PAPER CODE : 3030

B.Sc SEM -1 (OLD COURSE)

JULY-SEP-2021

ES Phy-01 Instrumentation Measure and analysis

કુલ સમય :– ૩૦ મીનીટ કુલ પ્રશ્નો : ૩૫ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૨૫

નોંધ : વિદ્યાર્થીએ માત્ર ૨૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૨૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1 The L.C.M. of vernier calliperce is …….

A 0.1 cm B 0.01 cm C 0.01 m D None of these

2 The L.C.M. of micrometer screwgadge is …….

A 0.1 cm B 0.01 cm C 0.001 cm D None of these

3 The L.C.M. of spectrometer is …….

A 1 min B 30 min C 1 degree D 60 degree

4 Gelnometer is useful to measurement of which quentity?

A Electric current B Voltage C Pressure D Density

5 If cylinder of soft iron will have been putted on coil of gelvenometer, then which type of magnetic field there.

A radially B circle C spherical D

6 The diflection of coil of Gelvenometer is proportional to …….

A electric current B (electric(harge)^2 C voltage D None of these

7 ……. quantity find out with use of whistonbridge network

A Resistance B ele-current C capacitance D electric charge

8 The unit of spring constant is…….

A Joule/rad B rad/Joule C Joule D rad

9 How many resistance are used to whistonbridge network?

A two B four C six D eight

10 The distance between two consequently turns of micrometer screw gadge is known as ……

A Path distance B Stifen distance C a and b both D None of these

11 How many main part of varnier calliperce?

A 1 B 2 C 3 D 4

12 1 Angstrom = ……. micrometer

A 10^{-2} B 10^{-8} cm C 10^{-16} cm D None of these

13 The wavelength of voilet region of visible specra is …..

A 4000 Å B 6000 Å C 7000 Å D 5890 Å

14 Give the wavelength of sodium light = ……

A 4047 Å B 5890 Å C 4300 Å D 5500 Å

15 If least count measurement of spectometer is 1 minit then what will be value of mainscale …… and total division

A 1/2, 50 div B 1 unit 100 div C 1/2 unit, 100 div D 1 unit, 50 div

16 Following is a part of spectrometer …….

A scale B collimeter C sodium lamp D None of these

17 The figure of merit of galvinometer measured in unit ……..

A microampier./$_{mm}$ B microampier./$_{m}$ C microampier./$_{ampier}$ D miliampier./$_{cm}$

18 An eyepiece is a part of …….

A vernier culipers B micrometer screw C Post office box D spectometer

19 A minimum angle of deviation for simple glass prism is of the order of ……..

A 38 થી 41 B 70 થી 80 C >100 D 1.5

20 The unit of wave number is …….

A	cm.	B	cm^2	C	cm^{-1}	D	m

21 The reciprocal of wavelength is called……..

A	Wavelength	B	frequency	C	wavenumber	D	amplitude

22 1 inch = …….. Cm

A	18.54 cm	B	2.54 cm	C	3.54 cm	D	4.20 cm

23 In vernier calliperce positive error the correct observation is …….

A	Positive	B	Negative	C	a and b both	D	None of these

24 How many main part of micrometer screwgadge?

A	1	B	2	C	3	D	4

25 The unit of wavlength is ……..

A	A°	B	Watt	C	Volt	D	None of these

26 The following is part of the spectrometer

A	Scale	B	Colimeter	C	Sodium Lamp	D	None of these

27 The sensitivity unit of a galvinometer is .....

A	Microampi./ mm	B	Microampi./ m	C	Microampi./	D	Miliampier./ cm

28 The eye glass is part of the following

A	Vernier calipers	B	Micrometer screw	C	Post office box	D	Spectrometer

29 What is the minimum deviation of a prism made of plain glass?

A	38° To 41°	B	70° To 80°	C	$>100^{\circ}$	D	1.5

30 The unit of wave number is .....

A	Meter	B	cm^2	C	cm^{-1}	D	cm

31 Unit of periodic time is …….

A	Wavelength	B	wave number	C	second	D	centimeter

32 1 mega OHM = …….. OHM

A	10^3	B	10^6	C	10^9	D	10^8

33 1 Micro Ferad = ... Ferad

A	10^{-5}	B	10^{-6}	C	10^{-9}	D	None of these

34 Unit of amplitude is …….

A	Newton	B	Micro meter	C	Dyne	D	centimeter

35 Unit of self inductor is ……..

A	Henry	B	Ferade	C	Volt	D	None of these