{-10/11}$ | |
| 114). The dimensions of Kinetic energy is same as that of | | |
| (a) Force (b) Pressure | c) Work (d) Momentum | |
| 115). At 4° C, the density of water is equal to | | |
| (a) $10^{-3} \text{ kg m}^{-3}$ (b) $10^{-2} \text{ kg m}^{-3}$ | (c) 10 kg m^{-3} (d) 10^3 kg m^{-3} | |
| 116). One watt hour contains how many joules? | | |
| (a) $3.6 \times 10^8 \mathrm{J}$ (b) $3.6 \times 10^2 \mathrm{J}$ | (c) $3.6 \times 10^3 \text{J}$ (d) 10^{-3}J | |
| | | |
| 117). Which of the following pairs has the same dimensions? | | |
| (a) Specific Heat and Latent Heat | (b) Impulse and Momentum | |
| (c) Surface Tension and Force | (d) Moment of Inertia and Torque | |
| 118). Electron volt is a unit of | | |
| (a) Charge (b) Potential difference | (c) Energy (d) Magnetic Force | |
| 119). There are 20 divisions in 4 cm of the main scale. The ve | ., ., ., . | |
| | | |

| count of the instrume | ent is | | | | | |
|--|---|-----------------|-------------------------|---------------|-----------------------|----------------|
| (a) 0.05 cm | (b) 0.5 cm | | (c) 5.0 cm | | (d) 0.005 cm. d) 0 | |
| 120). [ML ⁻¹ T ⁻²] is the dimen | sional formula of | | | | | |
| |) coefficient of frict | | (c) modulus o | of elasticity | (d) energy | |
| 121) The dimensional form | ula of coefficient of | viscosity is | | | | |
| (a) $[MLT^{-1}]$ | (b) $[M^{-1}L^2T^{-2}]$ | | (c) $[ML^{-1}T^{-1}]$ | | (d) none of these | |
| 122). On the basis of dimen | | | | | found, is | |
| (a) one | (b) two | (c) three | (d) 1 | four | | |
| 100) IC 4 1 C 1 4 | C 1 E : 1 4 | | 1 '4 41 6 | 1 . 41 | ·· | |
| 123). If v stands for velocity | of sound, E is elasti | icity and d the | density, then fir | nd x in the e | quation | |
| $v = (d/E)^x$ | (L) 1/ | (a) 2 | (| J) 1/2 | | |
| (a) 1 124). The multiplication of | (b) ½ 10.610 with 0.210 w | (c) 2 | | d) -1/2 | | |
| (a) 2.2281 | (b) 2.228 | (c) 2.2 | | _ | | |
| 125). The S.I. unit of univer | ` ' | (C) 2.2. | 2 (u) 2 | .2 | | |
| (a) Watt K-1mol-1 | (b) N K-1 | mol-1 | (c) IK-1 | mol-1 | (d) erg K-1mol-1 | |
| 126). Dimensional formula | | | (0) 011 1 | | (4) 418 11 111101 1 | |
| | (b) $ML^2T^{-2}\theta^{-4}$ | (c)] | $ML^2T^{-2}\theta^{-1}$ | (d) MLT | $^{-3}\theta^{-1}$ | |
| 127). Three measurements 7 | . , | | | () | | |
| of significant figures | | 1 | | | | |
| (a) 7.1 J | (b) 7.06 J | (c) 7.0 | J | (d) 7J | | |
| 128). Substances which larg | ger masses are usually | y measured in | | | | |
| (a) Kilograms | (b) gran | | | (d) metr | ric tones | |
| 129). An instrument which § | | | | | | |
| (a) electronic stopwato | ` / | lock | (c)pendulum | clock | (d)hour glass | |
| 130). In SI system unit of ar | | | | | | |
| | b)square | | | (d)meter | | |
| 131). A single system on wh | | | | | | |
| | International System | | | | versai system | |
| 132). Electronic stop watch (a) 0.01s | (b) 0.1s | (c)0.10s | (d)1s | acy up to | | |
| 133). An average speed of ar | < / | | (d)15 | | | |
| (a)300m/s | (b)100m/s | (c)500m/s | | (d)50m/s | | |
| 134). Unit of Force is Newto | | (0)300111/3 | | (d)50111/5 | | |
| (a)N | (b) F (c) A | Λ (d) |)G | | | |
| 135). If symbol of unit is a c | | | | (| (a) small case letter | (b)capital |
| letter (c) italic lette | | | | | | |
| 136). To change SI units by | ten into smaller or bi | gger units they | uses | | (a) prefixes | (b)suffixes |
| (c) symbols (d) ra | | | | | | |
| 137). Mercury thermometer | | | | | | |
| (a) time | (b) length | (c)temp | | (d)pressure | | |
| 138). First made instrument | | | • | | | |
| (a) sundial | | (c)stop wat | tch | (d)pend | dulum clock | |
| 139). In SI system unit for s | * | (a)ma | tor/b ove | (4)1m | m/aaa | |
| (a) meter | (b)meter/sec ective and precise of | | ter/hour | (d)kr | (a) qualitative | (b) |
| , | * | | • | | rument to measure le | ` / |
| laboratory is a (a) meter rule | , | · • | · · | h a and b | (d) vernier caliper | |
| 142). Higher speed is seen in | | or ruici | (6) 800 | ii a aiia o | (a) vermer camper | |
| (a) faster moving of | | ver moving obj | ect | | (c)co | onstant moving |
| object (d)still obje | - | | | | (-) | 8 |
| 143). An average speed is ed | | which is trave | lled divided by | | | |
| (a) taken time | (b)speed limit | (c)directio | • | a | | |
| 144) T. Cl. 1 | 1 | | | | | |
| 144). Types of balance inclu | | lanca (a) | both a and b | (d)notimal L | volonos | |
| (a) beam balance 145). In old days methods o | (b)electronic ba | iance (c) | both a and b | (d)natural b | paratice | |
| · · · · · · · · · · · · · · · · · · · | o)correct (c)accura | ite (d)nerfect | | | | |
| (1)111111111111111111111111111111111111 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (a)portoct | | | | |

146).In our everyday life activities, we need

| | (a) estimations (b) accurate measurements (c) both a and b (d) appearances | |
|----------|---|----|
| 147). | For very short intervals we mostly use | |
| | (a)stop clocks (b) stop watches (c)both a and b (d)wall clocks | |
| | Apparatus commonly used to measure volume of liquids is (a) measuring cylinder (b)measuring tapes | |
| (c) jaı | (d) cylinder149). Standard meter is defined as distance which is travelled by light in 1/299792458 of a | L |
| | second through (a)vacuum (b) space (c) air (d) water | |
| 150). | Hour glass was used in past days to know | |
| | (a)time (b)length (c)mass (d)volume | |
| 151). | Sonya is tall is observation which is | |
| | (a)qualitative (b) quantitative (c) both a and b (d)respective | |
| 152). | Length of distance which is covered in specific time is called | |
| -)- | (a) distance (b) displacement (c) speed (d) force | |
| 153) 9 | Special feature of a Vernier caliper is that it can measure up to (a).0.1mm (b)1mm (c)2r | nm |
| 100) | (d)0.10mm154). Sum of amount of matter in a substance is called its | |
| | (a) mass (b) weight (c) length (d) volume | |
| 155) | Amount of 1 liter contains | |
| 133). | (a) 100ml (b) 1000ml (c) 10mm (d)10kg | |
| 150) | 10,000 m/sec is speed of a | |
| 130). | | |
| 150) 1 | (a) aero plane (b) rocket (c) satellite signal (d) car | |
| 139).1 | Kilo means in SI is one | |
| 1.60) 5 | (a) thousand (b) hundred (c) ten (d) million | |
| 160) | The errors due to sudden change in experimental conditions are called | |
| | (a) instrumental errors (b) systematic errors | |
| | (c)random errors (d) force errors | |
| 161). | Smallest division which is found in a measuring tape is | |
| 101). | (a) 1mm (b) 10mm (c) 5mm (d) 0mm | |
| 162) | To measure shorter distances or lengths one can use | |
| 102). | (a) meter ruler (b)half meter ruler (c)both a and b (d)Vernier caliper | |
| 163) | Km are used to measure | |
| 105). | | |
| 164) | (a) shorter distance (b)longer distances (c)toys (d)bottles In equation form speed is written as | |
| 104). | * * | |
| | (a) time=distance/speed (b)distance=speed*time | |
| 1(5) | (c)speed=distance travelled/time taken (d) all of them | |
| 165). | Metric system is a system which is standard of | |
| 1(() 1 | (a) measurement (b) living things (c) experimenting (d) analysis | |
| 166).1 | Instrument which can be used to measure length includes | |
| 1.65 | (a) measuring tapes (b) meter ruler (c) Vernier caliper (d) all of them | |
| 167). | Vernier caliper helps in measuring | |
| | (a) external diameter (b)internal diameter | |
| | (c) thickness and depth of narrow tubes (d) all of them | |
| 168). | Error which is most common in measurements is due to wrong placement of eye while taking readings is called | |
| | (a) parallax error (b)eye error (c)common error (d)free error | |
| 169). | Volume of liquids can be measured by using different instruments which includes | |
| | (a)cylinders (b)volumetric flasks (c)burettes or pipettes (d)all of them | |
| 170). | Road signs like 50 km/h are warning to drive in given | |
| | (a)area (b)speed limit (c)direction (d) distance | |
| 171). | In SI system unit of volume is | |
| | (a) meter square (b) cubic meter (c)meter (d)kilometers | |
| 172). | To measure shorter lengths with their accurate reading we use | |
| | (a) measuring tapes (b)meter ruler (c)Vernier caliper (d)all of them | |
| | | |
| 173). | Kilogram standard is kept in France which is a metal cylinder made of | |
|) . | (a) platinum (b)iridium (c)both a and b (d)iron | |
| 174) | To measure mass instrument used is a | |
| -, .,. | (a)balance (b)cylinder (c)weight machine (d)flask | |
| 175) | Distances up to several hundred meters are measured by help of a | |
| ± 10 j. | (a)measuring tapes (b)meter ruler (c)Vernier caliper (d)all of them | |
| 176) | 0.1mm is accuracy of a | |
| · / U]. | (a)measuring tapes (b)meter ruler (c)Vernier caliper (d) a and b | |
| | (a) remousaring tapes (b) meter rater (c) verifier camper (a)_a and b | |

| 177). In physics, a common instrument to measure (a)Rule (b)measuring tape | | circle is known as (d)inch tape | |
|---|--------------------|---------------------------------|-----------------------------|
| 178). A physical quantity consists of a | | | |
| | b)Numerical m | agnitude | |
| | d)Symbolic Ma | ~ | |
| 179). Range of Vernier calipers is | ()~ } | 8 | |
| (a)1 cm to 10 cm (b)1 cm to 5cm (| c)1 cm to 6 cm | (d)1 cm to 2 | 0 cm |
| 180). Precision of micrometer screw gauge is | c)i ciii to o ciii | (d)1 cm to 2 | O CIII |
| (a)0.1 cm (b)0.01 mm | (c)0.1 mm | (d)0.01 m | |
| 181). Range of measuring tape is | | | |
| (a)1 meter (b) several meters | (c) two meters | (d)half me | eter |
| 182). Precision of Vernier calipers is | | | |
| (a)1 mm (b)1 cm (c)0 | 0.1 mm | (d)0.1 cm | |
| 183). Minimum length an instrument can measure (a)accuracy (b)estimate (c) | | (d)limitations | |
| 184). SI unit for length is | 71 | | |
| (a)centimeter (b)inches (| (c.)meter | (d)vards | |
| 185). The symbol to represent "Amount of Substa | | | |
| (a)A (b)K (c)cd | | <u> </u> | |
| | | | |
| 186). Quantities other than base quantities are terr | | | |
| (a)Derived quantities (b)Base quantities | | | |
| 187). The reference standard used for the measure | ement of a physi | ical quantity is call | led |
| (a) standard quantity (b) dimens | | | (d) unit |
| 188). Which of the following is NOT a characterist | | | (4) 14 ::1-1-1- |
| (a) It is invariable. (b) It is reproduc | ible. (c) it | is perisnable. | (a) It is easily available. |
| 189). Units are classified into groups. (a) 2 (b) 4 (c) 5 | (d) 6 | | |
| 190). A set of fundamental and derived units is kn | | | |
| (a) supplementary units (b) syst | | _* | |
| (c) complementary units (d) met | ric units | | |
| 191). The physical quantity having the same unit | | ns of unit is | |
| (a) length (b) time (c) mas | - | | |
| 192). S.I system of unit contains suppler | | | |
| (a) 7 (b) 2 (c) many (d) 4 | | | |
| 193). In which of following system, scientific data | | - | - |
| (a) M.K.S. (b) C.G.S. | (c) F.P.S. | (d) S | .I. |
| 194). Out of the following units, which is NOT a | | | |
| (a) newton (b) second | (c) pound | (d) kg | |
| 195). Temperature can be expressed as a derived of | | s of | |
| () | and time | | |
| (c) length, mass and time (d) none 196). Which of the following is NOT a derived us | | | |
| (a) joule (b) erg (c) dy | | d) mole | |
| 197). Which of the following is the CORRECT w | | . / | |
| (a) 25 ms length (b) 30 Kg | | e) 5 Newton | (d) 10 N |
| 198). To measure the distance of a planet from the | | | (d) 10 11 |
| (a) echo (b) direct (c) parall | | | |
| 199). The mass of the body depends only on | () 1 | | |
| (a) temperature | (b) pres | ssure. | |
| (c) quantity of matter contained in the boo | dy. (d) locati | ion of the body fr | om the observer. |
| 200) Which of the physical quantity remains same | e for all unit sys | tem? | |
| (a) meter (b) second (c) am | pere (| d) kilogram | |
| 201) Which type of errors cannot be controlled? | | | |
| | b)Experimental | | |
| · · · | (d) Systematic e | rrors | |
| 202) How to minimize the errors in the measurem | | 1 | |
| (a) Taking a large magnitude of the quanti | ity to be measur | red | |

| | 1.0 1.4 | 1 | |
|--|------------------------------------|--|---|
| (b)taking large number of reac (c) Using an instrument whos | - | alue | |
| (d) All of the above | c least count is sman | | |
| 203) The ratio of mean absolute error i | n the measurement of pl | nysical quantity to mear | n value is called |
| (a) absolute error | (b) relative er | | |
| (c) random error | (d) experimen | | de la callad |
| 204) A figure which is of some signification (a) significant figure (b) | | essarily denote a certail (c)numbering figure | (d) decimal figure |
| (,) | • | | · , , |
| 205) The mass and volume of a plate a (a) 1.688kg/m ³ (b) 1.69kg/ | • | | • |
| 206) Which of the following is unit of | ` / | (0) 11003 0 118 | |
| (a) lunar month (b) kelvin | | ` ' | light year |
| 207) Systametic error occured due to p | | | ted by |
| (a) taking several readings | (b) replacing i | | |
| (c)taking mean values | (d) taking med | | |
| 208) Error that occurs due to equally a: (a) random error (b) sys | | | precision |
| 209) The percentage error in the distan | | quent error (u) p | recision |
| (a) 5% (b) 6% | (c)8% (d) 20% | | |
| 210) In an experiment to determine the | • | | |
| • | - | • • | rror in the determination of its density? |
| (a) 2.75% (b) 1.75% 211) Which of the following numerical | (c) 0.75% value have significant t | (d) 1.25% | |
| (a) 1.011 (b) 0.010 | (c)0.001 | (d) 0.100 | |
| 212) What is the number of significant | | | |
| (a) 2 (b) 7 213) The area of a rectangle of size 1.2 | (c) 3 | (d) 4 | |
| (a) 2.80625 cm^2 (b) 2.83 | • | • | 2 cm ² |
| 214)The significant figures in 500.500 | ` / | (#) =1000 | |
| (a) 5 (b) 3 | (c) 7 | (d) 6 | |
| 215) Addition of measurement 15.225 (a) 25.43 cm (b) 25.4 cr | | - | 5.4350 cm . |
| 216) The measured value of a resistance | ` / | ` ' | |
| error of the measurement? | | | |
| · / | ` ' | ` ' |) 10.26 ohm. |
| 217)The multiplication of 10.610 with (a) 2.2281 (b) 2.22 | • | | IS |
| 218)The ratio of average absolute error | | | |
| a)Average absolute error | b)Absolute error | c)Relative error | d)Relative error |
| 219) Same person may get different rea | ndings because of human | n limitations,this comes | under, |
| a)Instrumental error | b)Constant error | c)Random error | d)Personal error |
| 220)Out of the following ,the most acc | urate instrument is, | | |
| a)Measuring tape | b)Meter scale | c)Vernier caliper | d)Micrometer screw gauge |
| 221)A significant figure is defined as a | figure in any place whi | ch is reasonably | |
| a)Non considerable | b)Meaninigless | c)Not important | d)Meaningful |
| 222) A figure which has some significa | ance but it does not nece | ssarily denote a certain | ty is called, |
| a)Significant figure | b)Basic figure | c)Numbering figure | d)Decimal figure |

| 223)The digits 1,2,3,4,5,6,7,8 | 3,9 are | | | |
|-----------------------------------|--|----------------------------------|---|-----------|
| a)Not significant | b)Sometimes Signifi | cant c)Always sign | nificant d) All of the above | |
| 224) If distance between Mu | mbai to Pune by train is | 90.5km,in this, zero is | | |
| a)Not significant | b)Significant | e)May be significant | d)May not be significant | |
| 225) The number of significa | nt figure in measuremen | at of 2.34 X 10 ¹¹ | | |
| a)1 b)2 | c)3 | d)4 | | |
| 226) 200μF is equal to | | | | |
| a)200X10 ⁻⁹ F | b)200X10 ⁶ F | c)200X10 ⁻⁶ F | d)200X10 ⁹ F | |
| 227) 2000pF is equal to | <u>_</u> . | | | |
| a)2000X10 ⁶ F | b)2000X10 ⁻⁶ | c)2000X10 ⁹ F | d)2000X10 ⁻¹² F | |
| 228) Length of the table is 3 | m. Convert this into mm | | | |
| $a)3\times10^{-3}$ mm | b)3×10 ³ mm | $c)3\times10^{-2}$ mm | $d)3\times10^2$ mm | |
| 229) 220cm is equal to | | | | |
| a) 220×10^{-2} m | b)220×10 ² m | c)220×10 ³ m | $d)220 \times 10^{-3} m$ | |
| 230) 10 ⁻⁶ meter means | | | | |
| a)1mm | b)1cm | c)1nm | d)1µm | |
| 232) was the one of | Planet c)Sun the popular Indian astro | d) Moon. nomer and Mathematician | | |
| 233) developed and | designed many astronon | nical instruments. | | |
| a) Charudatta | b) Ram Dass | c) Bhaskaracharya | d) Rohidas | |
| 234) Bhaskaracharya wrote a | book named | in which he recorded | astronomical observations. | |
| a) Yayati b) | Mrutunjay c) S | Siddhānta-Śiromani | d) Jayant Narlikar | |
| 235) recorded very of more. | reditable observations li | ke earth is a sphere and no | ot flat, earth rotates around sun and mu | ıch |
| a) Ancient Indian Navy | b) Ancient Indian | experts c) Ancient | Indian soldier d) Ancient officer | |
| 236) which me | eans disk machine. | | | |
| a) Dhanu Yantra | b) Chakra Yantra | c)Yasti Yantra | d)Phalak Yantra | |
| 237) inst | rument is a type of protr | ractor used for angular ma | rking of land and angular positioning of | of cities |
| a) Dhanu Yantra | b) Chakra Yantra | c)Yasti Yantra | d)Phalak Yantra | |
| 238)was also | used to measure time an | d to measure some astrolo | ogical parameters like 'natta' and 'unnat | tta'. |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra | |

| 239) is a ring ins object | trument which measures | the global co-ordinates of d | eclination and the hour angle of a celestial |
|-------------------------------|----------------------------------|--------------------------------|--|
| a) Yasti Yantra | b)Phalak Yantra | c) Dhanu Yantra | d) The Chakra Yantra |
| 240)was use | ed for finding boundaries | s of planets and stars using a | ngular terms. |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 241) is called | disk machine | | |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 242)was use | ed for determining the al | titude. | |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 243)was use | ed for determining heigh | t of the place from sea level. | |
| a)Yasti Yantra | b)Phalak Yantra | c) Chakra Yantra | d) Dhanu Yantra |
| 244)was use | ed for determine longitud | de of planet | |
| a)Yasti Yantra | b)Phalak Yantra | c) Chakra Yantra | d) Dhanu Yantra |
| 245)was use | ed for determine Zenith | distance of sun. | |
| a)Yasti Yantra | b)Phalak Yantra | c) Chakra Yantra | d) Dhanu Yantra |
| 246)was use | ed for determine average | angular possition. | |
| a)Yasti Yantra | b)Phalak Yantra | c) Chakra Yantra | d) Dhanu Yantra |
| 247) is a simple v | vooden disk having hole | at the center. | |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 248) Least count or the sma | allest division of Chakra | Yantra is | |
| a) 6 ⁰ | b)5 ⁰ c) 2^0 | c) 4 ⁰ | |
| 249) means heigh | ht point the sun reaches a | above our head | |
| a) nadir b)zenith | c) ridian | d) declination | |
| 250) The Chakra yantra wa | s used for measurement | of | |
| a) Land marking | b) Time c)a | ingular position of cities | d) all of the above |
| 251) The Chakra yantra is o | called | | |
| a) phalaka machine | b) stick machin | e c)disk machine | d) all of the above |
| 252) 'Natta' and 'Unnatta' is | used to calculate the | | |
| a) mass b) ti | me c) tempera | ature d) all of the al | bove |
| 253) In Chakra Yantra, the | angle between the stick's | s shadow and the horizontal | line is called |
| a) time b) Dl | hi c) Natta | d) Unnatta | |
| 254) In Chakra Yantra, the | angle between the stick's | s top point of disk and shado | w of the stick |

| | a) time | b) Dhi | c) Natta | d) Unnatta | |
|------|----------------|---------------|------------------------|--------------------------|-----------------|
| 255) | The top point | of a vertical | line on a chakra yan | tra is called the | |
| | a) head | b) tail | c) Natta | d) Khardha | |
| 256) | 'Natta' and 'U | nnatta' were | measured by | | |
| | a) Chakra Ya | ntra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 257) | | which mea | ns disk Instrument. | | |
| | a) Dhanu Ya | ntra l | b) Chakra Yantra | c)Yasti Yantra | d)Phalak Yantra |
| 258) | which of the f | following is | unit of length | | |
| | a) candela | | b)light year | c)mole | d)lunar month |
| 259) | Dhanu Yantra | is known as | syantra. | | |
| | a) charka | b)Chaapa | c)circular | d) disk | |
| 260) | Chaapa means | s a | | | |
| | a) circle b |)squre | c)traingle | d) semicircle | |
| 261) | Chaapa is a | word. | | | |
| | a) Marathi | b)Hindi | c)English | d) Sanskrit | |
| 262) | Dhanu Yantra | is known as | sdisk machine | | |
| | a) circle b |) squre | c)traingular | d) semicircular | |
| 263) |) | .was used fo | or measurement of ve | ertical angle | |
| | a) Chakra Ya | ntra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 264) | was us | ed for meas | urement of height of | the terrestrial objects. | |
| | a) Chakra Y | Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 265) | was us | ed for meas | urement of diameter | of moon. | |
| | a) Chakra Ya | ntra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 266) |)was | s used for m | easurement of diame | eter of earth. | |
| | a) Chakra Y | Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 267) |)was | s used for m | easurement of circum | nference of earth. | |
| | a) Chakra Y | Yantra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 268) |)was | s used for m | easurement of distance | ce between moon and the | e earth. |
| | a) Chakra Ya | antra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |
| 269) | Dhanu Yantra | is half of th | e | | |
| | a) Chakra Y | antra | b)Yasti Yantra | c)Phalak Yantra | d) Dhanu Yantra |

| 270)is uso | ed to measure h | eight of the obj | ect using trigonometric for | mulae. | | |
|----------------------------------|---------------------------|------------------|------------------------------|-------------------------------|-----------------|--|
| a) Chakra Yantra b) Yasti Yantra | | i Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 271) Yasti Yantra was o | developed by the | e great mathem | atician and astronomer. | | | |
| a) Charudatta | a) Charudatta b) Ram Dass | | c) Bhaskaracharya | d) Rohidas | | |
| 272) Yasti Yantra is re | fered as | | | | | |
| a) Chi | b) Dhi | c) Dahi | d) Ghi | | | |
| 273) mea | ns a machine to | be used with in | ntelligence | | | |
| a) Chakra Yan | tra b)D i | hi Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 274) Yasti means a | | | | | | |
| a) Chakra | b)Stick | c)Phalak | d) Dha | nu | | |
| 275) Yantra is ` | V shaped. | | | | | |
| a) Chakra Yar | ntra b) D | hi Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 276) Yasti Yantra is kno | own as | | | | | |
| a) Chakra Yantra | b) Cross | staff | c)Phalak Yantra | d) Dhanu Yantra | | |
| 278)ha | as developed his | s unique metho | d to calculate the height of | terrestrial objects like tree | s and mountains | |
| a) Bhaskara | charya | b) Charudatta | c) Ram Dass | d) Rohidas | | |
| 279)ins | trument was use | ed for land surv | rey. | | | |
| a) Chakra Yantr | ra b)Yas | sti Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 280) An instrument cor | nsisted of a recta | angular board v | vith a pin and an index arm | | | |
| a) Chakra Yant | ra b)Ya | sti Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 281) used to de | etermine time fi | om the sun's al | titude. | | | |
| a) Chakra Yant | ra b)Ya | sti Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 282) The hour angle of | the sun was me | easured by | | | | |
| a) Chakra Yant | ra b)Ya | sti Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 283) used for f | finding position | of celestial obj | ects. | | | |
| a) Chakra Yantra | b)Yasti | Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 284) used for f | finding inclinati | on of planets ar | nd stars. | | | |
| a) Chakra Yantr | a b)Yas | ti Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 285) used for f | finding declinati | ion of planets a | nd stars. | | | |
| a) Chakra Yantra | a b)Yast | i Yantra | c)Phalak Yantra | d) Dhanu Yantra | | |
| 286) develop | oed phalaka yan | tra to measuer | the hour angle. | | | |

| a) Bhaskaracharya | b) Charudatta | c) Ram Dass | d) Rohidas | |
|---|---|-----------------------------------|--------------------------------|-------------------------|
| 287) consists horizo | ontal circular plate marked | with concentric | circles and stick hing | ed at centre. |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Ya | ntra d) Dhan | u Yantra |
| 289) is a flat plate ha | ving hole at the center. | | | |
| a) Chakra Yantra | b)Yasti Yantra | c)Phalak Y | antra d) Dha | nu Yantra |
| 290) is the angle be | etween imaginary line joini | ing observer to s | un and the horizontal | plane on the earth. |
| a) Altitude angle | b) cone angle c) | solid angle |) angle of rotation | |
| 291) is an instrumen a) Chakra Yantra | 1/77 .* 77 | phically from the c)Phalak | | anu Yantra |
| 292) The natural meaning of a) intelligence | Dhi is b) small | c) big | d)narrow | |
| 293) Dimensions of kinetic e a)Acceleration | nergy is the same as that of b)Velocity c) V | | Force | |
| 294) Electron volt is a unit of a)Luminosity | b)Frequency | c)Force | d)Energy | |
| 295) Which is the system of a)SMS system | | c)FPS System | d)CJS | System |
| 296) The pair of quantities ha (a) displacement, velocity | | | elength, focal lengtl | (d) force, acceleration |
| 297) Average distance of the (a) light year (b) | Sun from the Earth astronomical unit | (c) Fermi | (d) parsec | |
| (b) to derive the rela (c) to convert a phys (d) All of the above | ectness of a physical equat tionship between different ical quantity from one | physical quantit e system of I | units to other. | |
| Unit | 2 : Electricity, Mag | netism & Se | emiconductors | (CO2) |
| 1)The electricity developed of a)Current electricity | n a body, when it is rubbed b) Magnetic electricity | • | s called as, al electricity | d)None of these |
| 2) In an neutral atom numbe a)Same as protons | r of electrons are, b)less than pro | tons c) Mon | re than protons | d) None of these |
| 3) The principle of conservat a)constant | ion of charges state that, th b)variable c)Sma | - | n isolated system ren | nains, d)Large |
| 4)The surplus or lack of an el a)Capacitance | ectron in a body gives the b)Coul | | c)Charge | d)Neutrons |
| 5)The types of electric charge a) Small & High | es are, b)Positive & N | Jegative | c)Nano & Milli | d)None of these |

| 6)The force of attraction or repulsion between two electric charges is known as, | | | | | | | | |
|---|---|-----------------------------------|-----------------------------------|--------------------------------|---------------------------|--------------|---|--|
| a |)Magnetic force | b)Mech | anical force | c)Ele | ectrostatic fo | orce | d)Frictional force | |
| 7) Which of the following is a correct statement? a) Like charges attract and unlike charges repel b) Like as well as unlike charges attract each other c) Unlike charges attract each other and like charges repel each other d) Like as well as unlike charges repel each other | | | | | | | | |
| 8) If two equal strength charges are placed in air apart from each other and if they exert a force of on each other, then each charge is said to be a unit charge or charge of 1 coulomb. a) 9×10^9 m, 1N b) 9×10^{-9} m, 1N c) 1 m, 9×10^9 N d) 1 m, 9×10^{-9} N | | | | | | | | |
| * | ance between two elec)Increases | tric charges decre b)Decreases | | rostatic force be | | n, d)Redu | ces | |
| isp | omb's inverse square la proportional to product Inversely, Directly | of strengths of tv | wo charges and | | nal to squar | e of dis | charges in a given medium tance between them. | |
| | nit of electric charge is) Weber | , b)Joule | c)A | Ampere | • | d)Coul | omb | |
| 12) If two equal strength charges are placed in air one meter apart from each other and if they exert a force of $9 \times 10^{-9} N$ on each other, then each charge is said to be a charge of a)Nine coulomb b)Nine Newton c)One Coulomb d)One Newton | | | | | | | | |
| 13)Dielectric constant of a medium w.r.t.vaccum is the a)ratio of permittivity of vaccum to permittivity of medium b) ratio of permittivity of medium to permittivity of vaccum c) product of permittivity of vaccum to permittivity of medium d)None of these | | | | | | | | |
| | atio of permittivity of a | • | ttivity of vacci etic Constant | um is called as c)Dielectric o | constant | d)Newt | on's constsnt | |
| | ials which doesn't allo) Dielectrics | w current to flow b)Electi | - | but show elected ductor | rical effects d)Permit | | | |
| 16) The v | value of dielectric cons a)0 | tant for air is, b)1 | c)2 | | d)3 | | | |
| | alue of dielectric const)less than 1 | | other than air c)1 | | eater than 1 | | | |
| 18) The value of dielectric constant of a metal is, a)0 b)1 c) greater than 1 d) Infinity 19) The space around an electric charge in which force of attraction or repulsion is effective is known as, a) Electric field b) Magnetic field c) Gravitational field d) None of these 20) The intensity of electric field at appoint due to a point charge is defined as, a) Charge per unit electrostatic force b) Product of charge & electrostatic force c) Charge per unit electric field d) electrostatic force acting on unit positive charge at that point | | | | | | | | |
| | nit of Electric field into) C/N | ensity is, b)N/C | c)NC | | | | d)ohm/m | |
| | ic field intensity of a c | | 1, | b)Nature of o | charge | | | |

c)Strength of electric field

d)None of these