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INSPECTOR LEGAL METROLOGY

EXAM DATE:27-05-2016

1.'Atmanutapam'written by:

A.Chattambi Swamikal

B.Vakbadananda

C.Markuriakose Elias Chavara*

D.Vaikunda Swamikal

Ans:C

2.Who is regarded as 'Kerala Hemingway'?

A.M.T.Vasudevan Nair*

B.Thakazhi Sivasankara Pillai

C.C.V.Raman Pillai

D.Kurisseri Gopala Pillai

Ans:A

3.Who is called the Legal Adviser of Indian Government?

A.Attorni General*

B.Advocate General

C.Controller and Auditor General

D.Planning Commission

Ans:A

4.The first women speaker of Lok Sabha,Meerakumar was elected from which constituency?

A.Thoothukudi

B.Sasaram*

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C.Amaravati

D.Indore

Ans:B

5.The aim of 'Rajiv Awas Yojana':

A.Rural housing

B.Urban housing

C.Slum free India*

D.Housing for SC,ST

Ans:C

6.The Constitution Assembly firstly summoned in Constitution Hall,Which is recently known as

A.Constituent Assembly hall

B.Central Hall of Parliament*

C.Assembly Hall of Parliament

D.Assembly Hall of Rajya Sabha

Ans:B

7.Which article of Indian Constitution deals about citizenship?

A.Article 14-18

B.Article 36-51

C.Article 5-11*

D.Article 6-12

Ans:C

8.The Untouchability Offence Act passed by Indian parliament in

A.1955*

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B.1956

C.1961

D.1972

Ans:A

9.The Right to Information Act came to exist on

A.2005 sep.16

B.2005 Aug 18

C.2005 Nov 13

D.2005 Oct 12*

Ans:D

10.The first Echo Tourism Centre in India

A.Thattekkad

B.Thenmala*

C.Pampadupara

D.Odakkali

Ans:B

11.'Veenapoov'of Kumaranasan firstly published in:

A.Vivekodayam

B.Swaraj

C.Malayalee

D.Mithavadi*

Ans:D

12.The Newspaper Al-Ameen was started by

A.Muhammed Abdul Rahman*

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B.Vakkam Abdul Khader Moulavi

C.Moulana Abdul Kalam Azad

D.Moulana Shoukathali

Ans:A

13.The headquarter of Kerala Sahitya Akkadami transferred from Thiruvananthapuram to Thrissur in:

A.1958

B.1956

C.1957*

D.1961

Ans:C

14.Who was Inaugurated Kerala Sangeetha Nadaka Akkadami in 1958?

A.Chithira Thirunal Bala Rama Varma

B.Pattam Thanu Pilla

C.Jawaharlal Nehru*

D.E.M.S.Namboothiripad

Ans:C

15.Who is regarded as 'John of Arch'of Kerala

A.Akkamma Cheriyan*

B.Anna Chandi

C.Parvathi Nenmenimangalam

D.A.V.Kuttimalu Amma

Ans:A

16.The real name of Brahmananda Siva Yogi?

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A.Karatt Achuthha Menon

B.Karatt Govinda Menon*

C.Krishnan Nambiadiri

D.Kunchi Kannan

Ans:B

17.Who got the 'Njanapita Award'of 2014?

A.O.N.V.Kurup

B.Thara Sankar Bandopadyay

C.Balachandra Nomade*

D.Amritha Preetham

Ans:C

18.Who wrote the first biography of Sree Narayana Guru?

A.Moorketh Ramanunni

B.Kumaranasan

C.Moorkoth Kumaran*

D.Dr.Palppu

Ans:C

19.The Association formed by Poykayil Yohannan:

A.PRCs

B.PRDA

C.PADS

D.PRDS*

Ans:D

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20.Who was the first Non-Brahmin man who ring the temple bell of Guruvayoor Temple?

A.P.Krishna Pillai*

B.T.K.Madhavan

C.K.Kelappan

D.Mannathu Padmanabhan

Ans:A

21.The dimension of scattering cross section is that of:

A.Velocity

B.Volume

C.Area*

D.None of these

Ans:C

22.The work done in blowing a bubble of surface tension T, having radius r is

Ans: $8(\pi)r^2T$

23.If I is the moment of inertia,w is the angular velocity and m is the mass of a rotating body then kinetic energy is

Ans: $K = \frac{1}{2} I\omega^2$

24.In CE amplifier emitter current=6 mA,base current=0.1 mA,then current gain is:

A.59*

B.65

C.60

D.50

Ans:A

25.A galvanometer having 30 divisions and a current sensitivity of 20 $\mu\text{A/div}$ and it has a resistance of 25 Ω .To convert it into an ammeter up to 1 amp,the shunt required is:

Ans:0.105 Ω

26.The additional term introduced by Maxwell to remove the inconsistency of Ampere' law is:

Ans:-----

27.The efficiency of a network when it transfer maximum power to the load is:

A.25%

B.50%*

C.75%

D.100%

Ans:B

28.Skieter,the dog weighs exactly 36.5 kg.When weighed on a defective scale he weighed 38 kg.The percentage of error in measurement of defective scale to the nearest tenth is:

A.4.1%*

B.4.3%

C.4.2%

D.4.0%

Ans:A

29.When a plane polarized light incident on a rotating analyser,in one complete rotation one finds:

- A.One complete extinction
- B.One brightness and two complete extinction
- C.Two brightness and one complete extinction
- D.Two brightness and two complete extinction*

Ans:D

30.Sky is blue because of:

- A.Raman Scattering
- B.Raylength scattering*
- C.Brillouin scattering
- D.Meiser scattering

Ans:B

31.Which of the logic gate is represented by the following combination?

(Picture given AND gate)

Ans:AND

32.A Uniform electric field pointing in positive y direction exists in a region.Let A be the origin, B be the point on x axis at $x=2\text{cm}$ and C be the point on y axis at $y=2\text{ cm}$,the potential at the points A,B and C satisfy:

Ans: $V_A > V_C$

33.A cricket ball is thrown at a speed of 28 m/s in a direction 30° above the horizontal ,the distance from the thrower to the point where the ball returns to the same level is:

A.72 m

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B.69 m*

C.70 m

D.58 m

Ans:B

34.The escape velocity of a body depends on:

A.Mass of the body

B.The direction of projection

C.The location from where it is projected

D.The height of the location from where it is projected*

Ans:D

35.The unit of power of lens is:

A.Dioptre*

B.Square metre

C.N/m²

D.Decibel

Ans:A

36.The dimension of gravitational field intensity is:

A.LT⁻²*

B.MLT²

C.L²MT

D.None of these

Ans:A

37.The wavelength of light,when the angle of minimum deviation is 30° for the second order and the number of lines per cm of the grating is 5000,is:

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Ans: $5.176 \times 10^{-7} \text{m}$

38.The Spherical aberration of the lens can be minimised:

- A.By using a crossed lens
- B.By using two lenses separated by a distance
- C.By using a planable lens
- D.All of these*

Ans:D

39.A bullet of mass 0.04 kg moving with a speed of 90 m/s enters a heavy wooden block and stopped after distance of 60 cm.The retardation of the bullet is:

Ans: -6750 m/s^2

40.The percentage in the measurement of mass and velocity is 1% and 2% respectively.Then the percentage error in Kinetic energy is:

Ans:5%.

41.The measured value of a quantity is 75.5 and the expected value is 80.0.Then the relative error is:

Ans: ---5.6%

42.Which property of zener diode is used to regulate supply voltage?

- A.At break down voltage there is a large in the reverse current
- B.The large reverse current will change the reverse voltage
- C.The zener voltage is independent of the current through the diode*
- D.None of these

Ans:C

43.The density of atmosphere at sea level is 1.29 kg/m^3 .Assume that it does not change with altitude,the atmosphere extended up to:

- A.8 km*
- B.9.5 km
- C.12.5 km
- D.18 km

Ans:A

44.The least count of screw gauge is given by:

- A.Pitch/number of division on main scale
- B.Magnitude of one main scale division/number of division on head scale
- C.Pitch/number of division on head scale*
- D.Magnitude of one pitch scale division/number of division on vernier scale

Ans:C

45.In Newton's ring experiment the diameter of m^{th} ring changes from 1.2 cm to 1 cm when the air space between the lens and the plate is replaced by some transparent liquid.The refractive index of the liquid is:

- A.1.45
- B.1.44*
- C.1.33
- D.1.35

Ans:B

46.The expression which indicates the units of a physical quantity in terms of fundamental units is:

- A.Homogenous equation

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B.Dimensional equation*

C.Analysis equation

D.None of these

Ans:B

47.The maximum permissible error in a difference $z=x-y$ is:

Ans:---

48.The threshold frequency corresponds to the wavelength of radiation incident on certain metal with work function 3.31×10^{-19} J is:

($h=6.62 \times 10^{-34}$ Js)

Ans:-----

49.Which of the following schemes does not produce lasing action?

A.Two level*

B.Three level

C.Four level

D.Five level

Ans:A

50.A person sitting inside a car is safe because:

A.The electric field inside the car is equal to the field outside

B.The electric field inside the car is zero*

C.The electric field inside the car will be cancelled by lightning

D.The electric field inside the car is infinity

Ans:B

51.The differential form of Gauss's theorem is:

Ans:---

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52.Change in entropy when 0.2 kg water falls in temperature from 360 K to 340 K is

Ans: -0.482 J/K

53.The Mayer's relation is:

Ans: $C_p - C_v = R$

54.At terminal velocity,the acceleration of the body is:

A.Maximum

B.Same as that of the velocity

C.Square of the velocity

D.Zero*

Ans:D

55.The velocity of the particle is given by the relation $v = at^2 + bt + c$.The dimension of a, b and c are:

Ans: $LT^{-3}, LT^{-2}, LT^{-1}$

56.The Young's Modulus $Y = \frac{MgL}{(\pi)r^2l}$, it is given that $L = 2.890$ m, $M = 3.00$ kg, $g = 9.81$ m/s², $r = 0.041$ cm, $l = 0.087$ m. The possible percentage of error is:

Ans:6.360%

57.Of the five spectrum series of hydrogen, which one lies in ultraviolet region?

A.Balmer series

B.Lyman series*

C.Pfund series

D.Bracket series

Ans:B

58.A quarter wave plate produces a path difference of:

Ans:----

59.The force F experienced by a moving charge with speed v in electric and magnetic field is:

Ans: $F=q[E+(v \times B)]$

60.The frequency of oscillation of charging LCR circuit is:

Ans:-----

61.In a chromatography experiment the distance travelled by the solvent measured is 10 cm.If the distance travelled by the sample is 5 cm,what is the R_f –value of the sample?

Ans:5/10

62.An X-ray diffraction pattern is a plot of:

Ans:-

63.Which one of the following is correct about TGA(Thermogravimetric analysis)?

A.Used to find out the melting point

B.Used to find out the enthalpy of phase transitions

C.It is a plot of heat flow Vs temperature

D.It is a plot of percentage weight loss against temperature and helps to find out decomposition temperature of a sample*

Ans:D

64.Which one of the following is correct about DTA(Differential thermal analysis)?

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- A.It provides information about the weight loss of a compound upon heating
- B.Helps to find out the dissociation temperature of a compound
- C.It is a plot of Triangle T against temperature and provides information about the exothermic and endothermic events happening in a sample*
- D.None of the above

Ans:C

65.Which one of the following is correct about TEM(Transmission electron microscopy)?

- A.Used to find out the morphology of hard objects
- B.Used to find out the morphology of hollow objects
- C.Used to find out the structure of nano objects
- D.Options B and C are correct*

Ans:D

66.How one can prepare a p-type conducting polymer from

- A.Doping with Na^+
- B.Doping with Ca^{2+}
- C.Doping with Naphthalene
- D.Doping with I^+

Ans:D

67.The fact that differentiate a conducting polymer from a conventional metallic conductor is:

- A.Conducting polymer exhibits metallic luster
- B.Conducting polymer possesses a valance band and
- C.The charge carriers in conducting polymers are electrons
- D.In conductinig polymers the conductance increases with increase in temperature*

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Ans:D

68.Monomer unit of Neoprene is:

A.Chloroprene*

B.Isoprene

C.Acetylene

D.Caprolactum

Ans:A

69.Find out the odd one among the following polymers:

Polyethylene,Polystyrene,Teflon,Nylon 6,6

A.Polyethylene

B.Polystyrene

C.Teflon

D.Nylon 6,6*

Ans:D

70.Which one of the following is a method for the preparation of carbon nanotubes?

A.High pressure carbon monoxide

B.Chemical vapour deposition method

C.Arc discharge method

D.All the above*

Ans:D

71.What is the hybridization of carbon in carbon nanotube?

A.sp

B.dsp²

C.sp²*

D.sp³

Ans:C

72.Which of the following is related with carbon nanotubes?

A.Single walled

B.Chiral

C.Arm chair

D.All the above*

Ans:D

73.Which one of the following is an example for a thermosetting plastic?

A.Polypropylene

B.Polystyrene

C.PVC

D.Bakelite*

Ans:D

74.The parameter which is measured experimentally in a bomb calorimeter is:

Ans:--

75.The process inside a bomb calorimeter is assumed to be:

A.Isenthalpic

B.Isobaric

C.Adiabatic*

D.Isothermal

Ans:C

76.Beer Lambert law shows deviation of higher concentrations because:

- A.Wavelength of incoming radiation experiences a variation at higher concentrations
- B.Intermolecular interactions becomes significant at higher concentrations*
- C.Path length measurements errs at higher concentrations
- D.None of the above

Ans:B

77.A substance which absorbs the wavelengths at the red end of the visible spectrum appears:

- A.White
- B.Blue*
- C.Black
- D.Red

Ans:B

78.The internal standard used in proton NMR spectroscopy to calibrate chemical shift is:

- A.D₂O
- B.COCl₂
- C.Tetramethyl silane*
- D.DMSO-D₆

Ans:C

79.Unit of chemical shift is:

- A.nm
- B.ns

C.MHz

D.ppm*

Ans:D

80..Paper chromatography is an example for

A.Adsorption chromatography

B.Ion exchange chromatography

C.Partition chromatography*

D.None of the above

Ans:C

81.—

82.The radius of a cylinder increasing at the rate 5 cm/sec in such a way that the volume remains as a constant.When radius is 5 cm and height is 3 cm,the rate of change of height with respect to time is:

Ans: -6 cm/sec

83.The area of the curve $y=\sin x$ between $x=0$ and $x=\text{Pie}$ is:

Ans:4

84.A ball is thrown vertically upwards with an initial velocity of 128 ft/sec and the ball's height after t seconds is given by $8(t)=128t-16t^2$.At what time the velocity is 48 ft/sec?

Ans:2.5 sec

85.If sum of two numbers is k ,then the minimum value of the sum of their cubes is:

Ans:1/4

86.A and B can do a piece of work in 12 days;B and C can do it in 20 days while C and A can do it in 15 days.In how many days will they all working together can finish the work

Ans:10 days

87.In a certain code BADE is coded as 12 and BYE is coded as 32.Then how will GOOD be coded in the same language?

A.41*

B.16

C.28

D.56

Ans:A

88.The angle between the hour hand and the minute hand of a clock when the time is 30 minutes past 4'0 clock:

Ans:45 degree

89.If the new year day (1st January)of the year 2013 was a Tuesday then which year immediately after 2013 will have new year day Tuesday itself?

Ans:2019

90.The area of a triangle is 216 cm^2 and its sides are in the ratio 3:4:5.The perimeter of the triangle is:

A.60 cm

B.100 cm

C.56 cm

D.72 cm*

Ans:D

91.A person incurs a loss of 5% by selling a watch for Rs.1,140.At what price should the watch be sold to earn a profit of 5%?

A.1260*

B.1280

C.1300

D.1320

Ans:A

92.The next term in the series 1,3,7,15,31,--is:

A.52

B.63*

C.56

D.66

Ans:B

93.If a man travels at the rate of 40 Km/hr he misses the flight by 11 minutes and if he travels at the rate of 50 km/hr he reaches the airport 4 minutes earlier.The distance travelled by him to reach the airport is:

Ans:50 Km

94.When simplified the expression

$10/1.2+10/2.3+10/3.4+...+10/n(n+1)$,for any natural number is:

A. $10n/n+1$ *

B. $10n^2/n+1$

C. $10(n-1)/n+1$

D. $10(n+1)/n(n+1)$

Ans:A

95.If a certain sum of money amounts to Rs.1,008 in 2 years and to Rs.1,164 in $3\frac{1}{2}$ years at a certain simple interest rate the amount deposited(Principal)is Rs.

A.1000

B.900

C.800*

D.850

Ans:C

96.If $x^2+2xy+2y^2=1$,then dy/dx at the point where $y=1$ is equal to:

Ans:0

97.-

98.How many four digit numbers 'ahed'exist such that a is odd,b is divisible by 3,c is even and d is prime?

A.380

B.360

C.400*

D.620

Ans:C

99.The system of linear equations $3x+y-z=2$, $x-z=1$, $2x+2y+az=5$ has a unique solution when:

Ans:a not equal to 2

100.-

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