

1. Choose the word or phrase opposite meaning to the given word "reciprocal".
a. rash b. unilateral
c. recovery d. prompt
2. Chose the word or phrase opposite in meaning to the given "nimble".
a. Lazy b. jest
c. mix d. active
3. Chose the word or phrase similar in meaning to the given word "Swelter"
a. Swing b. stifling
c. swerve d. sweep
4. Choose the word or phase similar in meaning to the word "parody".
a. irony b. laughing
c. comedy d. lampoon
5. Choose the word or phase similar in meaning to the given word "Swill".
a. neat b. boil
c. rinse d. shout
6. Choose the single word to the expression "a interested in the study of ancient things".
a. Antiquarian b. ascetic
c. optimist d. amiable
7. Choose the single word to expression "false reasoning intended to deceive".
a. monism b. sophism
c. atheism d. pacifism
8. Pick up the correct phrasal verb to the given expression, "Despite war threat people.....their business as usual"
a. go on b. go off
c. go about d. go ahead
9. Pick up the correct phrasal verb to the given expression. "He..... and Finished cleaning the house with in an hour".
a. set out b. set on
c. set to d. set up
10. Choose the right meaning to the idiomatic expression "a rough patch"
a. easy going b. foolish idea
d. success d. time trouble
11. Choose the right meaning to the idiomatic expression "spread like wild fire".
a. spread quickly and to all parts (humors)
b. run very fast
c. treat
d. good memory

Fill in the prepositions in blank spaces.

12. He has good ear... music but stick... grammar
a. in..in b. at..in
c. by...on d. for...with
13. Fill in the right preposition is in blank spacels. He has good ear.... Music but sick grammar exercise

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- a. for.....for b. of.....of
c. for.....of d. on.....by
14. Fill in the right prepositions in blank spacels "I'm interested..... cricket but I'm not very good...it"
a. in.....in b. at.....at
c. for....with d. in....at
15. The word "xy lophone" has it's prime stress on...
a. 1st syllable b. 2nd syllable
c. 3rd syllable d. none
- Physics (25 × 1 = 25)**
16. The quantity having no dimension is,
a. Mass b. Velocity
c. Angle d. Pressure
17. A vector is multiplied by 2, then
a. direction reverses and unit change.
b. direction reverses and magnitude is doubled.
c. direction remains unchanged but unit changes.
d. neither direction reverses nor unit changes but magnitude is doubled
18. The horizontal range is $4[3]^{1/2}$ times the maximum height in a projectile motion. The angle of projection is
a. 15° b. 30° c. 45° d. 60°
19. The slope of kinetic energy versus position vector gives the rate of
a. kinetic energy b. momentum
c. potential energy d. acceleration
20. The work done to blow a soap bubble of radius "R" is W, then work done to increase radius from R to 3R is
a. 2W b. 4W c. 8W d. 9W
21. A boy is carrying a bucket of water in one hand and a piece of plastic in other hand. If he transfers plastic in bucket which floats, Then the boy feels
a. same load
b. more load
c. less load
d. depends upon density of plastic
22. Fire dram works on principle of
a. Volume expansion of solid.
b. Volume expansion of water.
c. Volume expansion of gas.
d. Bimetallic bar which becomes curved on heating.
23. The critical angle of light passing from glass to air is minimum for
a. red b. violet
c. green d. yellow
24. A stone is dropped into a well 78.4m deep. The splash sound is noticed after (velocity of sound in air is 350 m/s)
a. 2.4s b. 3.6s
c. 4.2s d. 6.8s.
25. Latent heat of substance is zero at
a. boiling point b. melting point
c. critical temperature d. freezing point
26. Two fixed charges q and $4q$ are r distant apart. What will be the position of third charge to be placed so that the system will be in equilibrium?
a. $2r/3$ from $4q$ b. $\frac{r}{2}$ from q
c. $2r$ from q d. $r/2$ from $4q$
27. Two lens of power $r q$ and $-7.rw$ are place in contact the equivalent focal length of combination will be.
a. -40 cm b. -25cm
c. +40cm d. +25cm
28. Whenever the magnetic flux linked with a coil changes, there is emf induced in a circuit. The emf lasts
a. for a short time
b. forever
c. for a long time

- d. 80 long as the change in flock takes place
29. In LCR circuit, the inductive reactance at resonance frequency is 100Ω and resistance is 5Ω the quality factor of circuit is.
a. 5000 b. 20 c. 500 d. 95
30. At a point on the axis of an electric diploe
a. The electric field E is Zero.
b. The electric potential r is zero.
c. Neither V nor E is zero.
d. both E and V are zero
31. A circuit contains a capacitor of 420 H and inductance L. The value of "L" to broadcast on radio 1020 KHZ is.
a. $2.8 \times 10^{-5}H$ b. $r.8 \times 10^{-7}H$
c. $7.6 \times 10^{-5}H$ d. $9.6 \times 10^{-6}H$
32. At neutral temperature the thermoelectric power is
a. Maximum b. Minimum
c. Infinite d. Zero
33. The study of photoelectric effect is useful in understanding
a. quantization on energy
b. quantization of charge
c. conservation of charge
d. conservation of energy
34. The kinetic energy carried by emitted electron depends on
a. frequency b. work carried
c. intensity d. momentum
35. A nucleus reactor has a power of 10 kw if the energy per fission is 200 Mev then the number of fission per second is
a. 5×10^{17} b. 5×10^{15}
c. 5×10^{16} d. 5×10^{14}
36. The half-life of radioactive sample is 10 years. It means life is
a. 12.43 years b. 14.43 years
c. 16.43 years d. Same as half life
37. NPN transistors are most preferred than that of PNP transistor. It is become of
a. Low Cost
b. Low dissipation of energy
c. capable of handling low power
d. Electrons have high mobility than holes
38. Induced emf produced across the axle is maximum when it moves
a. at the poles
b. at the equator
c. remains stationary
d. no emf induced at all
39. Atomic power station at Gujrat has a generating capacity of 200mw. What will be the energy released in a day by the station?
a. $1.43 \times 10^{13} j$ b. $1.53 \times 10^{13} j$
c. $1.63 \times 10^{13} j$ d. $1.73 \times 10^{13} j$
40. If germanium is doped with donor impurity the donor atom should be
a. tetravalent b. trivalent
c. pentavalent d. quatravalent

Chemistry (25 × 1 = 25)

41. Benzene molecule is
a. planar b. trigonal
c. pyraruidal d. tetrahandral
42. Ethanol and diethyl ether are
a. Positional isomers b. metameres

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- c. Chainisomres d. functional isomers
43. The function of myoglobin is
a. Storage of oxygen
b. Storage of metalions
c. Transport of oxygen
d. all of the above
44. Bronze is an alloy of
a. Cu&zn b. Cu &Sn
c. Fe& Carbon d. zn & Fe
45. The reaction of Conc. HNO_3 with iron gives.
a. $Fe(NO_3)_3$ b. Fe_2O_3
c. Fe_3O_4 d. $Fe(NO_3)_2$
46. PbO is an example of
a. amphoteric oxide b. neutral Oxide
c. acidic Oxide d. basic Oxide
47. Oxidation number of CL in $NaClO_3$ is
a. 0 b. -1
c. +5 d. +1
48. The Shape of PCl_5 molecule based on VSEPR theory is
a. Octahedral b. trigonal bipyramidal
c. trigonal planar d. Pentagonal bipyramidal
49. According to IUPAC classification of elements noble gas are placed in group
a. 18 b. 17
c. 3 d. 2
50. The principle quantum number of an atom is related to the
a. Shape of subshell
b. size of the shell
c. Orien tation of the orbitals
d. Spain of the electron
51. The number of molecules in 32.0g of Oxygen gas is
a. 6.023×10^{23} b. 3.023×10^{21}
c. 6.023×10^{22} d. 6.023×10^{20}
52. A mixture containing camphor & sand can be Separated by
a. Crystallization b. filtration
c. sedimentation d. Sublimation
53. Titration bet Silver nitrate & Sodium chloride is called
a. Complex metric titration
b. Precipitation titration
c. redox titration
d. acid base titration
54. Ostwald's dilution law is applied for the ionization of
a. NH_4Cl b. $NaOH$
c. NH_4OH d. $NaCl$
55. The unit of first Order rate Constant is
a. $time^{-1}conc^{-1}$ b. $time conc^{-1}$
c. $conc. time^{-1}$ d. $time^{-1}$
56. The apparatus used for the experimental determination of heat of a reaction is called
a. Calorimeter b. thermometer
c. colorimeter d. voltmeter
57. The eq^n used to calculate the emf of an electrochemical cell is
a. Boltzmann eq^n b. Henderson's eq^n
c. Nernst eq^n d. Ostwald's eq^n
58. Which of the following acid has highest boiling point?
a. $HCOOH$ b. CH_3COOH

- c. C_2H_5COOH d. C_3H_7COOH
59. Talen's reagent is
a. ammoniacal Silver nitrate Sol^n
b. ammonical Silver bromide
c. ammonical Cuprous Chloride
d. ammonical cuprous oxide
60. Picric acid is obtained by the nitration of
a. aniline b. benzene
c. phenol d. benzoic acid
61. When Chloroform is heated with zinc dust and water it gives:
a. CH_4 b. CH_2Cl_2
c. C_2H_4 d. C_2H_6
62. Cinnabar is ore of
a. Fe b. Cu c. Hg d. Zn
63. N_2O gas is evolved when copper reacts with
a. conc HNO_3
b. dilute HNO_3
c. Moderately conc NHO_3
d. hot and conc HNO_3
64. The number of unpaired electron present in 3d-orbital of Fe^{3+} ion is
a. 4 b. 3 c. 5 d. 6
65. Gypsum used in cement manufacturing process acts as
a. retarder b. accelerator
c. plasticizer d. both a and b

Mathematics (25 × 1 = 25)

66. A first degree equation x and y always represents a
a. Circle b. Straight line
c. par of straight line d. parabola
67. If $|y - 3| \leq 7$, then
a. $-4 \leq y \leq 10$ b. $-2 \leq y \leq 5$
c. $-2 \leq 2y \leq 5$ d. $-4 \leq y \leq 4$
68. For any two non-empty sets A and B, $A-B =$
a. $A \cup B$ b. $A \cap B$
c. $A \cap \bar{B}$ d. $B \cap \bar{A}$
69. If $f(x) = 1 - x$ then f of $f(x)$
a. $(1 - x)^2$ b. $1 - x$
c. $1 + x$ d. x
70. The function $f(x) = x + 2x^3$ is
a. even
b. odd
c. both even and odd
d. neither odd or even
71. The sum of the infinite series $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \dots$
a. does not exit b. 0
c. $\frac{2}{3}$ d. none
72. if $A = \begin{bmatrix} 1 & x+2 \\ 2x+2 & 3 \end{bmatrix}$ is a symmetric then x=
a. 1 b. 2 c. 0 d. does
73. If W is the root of unity, then $\begin{bmatrix} 1 & w & w^2 \\ w & w^2 & 1 \\ w^2 & 1 & w \end{bmatrix} =$
a. 1 b. 2 c. 0 d. w
74. The imaginary part of $\frac{2i^2}{(1+i)^2}$
a. 0 b. 2 c. -i d. 1
75. The value of k for which one root of the equation $px^2 - qx + k = 0$ is reciprocal of the other is
a. q b. -p c. p d. 0

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76. If $4 \cos^2 x - 1 = 0$, then for $n \in \mathbb{Z}$, $x =$
 a. $n\pi \pm \frac{\pi}{3}$ b. $-\frac{\pi}{3}$ c. $n\pi + \frac{\pi}{3}$ d. $\frac{\pi}{3}$
77. $2 \cos^{-1} x =$
 a. $\cos^{-1}(2x^2 - 1)$ b. $\cos^{-1}(x^2 - 1)$
 c. $\cos^{-1}(1 - 2x^2)$ d. $\cos^{-1} x^2$
78. The point on the x-axis at distance of 5 units from the line $3x + 4y = 8$
 a. (8,0) b. (11,0)
 c. (0,11) d. (0,8)
79. If the angle between the lines represented by $kx^2 + xy - y^2 = 0$ is 90° , then $k =$
 a. 1 b. 2 c. 5 d. 6
80. The distance of a point (3,5,9) from yz plane is ,
 a. 9 b. 5 c. 3 d. 17
81. The two vectors $i + 3k + j$ and $3i + nk + 3j$ are collinear if $n =$
 a. 0 b. 3 c. 1 d. 9
82. A distribution is symmetrical if
 a. Mean > Median > mode
 b. Mean < Median < Mode
 c. Mean = Median = Mode
 d. Mean = Median
83. While two coins are tossed once, the probability of getting two tails is
 a. $\frac{1}{2}$ b. $\frac{1}{4}$ c. $\frac{3}{4}$ d. $\frac{1}{3}$
84. $\lim_{x \rightarrow 0} \frac{\sin 2x + 4x}{x} =$
 a. 6 b. 0 c. $\frac{0}{0}$ d. 5
85. If $y = e^{\log(\sin(x^2))}$, then $\frac{dy}{dx} =$
 a. $xy \tan x^2$ b. $2xy \cot x^2$
 c. $2x \tan x^2$ d. $2x \cot x^2$
86. The function $x^3 - 12x + 8$ has maximum at $x =$
 a. -2 b. 2 c. 0 d. 8
87. $\int_1^2 \frac{\cos(\log x)}{x} dx$
 a. $-\sin(\log 2)$ b. $-\cos(\log 2)$
 c. $\sin(\log 2)$ d. 0
88. The Equation $f(x) = 0$ has at least one root in (a, b) where $f(x)$ is continuous in (a, b) if
 a. $f(a)f(b) > 0$ b. $f(a)f(b) < 0$ c. $f(a)f(b) = 0$
 d. $f(a)f(b) \geq 0$
89. Magnitude of the two forces P and Q Will be maximum when the both force act
 a. In opposite direction
 b. 90° to each other
 c. 45° to each other
 d. in the same direction
90. If a body thrown vertically upward with a velocity of 40 ms^{-1} from the top of a tower, hits the ground after 10 second, then the height of the tower is [$g = 10 \text{ ms}^{-2}$]
 a. 200m b. 130m
 c. 100m d. 40m
- General IT (10 × 1 = 10)**
91. What is the Scientific name of the computer?
 a. Homo silicon b. Homo Digitalis
 c. Homo Computatrix d. Silico sapiens
92. What terms describe the action of code scrambling?
 a. Encryption b. obfuscation
 c. Segmentation d. Aggregation
93. In 1999, the Melissa virus was widely publicized which is
 a. Internet meme b. E-mail virus
- c. Music album d. Online shopping trend
94. What term refers to the geometric arrangement of devices on a network?
 a. Architecture b. Topology
 c. Configuration d. Infrastructure
95. What is the personal computer operating system that organizes and uses a graphic desktop environment?
 a. DOS b. Linux
 c. Windows d. Masos
96. In the context of computer memory what does DMA Stand for?
 a. Data Manipulation Algorithm
 b. Direct Memory Access
 c. Digital Media Adapter
 d. Dynamic Memory All
97. What is the name of an application program that gather user information and sends it to someone through the internet?
 a. Antivirus b. firewall
 c. Spybot d. Browsers
98. Which type of file is created by the excel program
 a. Document file
 b. data file
 c. Portable document format file
 d. workbook file
99. Text or graphics while copying is temporarily store in
 a. Clipboards b. cache
 c. RAM d. ROM
100. A computer conolled device for tanning exercise duplicating the work environment is called
 a. Accumulator b. simulator
 c. Network d. pre-Accumulate