

Admission Test

SECTION I ENGLISH (QUESTION 1-25)

Choose one of the options that is Synonymous to the word given.(1-5)

1. ABLUTION
 - a) Censure
 - b) Forgiveness
 - c) Survival
 - d) Washing
2. COHESION
 - a) Independence
 - b) Sticking together
 - c) Shift
 - d) Climbing
3. ABORTIVE
 - a) Unsuccessful
 - b) Consuming
 - c) Familiar
 - d) Fruitful
4. SATIRE
 - a) Celebrate
 - b) Permeate
 - c) Rumour
 - d) Sarcasm
5. PSEUDO
 - a) False
 - b) First
 - c) Forward
 - d) Favor

Choose one of the options that is Antonymous to the word given in capital. (6-10)

6. AFFECTED
 - a) Weary
 - b) Unfeigned
 - c) Slow
 - d) Unfriendly
7. AMBIGUOUS
 - a) Responsible
 - b) Clear
 - c) Corresponding
 - d) Auxiliary
8. AUTONOMY
 - a) Submissive
 - b) Dependence
 - c) Subordination
 - d) Slavery

- 9. SHALLOW
 - a) Deep
 - b) High
 - c) Hidden
 - d) Hollow
- 10. SYNTHETIC
 - a) Cosmetic
 - b) Plastic
 - c) Affordable
 - d) Nature

Analogy questions. (11-15)

A is the defining characteristic of B

- 11. CONDEMNATION :DISAPPROVAL
 - a) Ignorance: patience
 - b) Optimism: insight
 - c) Sorrow: intention
 - d) Humor: comedian
- 12. “A” follows B in sequence (in a matter of cause effect relationship) “B”
REHEARSAL: PERFORMANCE
 - a) Stumble: Fall
 - b) Engagement: Marriage
 - c) Antidote: illness
 - d) Convict: sentence
- 13. “A” is the tool used for “B”
SCALPEL: SURGEON
 - a) Pen: Reader
 - b) Bed: Patient
 - c) Auto: Soldier
 - d) Bow: Violinist
- 14. “A” is the mirror image of “B”
RETIERMENT: SERVICE
 - a) Employment: service
 - b) Arrangement: flower
 - c) Contract: Agreement
 - d) Graduation: Studies
- 15. “A” is the place where one would find “B”
PROFESSOR: CLASSROOM
 - a) Umpire: Playing ground
 - b) Carpenter: cabinet
 - c) Judge: Courtroom
 - d) Farmer: Field

Complete the sentences.(Questions 16-25)

- 16. I insisted -----my fee paid.
 - a) to have
 - b) on having

- c) to having
d) in having
17. I am intent -----
a) to win
b) of winning
c) on winning
d) for winning
18. The child -----crying for three hours.
a) is
b) has
c) has been
d) have been
19. We have -----trust in you.
a) Perfect
b) Entire
c) imperative
d) absolute
20. He -----our help
a) Resents
b) Recants
c) Remove
d) Resign
21. He is -----for Promotion.
a) Illegible
b) Legible
c) eligible
d) in eligible
22. He -----get up early
a) used
b) used to
c) is used to
d) was used to be
23. We congratulate him -----
a) on his success
b) for his success
c) at his success
d) in his success
24. I will meet him when he ----
a) will come
b) had come
c) would have come
d) comes
25. We will do our work -----
a) Latter
b) Later
c) Long
d) After

**SECTION II
MATHEMATICS (QUESTION 26-50)**

26. If $3(p+5q)=24$, then what is the value of q , when $p=3$?
- a. 1 b. 5 c. 9
d. 3 e. 7
27. A number which is divisible by both 6 and 8 is also divisible by:
- a. 7 b. 5 c. $\frac{10}{3}$
d. 9 e. 24
28. If $x = -3$ and $y = -1$, then $3x^2 - 2y =$
- a. 25 b. -25 c. -29
d. 29 e. 83
29. $\frac{3}{40}$ is same as:
- a. 0.075 b. 0.0075 c. 0.75
d. 0.1333 e. 0.0133
30. When -6 is added to -6, the sum is:
- a. +12 b. -12 c. +36
d. -36 e. 0
31. What is the sum of 0.629, 4.3, and 2?
- a. 6.929 b. 6.74 c. 0.1259
d. 12.59 e. 21.56
32. Of the 20 people who won prize money, 7 have come forward to claim their winnings. What percent of the people have not yet appeared?
- a. 35% b. 20% c. 65%
d. 70% e. 42%
33. The sum of five odd numbers is always:
- a. even b. divisible by five c. divisible by three
d. a prime number e. none of these
34. If it is now March, what month will be after the 100 months from now?
- a. March b. April c. July
d. August e. September
35. If $3x+9=18$, what is the value of $x+3$?
- a. 3 b. 6 c. -3
d. 36 e. 30
36. If $6 - a > 7$, then
- a. $a > 1$ b. $a > -1$ c. $a < -1$
d. $a < 1$ e. $a \leq 1$
37. In a certain class, if there are 35 men and 63 women, then the ratio of men to women is:
- a. $\frac{7}{20}$ b. $\frac{3}{7}$ c. $\frac{5}{9}$
d. $\frac{5}{7}$ e. $\frac{7}{9}$
38. If $x = 3$ and $y = -3$, what is the value of $(3+x)(3-y)$?
- a. -36 b. -12 c. 0

- d. 12 e. 36
39. If $y = 2x - 1$, what is the value of x in terms of y ?
- a. $\frac{y}{2} - 1$ b. $\frac{y}{2} - \frac{1}{2}$ c. $\frac{y}{2} + \frac{1}{2}$
- d. $\frac{y}{2} + 1$ e. $y + \frac{1}{2}$
40. $\frac{2 \times 2 \times 2 \times 2 \times 2}{2 + 2 + 2 + 2}$
- a. 1 b. 2 c. 4
- d. 8 e. 16
41. Which of the following is a multiple of both 7 and 13 ?
- a. 52 b. 65 c. 77
- d. 156 e. 182
42. $3 \times \frac{2}{3} =$
- a. $\frac{1}{3}$ b. 1 c. 3
- d. 6 e. $6\frac{1}{2}$
43. If x equals 25 percent of a number, then 125 percent of the number is
- a. $\frac{x}{125}$ b. $\frac{x}{4}$ c. $1.25x$
- d. $4x$ e. $5x$
44. If the value of a certain fraction is equal to 0.4 and the denominator of the fraction is 15, then the numerator of the fraction is
- a. 6 b. 8 c. 9
- d. 12 e. 37.5
45. How many of the positive integers less than 25 are 2 less than an integer multiple of 4 ?
- a. Two b. Three c. Four
- d. Five e. Six
46. $(3 \times 100) + (4 \times 1) + (5 \times 1,000) + (6 \times 10) =$
- a. 3,456 b. 3,564 c. 4, 635
- d. 5,346 e. 5,364s
47. Of the following, which is the most nearly equal to $\frac{2}{3}$?
- a. $\frac{3}{4}$ b. $\frac{5}{6}$ c. $\frac{7}{9}$
- d. $\frac{11}{15}$ e. $\frac{19}{21}$
48. A secretary typed 6 letters, each of which had either 1 or 2 pages. If the secretary typed 10 pages in all, how many of the letters had 2 pages?
- a. 1 b. 2 c. 3
- d. 4 e. 5
49. A train travels 60 miles per hour for 3 hours and then 45 miles per hour for 2 hours. What is the train's average speed in miles per hour during the 5 hour period?
- a. 55 b. 54 c. 52
- d. 51 e. 50
50. What is the area of a circular region that has circumference 8π ?
- a. 4π b. 8π c. 16π

d. 32π

e. 64π

SECTION III
Subject based (QUESTION 50-100)

51. The resultant of a 3-newton and a 4-newton force which act on an object in opposite directions to each other is, in Newton:
- a. 0 b. 1 c. 5 d. 7 e. 12
52. Light passes through two parallel slits and falls on a screen. The pattern produced is due to interference and
- a. Reflection b. Refraction c. Polarization d. diffraction
e. absorption
53. A change of temperature of 50°C is equivalent to a temperature change of
- a. 323 K b. 273 K c. -273 K
d. 50 K e. 100K
54. The amplitude of a sound wave is detected as its:
- a. wavelength b. frequency c. pitch d. resonance
e. loudness
55. The velocity of light in a medium depends on its frequency, the medium is said to be:
- a. coherent b. refractive c. dispersive d. diffractive
e. resonant
56. A handball is tossed vertically upward with a velocity of 19.6 meters per second. Approximately how high will it rise?
- a. 15 m b. 20 m c. 25 m d. 30 m e. 60 m
57. As the temperature of a solid increases, its specific heat:
- a. increases b. decreases c. increases, then decreases
d. decreases, then increases e. remains the same
58. Radiation is the chief method of energy transfer
- a. from the sun to the earth b. from a gas flame to a water
c. from a soldering iron to metals being soldered d. from water to an ice
e. from a mammal to surrounding air
59. The work done to a system is characterized as:
- a. positive b. negative c. either positive or negative
d. indeterminate e. of no consequence
60. Dark, rough objects generally good for:
- a. conduction b. radiation c. convection
d. reflection e. refraction
61. How many milligrams are in 0.2 decigrams?
- a. 20 milligrams
b. 2000 milligrams
c. 0.002 milligram
d. 0.00002 milligram
62. How many valence electrons does an oxygen atom have?
- a. 2
b. 6
c. 8
d. 16

63. The identity of an element is determined by...
- the number of its protons.
 - the number of its neutrons.
 - the number of its electrons.
 - its atomic mass.
64. Which of the following is the correct electron-dot formula for water?
- (a) $\text{H}-\overset{\cdot\cdot}{\underset{\cdot\cdot}{\text{O}}}-\text{H}$
- (b) $:\overset{\cdot\cdot}{\text{H}}-\overset{\cdot\cdot}{\underset{\cdot\cdot}{\text{O}}}-\overset{\cdot\cdot}{\underset{\cdot\cdot}{\text{H}}}:$
- (c) $\text{H}-\overset{\cdot\cdot}{\underset{\cdot\cdot}{\text{O}}}-\text{H}$
- (d) $\text{H}-\overset{\cdot\cdot}{\underset{\cdot\cdot}{\text{O}}}-\text{H}$
65. Which of the following represents the correct formula for aluminum oxide?
- AlO
 - Al₂O₃
 - AlO₂
 - Al₂O
66. Which of the bonds, shown by the dash, has the greatest polarity?
- H-Cl
 - H-NH₂
 - H-OH
 - H-SH
67. What is the major attraction between water molecules in the solid physical state?
- dipole-dipole interactions
 - Electrostatic interactions between charged atoms
 - hydrogen-bonds
 - Physical entanglement of the molecules
68. Which of the following is the correct name for NaHCO₃?
- Sodium hydrogen carbonate
 - Sodium acetate
 - Nitrogen hydrogen carbonate
 - Sodium hydrogen carbon trioxide
69. In which of the following compounds does ionic bonding predominate?
- NH₄Cl
 - CO₂
 - CH₄
 - LiBr
70. Which of the following elements has the greatest electro negativity?
- Si
 - P
 - N
 - O
71. Matter has _____.
- no mass but occupies space
 - mass but occupies no space
 - mass and occupies space
 - no mass and occupies no space

72. In gases, particles vibrate _____.
- (a) About their mean position
 - (b) About a vertical axis
 - (c) About a horizontal axis
 - (d) In any direction
73. A property not possessed by a fluid is _____.
- (a) It can flow
 - (b) It has mass
 - (c) It has a definite shape
 - (d) Can be perceived by our senses
74. A solid that sublimates on heating is _____.
- (a) Sodium chloride
 - (b) Copper sulphate
 - (c) Lead sulphate
 - (d) Ammonium chloride
75. Temperature is a measure of:
- (a) Total kinetic energy of molecules
 - (b) Total potential energy of molecules
 - (c) Average potential energy of molecules
 - (d) Average kinetic energy of molecules
76. A natural phenomenon that becomes harmful due to pollution is _____.
- (a) global warming
 - (b) ecological balance
 - (c) greenhouse effect
 - (d) desertification
77. The pollutant responsible for ozone holes is _____.
- (a) CO₂
 - (b) SO₂
 - (c) CO
 - (d) CFC
78. One of the best solutions to get rid of non-biodegradable wastes is-----
- (a) burning
 - (b) dumping
 - (c) burying
 - (d) recycling
79. Animal dung is _____ waste.
- (a) Biodegradable
 - (b) non-biodegradable
 - (c) hazardous
 - (d) toxic
80. Which of the following is biodegradable?
- (a) iron nails
 - (b) plastic mugs

- (c) leather belts
 - (d). silver foil
81. In a lake polluted with pesticides, which one of the following will contain the maximum amount of pesticides?
- (a). small fish
 - (b) microscopic animals
 - (c) . big fish
 - (d). water birds
82. Which of the following is *not* a major greenhouse gas?
- a). Methane
 - b). Carbon Dioxide
 - c). Water vapor
 - (d) Calcium Carbonate
83. An increase in the atmospheric level of automobile exhaust gases does not lead to-
- (a) Pb Pollution
 - (b) O₂ Pollution
 - (c) Particulate air pollution
 - (d) O₃ Pollution
- 84-Among the following environmental pollutants has the problem of biomagnifications-
- (a) SO₂
 - (b) NO₃
 - (c) Hg fungicides
 - (d) O₃ & CO₂
85. The compound mainly responsible for pollution which caused the ill famed Bhopal gas tragedy was-
- (a) NH₄OH
 - (b) CH₃NCO
 - (c) CH₃NH₂O
 - (d) CHCl₃
- 86- Eutrophication of water bodies resulting to killing of fishes is mainly due to-
- (a) Non-availability of food
 - (b) Non-availability of light
 - (c) Non-availability of oxygen
 - (d) Non-availability of essential minerals
87. The pyramid of biomass will be inverted in the ecosystem of-
- (a) Forests
 - (b) Ponds
 - (c) Grasslands
 - (d) Dry lands
88. UV radiations is injurious to plants because it-
- (a) Break phosphate bonds
 - (b) Increases respiration
 - (c) Causes dehydration
 - (d) Causes genetic changes
- 89- The most stable ecosystem could be-
- (a) Ponds
 - (b) Oceans

- (c) Desert
 - (d) Forest
- 90- Pollution of big cities can be controlled to large extent by-
- (a) Wide roads and factories away from city
 - (b) Cleanliness drive and proper use of pesticides
 - (c) Proper sewage and proper exit of chemicals from factories
 - (d) All of the above
- 91- "Green house effect" with respect to global warming refers to-
- (a) Cooling & moist condition
 - (b) Warming effect
 - (c) Increased rainfall & greenery
 - (d) Desertification
92. The combination of which of the following soils is best for plant growth
- (a) Clay, sand & gravel
 - (b) Humus, clay & gravel
 - (c) Sand, humus & gravel
 - (d) Humus, sand & clay
- 93 - Which of the following does not belong to the group formed by the other trees?
- (a) Mango
 - (b) Coconut
 - (c) Tamarind
 - (d) Neem
- 94- In spring which of the following occurs?
- (a) The days are longer & nights are shorter
 - (b) The nights are longer & days are shorter
 - (c) Days and nights are of almost equal duration
 - (d) None of the above
- 95- Which of the following plays an important role in the cause of rainfall
- (a) Evaporation
 - (b) Condensation
 - (c) Both evaporation & condensation
 - (d) Filtration
- 96- A human body consists of _____ number of bones
- (a) 205
 - (b) 206
 - (c) 207
 - (d) 208
- 97 Sanjay has a sugar cube in her mouth, in which part of his tongue, will the cube be sweetest?
- (a) Front
 - (b) Middle
 - (c) Rear
 - (d) Sides
- 98- The mosquito repellent (coils, mats and liquids) that we generally use in our homes are:
- (a) Pesticides
 - (b) Fertilizers

- (c) Sedatives
- (d) Insecticides

99- Cows have strong grinding teeth at the back of the mouth, but they cannot eat the flesh of the other animals. This is because:

- (a) They do not need to eat the flesh
- (b) They don't have strong grinding teeth at the front
- (c) They don't have long sharp pointed teeth
- (d) They dislike eating flesh

100- During summer the earth is

- (a) Closer to the sun
- (b) Away from the sun
- (c) Closer to the moon
- (d) Away from the moon