Delhi CET Polytechnic 2018 Question Paper

Time Allowed :2 Hours	**Maximum Marks :**600	**Total questions :**150

General Instructions

Read the following instructions very carefully and strictly follow them:

1. **Mode of Examination:** Online (Computer Based exam)
2. **Number of Questions:** 150
3. **Type of Questions:** MCQ (Multiple Choice Questions)
4. **Duration:** 2 hours
5. **Negative Marking:** - 1 mark

Mathematics

1. Every point on a number line represents :

(1) An Irrational number

(2) A Rational number

(3) A Unique real number

(4) A Natural number

---

2. If a,b,c are positive real numbers, then $\sqrt{a^{-1}b} \times \sqrt{b^{-1}c} \times \sqrt{c^{-1}a}$ is equal to :

(1) abc

(2) $\sqrt{abc}$

(3) $\frac{1}{abc}$

(4) 1

---

3. If $x + \frac{1}{x} = 2$, then $x^3 + \frac{1}{x^3} =$

(1) 64

(2) 8

(3) 2

(4) 1

---

4. If $(x - a)$ is a factor of $x^3 - 3x^2a + 2a^2x + b$, then the value of b is :

(1) 1

(2) 2

(3) 3

(4) 0

---

5. If $(2K - 1, K)$ is a Solution of the equation $10x - 9y = 12$, then K =

(1) 2

(2) 1

(3) 4

(4) 3

---

6. The perpendicular distance of the point P (6,8) from x axis is :

(1) 8

(2) 6

(3) 10

(4) None of these

---

7. How many least number of distinct points determine a unique line ?

(1) 3

(2) 2

(3) 1

(4) 4

---

8. If two interior angles, on the same side of a transversal intersecting two parallel lines, are in the ratio 2 : 3, then the measure of the larger angle is :

(1) 54°

(2) 120°

(3) 108°

(4) 136°

---

9. If the bisectors of the acute angles of a right triangle meet at O, then the angle at O, between the two bisectors is :

(1) 45°

(2) 95°

(3) 135°

(4) 90°

---

10. If $\triangle ABC \cong \triangle ACB$, then $\triangle ABC$ is Isosceles with :

(1) AB=AC

(2) AB=BC

(3) AC=BC

(4) None of these

---

11. The figure formed by joining the mid points of the adjacent sides of a rectangle is :

(1) Square

(2) Rhombus

(3) Trapezium

(4) None of these

---

12. Diagonals AC and BD of trapezium ABCD, in which AB||DC intersect each other at O. The triangle which is equal in area of $\triangle$AOD is :

(1) $\triangle$AOB

(2) $\triangle$BOC

(3) $\triangle$DOC

(4) $\triangle$ADC

---

13. The chord of a circle is equal to its radius. The angle subtended by this chord at the minor arc of the circle, is :

(1) 60°

(2) 75°

(3) 120°

(4) 150°

---

14. A square and an equilateral triangle have equal perimeters. If the diagonal of the square is $12\sqrt{2}$ cm, then area of the equilateral triangle is :

(1) $24\sqrt{2}$ cm^2

(2) $24\sqrt{3}$ cm^2

(3) $48\sqrt{3}$ cm^2

(4) $64\sqrt{3}$ cm^2

---

15. The length, width and height of a rectangular solid are in the ratio of 3:2:1. If the volume of the solid is 48 cm^3. The total surface area at the solid is :

(1) 27 cm^2

(2) 32 cm^2

(3) 44 cm^2

(4) 88 cm^2

---

16. If the diameter of the base of a closed right circular cylinder be equal to its height, h, then its whole surface area is :

(1) $2\pi h^2$

(2) $\frac{3}{2}\pi h^2$

(3) $\frac{4}{3}\pi h^2$

(4) πh^2

---

17. If the radius of the base of a right circular cone is $3r$ and its height is equal to the radius of the base, then its volume is :

(1) $\frac{1}{3}\pi r^3$

(2) $\frac{2}{3}\pi r^3$

(3) $3\pi r^3$

(4) $9\pi r^3$

---

18. If the ratio of volumes of two spheres is 1:8, then the ratio of their surface area is :

(1) 1:2

(2) 1:4

(3) 1:8

(4) 1:16

---

19. Let l be the lower class limit of a class-interval in a frequency distribution and m be the mid point of the class. Then the upper class limit of the class is :

(1) $m + \frac{l+m}{2}$

(2) $l + \frac{m+l}{2}$

(3) $2m - l$

(4) $m - 2l$

---

20. Two coins are tossed simultaneously. The probability of getting atmost one head is :

(1) $\frac{1}{4}$

(2) $\frac{3}{4}$

(3) $\frac{1}{2}$

(4) $\frac{5}{4}$

---

21. If n is a natural number then $9^{2n} - 4^{2n}$ is always divisible by :

(1) 5

(2) 13

(3) both 5 and 13

(4) none of these

---

22. If n is any natural number then $6^n - 5^n$ always ends with :

(1) 1

(2) 3

(3) 5

(4) 7

---

23. If α, β are the zeroes of the polynomial :

$f(x) = x^2 - p(x+1) - C$ **such that** $(\alpha + 1)(\beta + 1) = 0$ **then C=**

(1) 1

(2) 0

(3) -1

(4) 2

---

24. In $\triangle ABC$ **and** $\triangle DEF$**,** $\angle A = \angle E = 40^\circ$ **and AB : ED = AC : EF and** $\angle F = 65^\circ$ **then** $\angle B =?$

(1) 35°

(2) 65°

(3) 75°

(4) 85°

---

25. If $\tan\theta = \frac{a}{b}$ **then** $\frac{a\sin\theta + b\cos\theta}{a\sin\theta - b\cos\theta} =$

(1) $\frac{a^2+b^2}{a^2-b^2}$

(2) $\frac{a^2-b^2}{a^2+b^2}$

(3) $\frac{a+b}{a-b}$

(4) $\frac{a-b}{a+b}$

---

26. If $\csc\theta = 2x$ **and** $\cot\theta = \frac{2}{x}$ **then** $2\left(x^2 - \frac{1}{x^2}\right) =?$

(1) 1

(2) 0

(3) $\frac{1}{2}$

(4) -1

---

27. If the mean of 1,3,4,5,7,4 is m **and mean of 3,2,2,4,3,3,**p **is** $(m-1)$ **and median is** q **then** $p + q =$

(1) 4

(2) 5

(3) 6

(4) 7

---

28. If $\sin\alpha$ **and** $\cos\alpha$ **are the roots of equation :** $ax^2 + bx + c = 0$ **then** $b^2 =$

(1) $a^2 - 2ac$

(2) $a^2 + 2ac$

(3) $a^2 - ac$

(4) $a^2 + ac$

---

29. What will be the sum of n terms of the following arithmetic progression if the arithmetic progression is: $(x-y)^2, (x^2+y^2), (x+y)^2, \ldots\ldots\ldots$ **up to n terms:**

(1) $n\{(x-y)^2 + (n-1)xy\}$

(2) $\{n(x-y)^2 + n(x+y)^2\}$

(3) $\frac{n}{2}(x^2+y^2) - (x+y)$

(4) None of these

---

30. If $\frac{5+9+13+\ldots\ldots\ldots \text{ to } n \text{ terms}}{7+9+11+\ldots\ldots\ldots \text{ to } (n+1) \text{ terms}} = \frac{17}{16}$ **then** $n =$

(1) 8

(2) 7

(3) 10

(4) 11

---

31. In figure : AD = 4 cm, BD = 3 cm, CB = 12 cm, then $\cot\theta =$

(1) $\frac{3}{4}$

(2) $\frac{5}{12}$

(3) $\frac{4}{3}$

(4) $\frac{12}{5}$

---

32. If $\sin 3\theta = \cos(\theta - 6^\circ)$**, where** (3θ) **and** $(\theta - 6^\circ)$ **are both acute angles then the value of** θ **is :**

(1) 18°

(2) 24°

(3) 36°

(4) 30°

---

33. $\sin(60^\circ + \theta) - \cos(30^\circ - \theta)$ **is equal to :**

(1) $2\cos\theta$

(2) $2\sin\theta$

(3) 0

(4) 1

---

34. If $\sin A + \sin^2 A = 1$**, then the value of** $\cos^2 A + \cos^4 A$ **is :**

(1) 2

(2) 1

(3) -2

(4) 0

---

35. If the equation : $(a^2 + b^2)x^2 - 2(ac + bd)x + (c^2 + d^2) = 0$ **has equal roots then :**

(1) $ab = cd$

(2) $ad = bc$

(3) $ad = \sqrt{bc}$

(4) $ab = \sqrt{cd}$

---

36. If a **and** b **can take values 1,2,3,4. Then the number of the equations of the form :** $ax^2 + bx + 1 = 0$ **having real roots is :**

(1) 10

(2) 7

(3) 6

(4) 12

---

37. If the sum of first n **terms of an A.P. is** $\frac{3n^2}{2} + \frac{5n}{2}$ **then its 25th term is :**

(1) 70

(2) $-n$

(3) 76

(4) none of these

---

38. Sum of all 3 digit natural numbers which are divisible by 13 :

(1) 3774

(2) 37674

(3) 37697

(4) 37650

---

39. A cone, a hemisphere and a cylinder stands on equal bases and have the same height. What is the ratio of their volumes :

(1) 1 : 2 : 3

(2) 2 : 3 : 4

(3) 1 : 3 : 4

(4) none of these

---

40. The circumference of a circle is 100 cm. The side of a square inscribed in the circle is :

(1) $50\sqrt{2}$ cm

(2) $\frac{100}{\pi}$ cm

(3) $\frac{50\sqrt{2}}{\pi}$ cm

(4) $\frac{100\sqrt{2}}{\pi}$ cm

---

41. The exponent of 3 in the prime factorisation of 864 is :

(1) 2

(2) 5

(3) 4

(4) 3

---

42. The least numbers divisible by 2,3,7 and 9 is :

(1) 126

(2) 256

(3) 251

(4) 189

---

43. Graphically, the two systems of equations $x + 7 = 0, y - 2 = 0$ and $x - 2 = 0, y + 7 = 0$ enclose a :

(1) Square region

(2) Rectangular region

(3) A triangular region

(4) Trapezium shaped region

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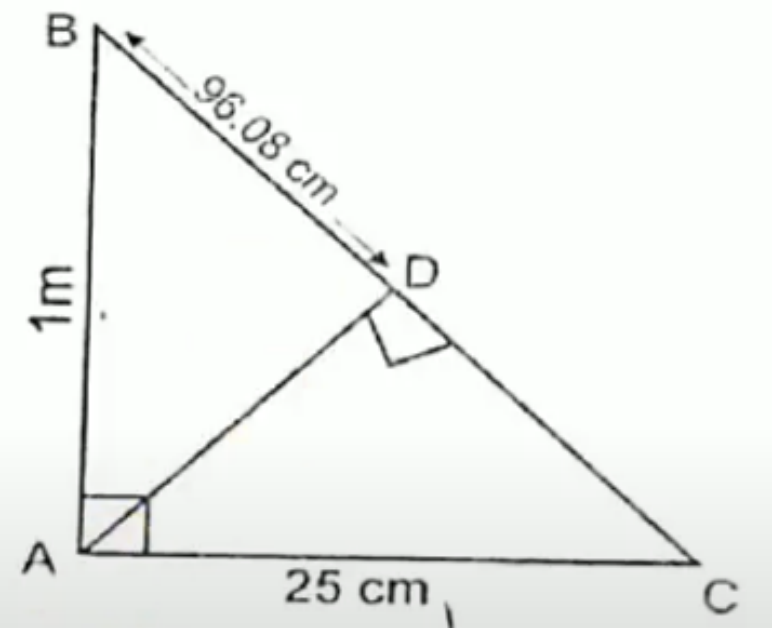
44. In the given figure $\angle CAB = 90^\circ$ and AD $\perp$ BC. If AC = 25 cm, AB = 1m and BD = 96.08 cm, then find the value of AD



Visual shows triangle CAB with right angle at A. AD is perpendicular to BC, with D on BC. Labels: AC=25cm, AB=1m. BD=96.08cm is marked on the hypotenuse segment.

(1) 23cm

(2) 98cm

(3) 24.02cm

(4) none of these

---

45. If α and β are the roots of $2x^2 - 4x + 1 = 0$. Then $\frac{1}{\alpha^2\beta} + \frac{1}{\alpha\beta^2} =$

(1) -4

(2) 8

(3) 1

(4) 0

---

46. From the top of a tower h meter high, the angle of depression of two objects, which lie on either side of it are α and β. The distance between the two objects is :

(1) $h(\cot\alpha + \cot\beta)$

(2) $h(\cot\alpha - \cot\beta)$

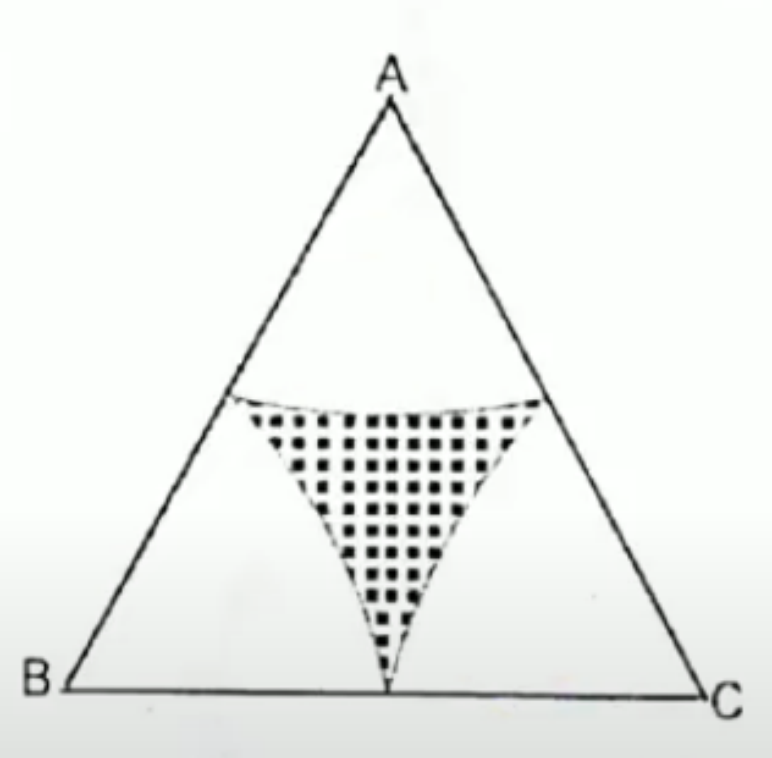
(3) $h(\tan\alpha + \tan\beta)$

(4) $h(\tan\alpha - \tan\beta)$

---

47. In the given figure $\triangle$ABC is an equilateral triangle of side 8 cm. A,B and C are the centres of circular arcs of radius 4 cm. Find the area of the shaded region correct upto 2 decimal places ($\pi = 3.142, \sqrt{3} = 1.732$)

Equilateral triangle ABC. From each vertex (A, B, C), a circular sector is drawn inside the triangle.



Radius of each sector is 4 cm. Side of triangle is 8 cm. The shaded region is the area of the triangle MINUS the areas of these three sectors.

(1) 2.57 cm^2

(2) 3.45 cm^2

(3) 1.67 cm^2

(4) none of these

---

48. In a single throw of pair of dice, the probability of getting a multiple of 2 on one and a multiple of 3 on the other will be :

(1) $\frac{5}{36}$

(2) $\frac{1}{18}$

(3) $\frac{11}{36}$

(4) $\frac{1}{6}$

---

49. Two dice are numbered 1,2,3,4,5,6 and 1,1,2,2,3,3 respectively. They are thrown and the sum of the numbers on them is noted. The probability of getting a sum of 5 will be :

(1) $\frac{1}{9}$

(2) $\frac{1}{18}$

(3) $\frac{1}{6}$

(4) $\frac{1}{36}$

---

50. A bag contains 14 balls of which x are white. If 6 more white balls are added to the bag, the probability of drawing a white ball is $\frac{1}{2}$. Then the value of $x =$

(1) 7

(2) 4

(3) 8

(4) none of these

Physics

51. The minimum distance between source and reflecting surface for echo is :

(1) 10.2 m

(2) 17.2 m

(3) 20.4 m

(4) 27.4 m

---

52. If time period is 0.02 second, then frequency will be :

(1) 50 Hz

(2) 5 Hz

(3) 0.02 Hz

(4) 500 Hz

---

53. In SONAR, we use :

(1) Audible Sound

(2) Radio Sound

(3) Ultra Sound

(4) Infra Sound

---

54. The velocity of an object becomes double then its kinetic energy will be :

(1) Kinetic Energy does not depend on velocity

(2) Two times

(3) Four times

(4) Eight times

---

55. Maximum work is done, when the angle between force and displacement is :

(1) 60°

(2) 45°

(3) 30°

(4) 0°

---

56. An object of mass 2 Kg is lifted up to height 2 m. The work done will be :

(1) 39.20 J

(2) 9.80 J

(3) 98 J

(4) 980 J

---

57. SI unit of gravitational constant (G) is :

(1) $\mathrm{Nm^2kg^{-1}}$

(2) $\mathrm{Nm\ kg^{-2}}$

(3) $\mathrm{N^2m\ kg^{-2}}$

(4) $\mathrm{Nm^2kg^{-2}}$

---

58. Mass of a man is 60 Kg, his mass on the moon will be :

(1) 60 Kg

(2) 10 Kg

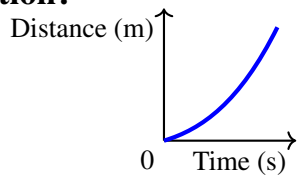
(3) 98 Kg

(4) 0 Kg

---

59. Which of the following distance-time graphs represents an object in uniform motion?

(1)



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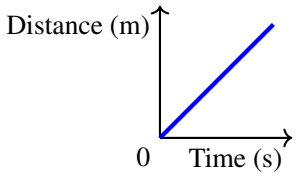

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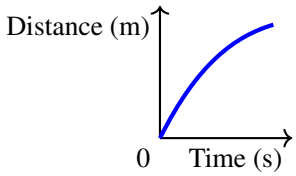
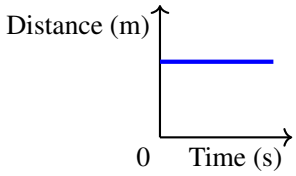
(3)



(4)



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60. A particle is moving on a circular path of radius r. Its displacement after one revolution :

(1) $2\pi r$

(2) πr

(3) 0 (zero)

(4) $2r$

---

61. In velocity time graph, area under v-t graph represents :

(1) Displacement

(2) Velocity

(3) Acceleration

(4) Time

---

62. Rocket works on the principle of conservation of :

(1) Mass

(2) Energy

(3) Charge

(4) Momentum

---

63. Force on an object can not change its :

(1) Shape

(2) Mass

(3) Direction

(4) Speed

---

64. The mass of a goods lorry is 3500 Kg and the mass of goods loaded on it is 1500 Kg. If the lorry is moving with a velocity 10m/s. What will be its momentum ?

(1) 25000 Kg m/s

(2) 30000 Kg m/s

(3) 40000 Kg m/s

(4) 50000 Kg m/s

---

65. SI unit of weight is :

(1) Kg

(2) Kg ms^{-1}

(3) N

(4) None of these

---

66. Which of the following materials cannot be used to make a lens ?

(1) Water

(2) Glass

(3) Clay

(4) Plastic

---

67. S. I. unit of power of lens is :

(1) Diopter

(2) Decibel

(3) Meter

(4) Gauss

---

68. The angle of incidence of any light passing through the centre of curvature of a spherical mirror is :

(1) $0°$

(2) $45°$

(3) $90°$

(4) $60°$

---

69. Refractive index of water w.r.t. air is 1.33. What is the refractive index of air w.r.t. water ?

(1) 0.75

(2) 0.50

(3) 75.0

(4) 0.25

---

70. The focal length of a convex lens is 18 cm and the size of the image is a quarter of the object. The object is situated at a distance of:

(1) 90 cm

(2) 54 cm

(3) 22.5 cm

(4) 60 cm

---

71. The range of vision of a normal human eye is from :

(1) 100m to 25cm

(2) infinity to 25m

(3) 1km to 25cm

(4) infinity to 25cm

---

72. Stars twinkle due to :

(1) atmospheric refraction

(2) atmospheric reflection

(3) scattering of light

(4) dispersion of light

---

73. Name the two phenomenon involved in the formation of rainbow :

(1) Dispersion and reflection of light

(2) Refraction and reflection of light

(3) Scattering and refraction of light

(4) Scattering and reflection of light

---

74. Unit of electrical current is :

(1) ampere

(2) coulomb

(3) joule

(4) volt

---

75. An electric bulb is connected to a 220 V generator. The current is 0.50 A. What is the power of bulb ?

(1) 110 watt

(2) 100 watt

(3) 220 watt

(4) 55 watt

---

76. The electric device used for producing electric current is called a :

(1) generator

(2) galvanometer

(3) ammeter

(4) motor

---

77. At the time of short circuit the current in the circuit :

(1) reduces substantially

(2) does not change

(3) increases heavily

(4) vary continuously

---

78. What kind of mirror would be best suited for use in Solar Cooker ?

(1) concave

(2) convex

(3) plain

(4) plano-concave

---

79. A Solar water heater cannot be used to get hot water on :

(1) cloudy day

(2) sunny day

(3) a hot day

(4) a windy day

---

80. The change in focal length of an eye lens is caused by the action of :

(1) pupil

(2) retina

(3) ciliary muscle

(4) iris

---

81. The phenomenon of splitting of white light through prism into a band of colours is called :

(1) Dispersion of light

(2) Reflection of light

(3) Refraction of light

(4) Scattering of light

---

82. A current of 0.5 ampere is drawn by a filament of an electric bulb for 10 minutes. Find the amount of electrical charge :

(1) 300 Coulomb

(2) 600 Coulomb

(3) 60 Coulomb

(4) 30 Coulomb

---

83. Which of the following is not an example of a bio mass energy source ?

(1) Wood

(2) Gober Gas

(3) Nuclear Energy

(4) Coal

---

84. A generator converts :

(1) electrical energy to mechanical energy

(2) mechanical energy to electrical energy

(3) mechanical energy to solar energy

(4) solar energy to electrical energy

---

85. The speed of light is :

(1) 3×10^8 meter/sec

(2) 3×10^{10} meter/sec

(3) 0.3×10^8 meter/sec

(4) 0.03×10^8 meter/sec

---

86. The charge of electron is :

(1) 1.6×10^{-19} Coulomb

(2) 16×10^{-19} Coulomb

(3) 0.16×10^{-19} Coulomb

(4) 166×10^{-19} Coulomb

---

87. The coil of a solenoid is made from :

(1) Silicon

(2) Carbon

(3) Germenium

(4) Copper

---

88. Magnetic field inside a long straight solenoid carrying current :

(1) is zero

(2) decreases as we move towards its end

(3) increases as we move towards its end

(4) is the same at all points

---

89. Voltmeter in a circuit is connected in :

(1) parallel

(2) series

(3) in any way

(4) none of these

---

90. Orested is the unit of :

(1) Magnetic field

(2) Electrical current

(3) Electrical field

(4) Magnetic current

Chemistry

91. The compound that can be purified by sublimation is :

(1) Ammonium Chloride

(2) Calcium Carbonate

(3) Sodium Carbonate

(4) Aluminium Chloride

---

92. A gel toothpaste is a mixture of a :

(1) liquid in a solid

(2) solid in a gas

(3) liquid in liquid

(4) gas in solid

---

93. During summer, water kept in an earthern pot becomes cool because of the phenomenon of :

(1) diffusion

(2) transpiration

(3) osmosis

(4) evaporation

---

94. Tincture of iodine has antiseptic properties. This solution is made by dissolving :

(1) iodine in potassium iodide

(2) iodine in acetone

(3) iodine in alcohol

(4) iodine in water

---

95. The Chemical symbol for tin is :

(1) Ti

(2) Sb

(3) Sn

(4) Te

---

96. The names of the elements present in quick lime are :

(i) Ca (ii) H (iii) O (iv) C

(1) (i), (ii) and (iii)

(2) (i), (iii) and (iv)

(3) (i) and (iii)

(4) (i), (ii), (iii) and (iv)

---

97. Which of the following has maximum number of atoms ?

(1) 18g of H_2O

(2) 18g of O_2

(3) 18g of CO_2

(4) 18g of CH_4

---

98. The number of electrons in an element X is 6 and the number of neutron is 8. Which of the following is the correct representation of the element ?

(1) ${}^{8}_{6}X$

(2) ${}^{14}_{6}X$

(3) ${}^{6}_{8}X$

(4) ${}^{14}_{8}X$

---

99. The ion of an element has 3 positive charges. Mass number of the atom is 27 and the number of neutrons is 14. What is the number of electrons in the ion ?

(1) 13

(2) 10

(3) 14

(4) 16

---

100. Isotopes of an element have :

(1) The same physical properties

(2) different chemical properties

(3) different number of neutrons

(4) different atomic number

---

101. The most abundant gas found in the earth atmosphere is :

(1) CO_2

(2) O_2

(3) CH_4

(4) N_2

---

102. Select from the following a set of three metals which are found in free state :

(1) Al, Cu, Ag

(2) Au, Fe, Ag

(3) Cu, Au, Fe

(4) Ag, Au, Pt

---

103. The gas which may cause explosion in coal mines is :

(1) Methane

(2) Ethane

(3) Nitrogen

(4) Oxygen

---

104. Which of the following is the most electronegative element in the periodic table ?

(1) Oxygen

(2) Nitrogen

(3) Flourine

(4) Chlorine

---

105. Natural Rubber obtained from Rubber tree is basically a polymer of :

(1) Ethylene

(2) Propylene

(3) Acetylene

(4) Isoprene

---

106. Metal, which will displace hydrogen from dilute HCl is :

(1) Ag

(2) Au

(3) Mg

(4) Cu

---

107. Which was the first organic compound synthesized in the laboratory ?

(1) Methane

(2) Urea

(3) Thiourea

(4) Ethanol

---

108. Which of the following is a member of the Halogen family ?

(1) Cl

(2) Ca

(3) Cu

(4) Cr

---

109. The metal most commonly used for making filament of an electric bulb is :

(1) Tungsten

(2) Copper

(3) Silver

(4) Aluminium

---

110. Vinegar, used in kitchen is a dilute solution of :

(1) Oxalic Acid

(2) Citric Acid

(3) Benzoic Acid

(4) Ethanoic Acid

---

111. When water is poured over sodium peroxide, which colourless gas is produced ?

(1) Dihydrogen

(2) Ozone

(3) Dioxygen

(4) Dinitrogen

---

112. Sodium metal is usually stored under :

(1) Water

(2) Kerosene Oil

(3) Alcohol

(4) Hydrogen

---

113. Galvanized Iron (GI) sheets are coated with :

(1) Sn

(2) Ni

(3) Cu

(4) Zn

---

114. The most abundant element found in the earth's crust is :

(1) O

(2) Cl

(3) Si

(4) S

---

115. Calamine is an ore of which of the following ?

(1) Ca

(2) Zn

(3) Mg

(4) Hg

---

116. The red colouring pigment Haemoglobin in our blood contains which metal ?

(1) Fe

(2) Co

(3) Mg

(4) Na

---

117. Which of the following organic compounds will exhibit Geometrical Isomerism ?

(1) Butanol-2

(2) Butene-1

(3) Butene-2

(4) Butyne-1

---

118. The most pure form of Iron is :

(1) Cast Iron

(2) Pig Iron

(3) Wrought Iron

(4) Steel

---

119. The property of carbon element responsible for a large number of organic compounds is :

(1) Allotropy

(2) Catenation

(3) Hybridisation

(4) None of these

---

120. Which of the following is a natural polymer ?

(1) Bakelite

(2) PVC

(3) Polythene

(4) Protein

Biology

121. Which one is made of dead cells :

(1) Parenchyma

(2) Meristematic tissues

(3) Sclerenchyma

(4) Companion cells

---

122. Nodules with nitrogen-fixing bacteria are present in :

(1) Musturd

(2) Gram

(3) Wheat

(4) Cotton

---

123. Which of the following is not a green-house gas ?

(1) Methane

(2) Carbon-di-oxide

(3) Carbon mono-oxide

(4) Ammonia

---

124. Kala-azar is caused by :

(1) protozoan

(2) fungus

(3) bacteria

(4) virus

---

125. Amphibians do not have the following :

(1) three chambered heart

(2) gills or lungs

(3) scales

(4) mucus glands

---

126. Which of the following species of honey bee is an Italian species ?

(1) Apis mellifera

(2) Apis dorsata

(3) Apis florae

(4) Apis cerana indica

---

127. Enzyme present in the saliva of human being ?

(1) Pepsin

(2) Trypsin

(3) Tylin

(4) Lipase

---

128. Oxygenated blood is present in :

(1) Right auricle

(2) Pulmonary artery

(3) Right ventricle

(4) Pulmonary vein

---

129. Evaporation of water from the surface of leaf is called :

(1) Respiration

(2) Photosynthesis

(3) Transpiration

(4) Evaporation

---

130. Auxin is a :

(1) Plant harmone

(2) Enzyme

(3) Fat

(4) Protein

---

131. Asexual reproduction by budding is present in :

(1) Amoeba

(2) Spirogyra

(3) Moss

(4) Yeast

---

132. Example of homologous organs is :

(1) Fore arm of human and wings of bird

(2) Wings of insect and bird

(3) Vermi form appendix and nictilating membrane

(4) Muscles of pinna and tail vertebrae

---

133. Energy stored in respiration :

(1) In the form of ADP

(2) In the form of ATP

(3) In the form of NADP

(4) In the form of PI

---

134. Example of bisexual flower is :

(1) Papaya

(2) Hibiscus

(3) Cucumber

(4) Maize

---

135. Bowman's capsule is present in :

(1) Small intestine

(2) Kidney

(3) Heart

(4) Brain

English

136. Fill in the blanks with correct form of the verb :

I finished my home-work while my mother ..... the food.

(1) cooked

(2) was cooking

(3) had cooked

(4) cook

---

137. Fill in the blanks with correct word :

I prefer milk ..... Coffee.

(1) to

(2) than

(3) of

(4) for

---

138. Find the correct spelling :

(1) desicion

(2) decision

(3) desision

(4) decicion

---

139. The correct narrated form of the given sentence is :

"I will go to Delhi tomorrow," he told me.

(1) He told me that I would go to Delhi tomorrow.

(2) He told me that he will go to Delhi the next day.

(3) He told me that he would go to Delhi the next day.

(4) He told me that he would go to Delhi tomorrow.

---

140. Fill in the blank with correct word :

The Principal is giving ..... the prizes.

(1) into

(2) away

(3) for

(4) at

---

141. Fill in the blank with correct word :

Can I give you some ..... ?

(1) advise

(2) advised

(3) advising

(4) advice

142. Find the correct auxiliary verb for the following sentence :

One or the other of those fellows ..... stolen the car.

(1) has

(2) have

(3) has been

(4) have been

---

143. Choose the sentence which is grammatically correct :

(1) Politics are not meant for students.

(2) New Delhi is a capital of India.

(3) Many a man has done so.

(4) The novelist and poet are dead.

---

144. Find the correct antonym to the underlined word :

There was a marked improvement in his condition.

(1) reformation

(2) amendment

(3) deterioration

(4) revision

---

145. Choose the correct narrated form for the following sentence :

He said to me, "Where are you going?"

(1) He says where I am going.

(2) He told me where I was going.

(3) He asked me where they are going.

(4) He asked me where I was going.

---

146. Choose the right option for the synonym of the underlined word :

We must eradicate corruption.

(1) minimise

(2) uproot

(3) condemn

(4) control

---

147. Choose the correct passive form of the following sentence :

I have already seen this movie.

(1) This movie is alredy seen by me.

(2) This movie has already seen by me.

(3) This movie was already seen by me.

(4) This movie has already been seen by me.

---

148. Fill in the blank with the correct word :

Security arrangements have been tightened up in all ..... areas.

(1) sensible

(2) sensual

(3) sensitive

(4) sensational

---

149. Choose the correct option for the following sentence :

If I had worked hard, I ..... very high marks in the examination.

(1) would have scored

(2) scored

(3) would score

(4) could score

---

150. Choose the right option which best expresses the meaning of the underlined idiom :

The luxury car that they bought turned out to be a white elephant.

(1) a rare article

(2) useful mode of transport

(3) costly or trouble some possession

(4) a proud possession
