NAT IE Sample Test 01

Section 1 Verbal Reasoning

Analogies

Directions: You are given following questions from the topic, with four choices A through E. Select the choice that will answer the question best.

1. HEIGHT: MOUNTAIN

    A.   Depth   : Trench

    B.   Shade   : Tree

    C.   Weight   : Age

    D.   Speed   : Highway

    E.   Mineral   : Mine

2. OBLIVIOUS : AWARENESS

    A.   Comatose   : Consciousness

    B.   Serene   : Composure

    C.   Erudite   : Knowledge

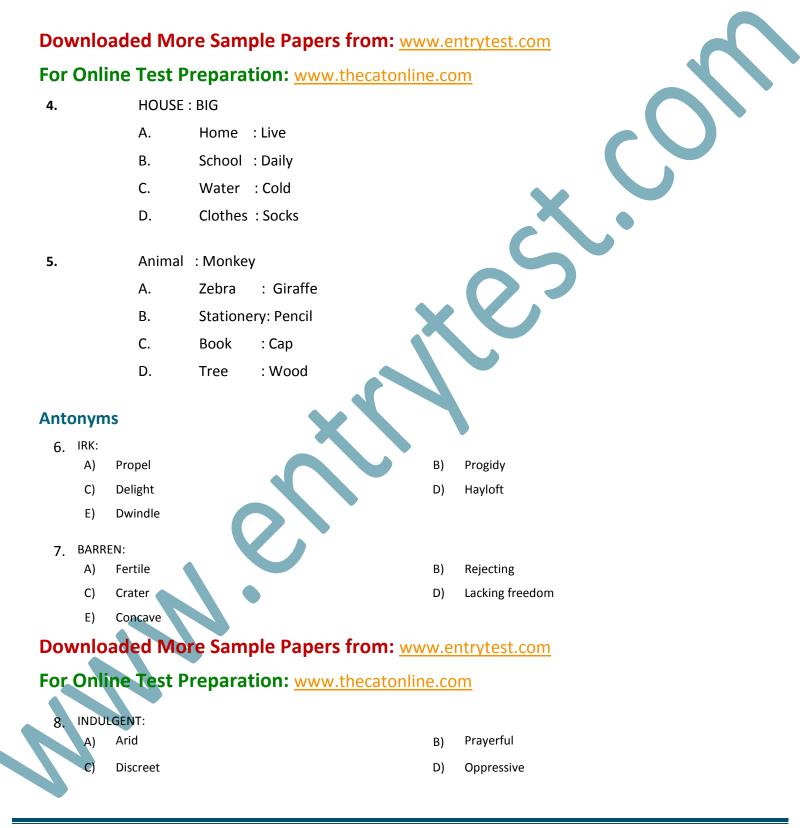   D.   Adroit   : Skill

    E.   Invigorate : Energy

3. ACT : ACTION

    A.   Therapy   : Thermometer

    B.   Oblivion   : Obvious

    C.   Liturgy   : Literature

    D.   Image   : Imagine

    E.   Bowl   : Bowdlerize

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Page 1

4. HOUSE : BIG

    A.   Home   : Live

    B.   School   : Daily

    C.   Water   : Cold

    D.   Clothes : Socks

5. Animal   : Monkey

    A.   Zebra   : Giraffe

    B.   Stationery: Pencil

    C.   Book   : Cap

    D.   Tree   : Wood

Antonyms

6. IRK:
    A)   Propel   B)   Progidy
    C)   Delight   D)   Hayloft
    E)   Dwindle

7. BARREN:
    A)   Fertile   B)   Rejecting
    C)   Crater   D)   Lacking freedom
    E)   Concave

8. INDULGENT:
    A)   Arid   B)   Prayerful
    C)   Discreet   D)   Oppressive

E) Opaque

9. LISTLESS:

A) Organized
B) Consistent
C) Rigid
D) Tasteful
E) Dynamic

10 INDETERMINATE:

A) Neutral
B) Conclusive
C) Astonished
D) Suitable
E) Extravagant

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Sentence Completion

11. The selection committee for the exhibit was amazed to see such fine work done by a mere_____.

A. Connoisseur
B. Artist
C. Amateur
D. Entrepreneur
E. Exhibitionist

12. The teacher suspected cheating as soon as he notice the pupil's_____glances at his classmate's paper.

A. Futile
B. Sporadic
C. Furtive
D. Cold
E. Inconsequential

13. Known for his commitment to numerous worthy causes, the philanthropist deserved_____for his_____.

A. Recognition….folly
B. Blame….hypocrisy
C. Reward….modesty
D. Admonishment….wastefulness
E. Credit….altruism

14. Miss Watson termed Hock's behavior _____ because in her opinion noting could excuse his deliberate disregard of her commands.

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Page 3

A. devious   B. intolerant

C. Irrevocable   D. indefensible

E. Boisterous

15. Either the surfing at Maui is_____, or I went there on an off day.

A. Consistent   B. Thrilling

C. Invigorating   D. Overrated

E. Scenic

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Reading Comprehension

Passage

Another common blues instrument that flourished in the rural South during the 1920s and 1930s was the blues harp or harmonica. It was played mainly in bands called jug bands that commonly performed on street corners, in saloons, and at country stores. Jug bands used a variety of instruments including the banjo, guitar, washboard kazoo, fiddle, jugs, and blues harp. In these bands, the blues harp was used primarily for melodic and rhythmic support. The earliest evidence of the harp used as a solo or lead instrument in the jug bands was in the late 1920s, as hard in the recording of George "Bullet" Williams. Other good harp men, such as Sonny Terry, Little Walter, and Sonny Boy Williamson, followed Williams, revolutionizing the harp's role as a lead instrument.

Questions

16. What does the passage mainly discuss?

A. Twentieth_century music of the South   B. A change in the role of the blues harp

C. Good harp men of the traditional blues harp   D. The variety of instruments in jug bands

17. the blues harp is another name for the

A. Harpsichord   B. Guitar

C. Harmonica   D. Banjo

18. the word "flourished" as used in line 1 could best be replaced by which of the following?

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Page 4

A. Began to burgeon
B. Was profound
C. Appeared
D. Entertained

19. the author uses the phrase "rural South" in line 1 to refer to the Southern

A. Landscape
B. Metropolis
C. Countryside
D. Nation

20. it can be inferred that George "Bullet" Williams

A. Was the best blues harp player
B. Became friend with later harp men

C. Played lead guitar in his band
D. influenced some of the later harp men

Section 2 Quantitative Reasoning

21.
In an election, where there are only two candidates one who gets 43 percent of the votes is rejected by a majority of 420 votes. The total number of votes polled is:

(a) 1,290　　(b) 1,300　　(c) 1,710　　(d) 3,000

22.
A reduction of 20 percent in the price of sugar enables a purchaser to get 4 kg. More for Rs. 80. The original price of 1 kg. of sugar was:

(a) Rs. 4　　(b) Rs. 4.50　　(c) Rs. 5　　(d) Rs. 5.50

23.
A shopkeeper sold a pen for Rs. 13.20 to make a profit of 10 percent. In order to earn a profit of 15 percent, he should have sold it for:

(a) Rs. 13.53　　(b) Rs. 13.78　　(c) Rs. 13.80　　(d) Rs. 13.86

24.

When an electric iron is sold for Rs. 76, the gain is 52 percent. The gain, when it is sold for Rs. 74, is what percent:

(a) 44　　　　(b) 46　　　　(c) 48　　　　(d) 50

25.

By having a discount of 10 percent on the marked price, Rs. 1,100, of a sofa set, dealer gains 10 percent. The cost price of the sofa set is:

(a) Rs. 891　　　　(b) Rs. 900　　　　(c) Rs. 1,000　　　　(d) Rs. 1,089

26.

Babar spends equal amount in buying two types of oranges at the rate of 5 oranges for a rupee and 10 oranges for 3 rupees. The average cost of the oranges will be:

(a) 24 paisa　　　　(b) 25 paisa　　　　(c) 26 paisa　　　　(d) 27 paisa

27.

The percentage of water in 20 litres of adulterated milk is 10. The quantity of water to be added to it, to increase the percentage of water to 25 percent, is:

(a) 4 litres　　　　(b) 5 litres　　　　(c) 7 litres　　　　(d) 8 litres

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28.

In a camp there is provision for 1,600 participants to last 60 days. If the present strength of the camp is 1,200 the provisions will last for – days:

(a) 45　　　　(b) 72　　　　(c) 80　　　　(d) 96

29.

In a business, Zahid contributes Rs. 15,000 and Shahid Rs. 9,000. Shahid gets 10 percent of the profit as his management charges and the rest of it is shared by them in proportion to their investments. If the total profit is Rs. 4,000, the share of Zahid is:

(a) Rs. 1,350　　　　(b) Rs. 1,500　　　　(c) Rs. 2,250　　　　(d) Rs. 2,500

30.

Aslam finds that an increase in the rate of interest for 4 7/8 percent to 5 1/8 percent per annum increases his annual income by Rs. 25. His investment is:

(a) Rs. 10,000　　　　(b) Rs. 12,000　　　　(c) Rs. 15,000　　　　(d) Rs. 20,000

31.

A sum of money becomes double on simple interest in 20 years. It will quadruple at the same rate in:

(a)   40 days   (b)   50 days   (c)   60 days   (d)   80 days

32.

Naseem invests a sum of money for 5 years at 4 percent simple interest. He gets Rs. 3,600 after 5 years on withdrawing the money. So the money invested is:

(a)   Rs. 2,800   (b)   Rs. 3000   (c)   Rs. 3,200   (d)   Rs. 3,400

33.

Anwar and Tahir borrowed Rs. 400 each at 10 percent interest per annum. Anwar borrowed the money at compound interest while Tahir did so at simple interest. In both the cases, the interest was calculated half-yearly. At the end of one year:

(a)   Both paid the same amount as interest   (b)   Anwar paid Rs. 1 more as interest

(c)   Anwar paid Rs. 2 more as interest   (d)   Tahir paid Rs. 2 less as interest

34.

The rate of compound interest on Rs. 1,000 for the first year is 5 percent and for the second year is 6 percent. The interest after 2 years will be:

(a)   Rs. 103   (b)   Rs. 106   (c)   Rs. 110   (d)   Rs. 113

35.

Tanvir, Shabbir and Saghir can do a piece of work respectively in 15 days, 6 days and 10 days. All the three together will finish three times that work in:

(a)   6 days   (b)   8 days   (c)   9 days   (d)   10 days

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36.

Aslam, Ashraf and Akram are employed to do a piece of work for Rs. 529. Aslam and Ashraf together are supposed to do 19.23 of the work. So Akram should be paid:

(a)   Rs. 69   (b)   Rs. 92   (c)   Rs. 161   (d)   Rs. 437

37.

Two trains of lengths 65 and 55 m are traveling in the same direction at 20 and 47 km/h. the faster train will pass the other completely in:

(a)   7.5 sec   (b)   16 sec   (c)   27 sec   (d)   30 sec

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38.

A cistern has two taps which can fill it separately in 9 and 12 min. respectively. It has also a waste pipe which can empty the full cistern in 6 min. If all the three taps are opened together, the empty cistern will be filled in:

(a)   15 min   (b)   18 min   (c)   27 min   (d)   36 min

39.

A certain variety of tea worth Rs. 30.20 per Kg. is mixed with a lower quality of tea priced at RS. 20.50 per Kg. so that the mixture is worth Rs. 25.40 per Kg. The ratio of the two varieties of tea is:

(a)   49 : 48   (b)   49 : 24   (c)   49 : 18   (d)   49 : 6

40.

The money to be invested in 4 percent stock at Rs. 90 to provide an annual income of Rs. 100 is:

(a)   Rs. 1,800   (b)   Rs. 2,000   (c)   Rs. 2,250   (d)   Rs. 2,500

Section 3 Analytical Reasoning

Analytical Reasoning

Direction: Each question or group of questions is based on a passage or set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. For each question select the best answer choice given

Question 41-43

A loop bus has exactly six stops on its route. The bus first stops at stop one and then at stops two, three, four, five and six in that order. After leaving stop six, the bus returns to stop one and continues around the loop again. The stops are at six buildings that are in alphabetical order. Garfield Harrison, Johnson, Kennedy, Lincoln and Madison.

Lincoln is stop three.

Harrison is stop six.

Kennedy is the stop immediately before Madison.

Harrison is the stop immediately before Garfield.

41 If Johnson is stop four, which of the following must be the stop immediately before Lincoln?

A)   Kennedy   B)   Madison

C)   Johnson   D)   Garfield

E)   Harrison

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Page 8

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42 If Garfield is stop two which of the following must be the stop immediately before Harrison?

A) Johnson
B) Garfield
C) Lincoln
D) Kennedy
E) Madison

43 If a passenger gets on the bus at Kennedy, rides past one of the stops, and gets off at Lincoln, which of the following must be true?

A) Kennedy is stop one.
B) Madison is stop three
C) Lincoln is stop four
D) Johnson is stop five.
E) Garfield is stop six.

44 According to a recent survey, marriage is fattening. Cited as evidence is the survey's finding that the average woman gains 23 pounds and the average man gains 18 pounds 13 years of marriage. The answer to which of the following questions would be most relevant I evaluating the reasoning presented in the survey?

A) Why the period of time was studied I the survey 13 year. Rather than 12 or 14?

B) Did some of the men surveyed gain less than 18 pounds during the time they were married?

C) How much weight is gained or lost in 13 years by single people of comparable age to those surveyed?

D) Were the women surveyed as active as the men surveyed, at the time the survey was made?

E) Will the reported gains be maintained over the lifetimes of the persons surveyed?

45 Speakers of a language rely on their general knowledge of the world in order to make sense of statements they hear or read. Computers can easily be "thought" the formal rules of a human language, but supplying them with this general knowledge is another matter. It is extremely difficult to develop computers that can extract the meaning of ordinary sentences.
Which of the following can be validly inferred from the passage above?

A) The interpretation of the meaning of ordinary sentences is dependent on a general knowledge of the world.

B) Computers that can be "taught" the rules of a human language can understand. Statements in that language.

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Page 9

C) It is futile to try to "teach" computers the formal rules of any language.

D) Speakers of a language often must reject the formal rules of that language in order to understand simple sentences.

E) Computers that can understand ordinary sentences have all the basic capabilities necessary to become "speakers" of the language,

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46 In mammals it is the secondary palates that permits breathing while eating is necessary to maintain the high rates of metabolism of mammals.
The author's assertions would be most weakened by the discovery of a mammalian species that had a

A) High rate of metabolism and the ability to breathe while eating

B) Low rate of metabolism and the ability to breathe while eating

C) Low rate of metabolism and no ability to breathe while eating

D) High rate of metabolism and no secondary palate

E) Low rate of metabolism and a secondary palate.

Question 47 - 49

The cast of a benefit program will consist of exactly four actors to be selected from the seven actors P, Q, R, S, T, U and V according the following conditions.

Either p or t must be in the cast. But they cannot both be in the cast.

If T is in the cast, then Q must be in the east.

If U is in the cast, then neither p not P can be in the cast.

47 If U is in the cast. Which of the following must also be in the cast?

A) P

B) Q

C) R

D) S

E) V

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Page 10

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48 If P is in the cast, any of the following groups of the three could make up the rest of the cast EXCEPT

A)   Q, R, and S   B)   Q, R, and V

C)   Q, S and V   D)   R, S and V

E)   S, U, and V

49 If S is in the cast but needs to be replaced, which of the following actors, if not in the cast, is eligible to replace S regardless of the composition of the cast?

A)   P   B)   R

C)   T   D)   U

E)   V

Question 50 - 56

The only percent who attended to meeting were four slip captains and the first mates, three or those captains. The captains were R, S, T, and W; the first mates were L, N, and V. each person in turn delivered a report to the group as follows;

Each first mate present spoke immediately after his or her captain.

S was the first captain to speak and T was the second captain to speak.

50 All of following are possible orders of speakers EXCEPT

A)   S, L, T, V, W, R, N   B)   S, N, T, V, R, W, L

C)   S, T, L, R, N, W, V   D)   S, T, L, W, N, R, V

E)   S, T, V, N, W, R, L

51 If R spoke after L, and L was the third of the first mates to speak, all of the following statements could be true EXCEPT:

A)   W spoke immediately after V.

B)   The order of the first four speakers was S, V, T, N

C)   W's first mate was present.

D)   L was the fourth speaker after S.

E)   The captains spoke in the order S, T, W, R

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Page 11

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52 Which of the following must be true?

A) If the second speaker was a captain, the seventh speaker was a first mate.

B) If the second speaker was a first mate, the seventh speaker was a captain.

C) If the third speaker was a first mate. The seventh speaker was a captain.

D) If the third speaker was a captain the seventh speaker was a first mate.

E) If the seventh speaker was a first mate, the first and third speakers were captains.

53 If L, spoke immediately after R, and immediately before W, and W was not the last speaker, R spoke

A) Second

B) Third

C) Fourth

D) Fifth

E) Sixth

54 If V is S's first mate, N could be the person who spoke immediately

A) Before T

B) Before L

C) Before V

D) After T

E) After V

55 If L was the third of the first mates to speak, and R was the captain whose first mate was not present, which of the following must be true?

A) L spoke sometime before R.

B) N spoke sometime before W.

C) R spoke sometime before W.

D) W spoke sometimes before R.

E) W spoke sometime before T.

56 Which of the following additional conditions would make S.N, T, V, R, W, L the only possible order of speakers?

A) N is S, s first mate; V is T's first mate; L is W's first mate

B) N is S's first mate: V is T's first mate; L was the second to speak after R.

C) The order of the first four speakers was S, N, T, V

D) The order of the first four speakers was S. N, T, V

E) The order in which the captains spoke was
S,T, R, W.

Logical Reasoning

57 It has been hypothesized that much of the matter in the universe is "dark" i.e., unseen. Studies have shown that galaxies in many galaxy clusters are moving faster with respect to one another than they would if visible stars constituted all their mass. The studies suggest that the galaxies are moving under the gravitational influence of unseen mass in considerable quantity.
Which of the following is an assumption underlying the passage above?

A) Measurements of the speed of moving galaxies extremely unreliable.

B) The working of gravitational forces is not particularly well understood.

C) The aggregate mass of visible stars in the galaxies mentioned above can be estimated with some confidence.

D) The general composition of unseen matter in the universe has been determined.

E) With out exception, the galaxies mentioned above move toward one another.`

Health club membership has increased dramatically over the last five years. In order to take advantage of this increase, Fitness Express plans to open more of the same types of classes available during the week, while continuing its already very extensive advertising in newspapers and on the radio.

58.	Which of the following, if true, provides most support for the view that Fitness Express *cannot* increase membership to its gyms by adopting the plan outlined above?
A.	Although it fills all of the classes it opens, Fitness Express's share of all health club memberships has declined over the last five years.
B.	Fitness Express' number of classes offered to their clients has declined slightly over the last year.
C.	Advertising has made the name of Fitness Express widely known, but few customers know that Fitness Express health clubs also off acupuncture and shiatsu treatments.
D.	Fitness Express's health clubs is one of three clubs that have together accounted for 88% of health club memberships
E.	Despite a slight decline in membership price, sales of Fitness Express memberships have fallen in the last five years.

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Page 13

59. In an in vitro study, 160 white cats were injected with Salt X. 160 other white cats were injected with placebo. In two weeks, 39% of the white cats, who were injected with Salt X showed symptoms of Kay fever? Hence, it can be concluded that Kay fever is caused by some elements similar to the elements in Salt X.

Which of the following statements would most seriously weaken the above discussion?

A.   People suffering from Kay fever are the victims of the golden viper of Sindh.

B.   One among the 160 white cats had already showed symptoms of Kay fever prior to the experiment.

C.   The natural habitats of white cats does not contain any of the elements found in Salt X.

D.   The 160 white cats used in the experiment were kept isolated from each other.

E.   The scientists administered the injections being ignorant of the contents of the salt used.

60. Between 1990 and 1998, boarding in Muslim Degree College averaged 79 percent of capacity, while admission rates remained constant, at an average of 9 admissions per 100 rooms per year. Between 1998 and 2002, however, boarding rates increased to an average of 85 percent of capacity, while admission rates declined to 8 per 100 rooms per year.

Which of the following conclusions can be most properly drawn from the info given above?

A.   The average stay for Muslim degree College residents rose between 1998 and 2002.

B.   The proportion of young student staying in the college hostel was greater in 2002 than in 1990.

C.   College admission rates tend to decline whenever boarding rates rise.

D.   College built prior to 1998 generally had fewer rooms than did college built between 1998 and 2002.

E.   The more rooms a hall has, the higher its boarding rate is likely to be.

Section 4 Physics

61.   Einstein explained the photo-electric effect making the following assumption as a basis that,

(a)	The mass of the electrons increases	(b)	Light consists the photons or quanta
(c)	The energy of light increases with speed	(d)	The photo-electrons are identical with atomic electrons

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Page 14

CAT

62. An elevator initially accerlerates upward from rest and ascends with uniform speed. Time period of a simple pendulum in the elevator will,

(a) Increase and then decrease
(b) Decrease and then increase
(c) Increase
(d) Decrease

63. A simple arrangement by means of which e.m.f,s. are compared is known

(a) Voltmeter
(b) *Potentiometer*
(c) Ammeter
(d) None of the above

64. The physics underlying the operation of a refrigerator most closely resembles the physics underlying,

(a) The freezing of water
(b) The melting of ice
(c) The evaporation of water
(d) A heat engine

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65. Let a certain body of mass 'm' placed on a horizontal surface move down the inclined plane then downward component of weight is

(a) .mgCosθ
(b) .mgSinθ
(c) .mg Tanθ
(d) None

66. The plane faces of two identical plano convex lens, each having focal length 40 cm are pressed against each other to form a usual convex lens. The distance from this lens at which an object must be placed to obtain a real, inverted image with magnification one is.

(a) 40 cm
(b) 80 cm
(c) 20 cm
(d) 60 cm

67. The law which gives definition of force is

(a) Newton's law of gravitation
(b) Third law of motion
(c) Second law of motion
(d) First law of motion

68. Hygrometer is an instrument used for measuring

(a) The compression of water vapour with temperature
(b) The amount of water vapour in the atmosphere
(c) Specific gravity of air
(d) The density of air

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Page 15

69. An inertial frame of reference is one whose:

    (a) Acceleration is zero

    (b) Velocity is changing with time

    (c) Acceleration is uniform

    (d) Inertia is not zero

70. A moving car whose engine is switched off. comes to rest after some time due to:

    (a) Inertia   (b) Its mass   (c) Friction   (d) Earth's gravitation

Section 5 Chemistry

71. The unit of rate constant K is the same as that of the rate of reaction in

    A) First order reaction

    B) Second order reaction

    C) Third order reaction

    D) Zero order reaction

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72. Half life period of N_2O_5 is 24 minutes and it remains same where we increase or decrease its initial concentration is

    A) Zero order

    B) First order

    C) Second order

    D) Third order

73. Which one of the following reaction rate is effected by the light

    A) $N_2 + 3H_2 \rightarrow 2NH_3$

    B) $N_2 + O_2 \rightarrow 2NO$

    C) $2NO + 2H \rightarrow N_2 + 2H_2O$

    D) $CH_4 + Cl_2 \rightarrow CH_3 ---- Cl + HCl$

74. Usually increase in temperature increase the rate of a reaction but it decreases the power of a catalyst due to

    A) Catalyst is decomposed

    B) Side reaction

    C) Reversible reaction starts

    D) Change in physical state of catalyst

75. The rate of reaction

    A) Increases as the reaction proceeds

    B) Decrease as the reaction proceeds

    C) Remains the same as the reaction proceeds

    D) May decrease increase as the reaction proceeds

76. The minimum amount of energy required to form an activated complex is called

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Page 16

A) Reaction energy

B) Activation energy

C) Deactivation energy

D) Completion energy

77. The number of atoms or molecules whose concentration determine the rate of reaction is called

A) Rate of reaction

B) Order of reaction

C) Molecularly

D) Rate constant

78. The number of elements in the first, second and third period are

A) 2, 8, 18

B) 8, 2, 18

C) 2, 18, 8

D) 2, 8, 8

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79. The first ionization energy of elements varies

A) Increases in period and group

B) Increase in period and decrease down the group

C) Deceases in period and group

D) Decreases in a period and increases down the group

80. The force of attraction between ions and water molecules are known as

A) Dipole-dipole forces

B) London forces

C) Dipole-induced dipole forces

D) Ion-dipole forces

Section 6 Mathematics

81. An interesting application of laser is the production of three dimensional images called

(a) Polygons

(b) Holograms

(c) Ovals

(d) None of the above

82. The laser device used to fragment gallstones and kidney stones is called

(a) Laser beam

(b) Laser scanner

(c) Laser lithotropter

(d) Ruby laser

83. Product of x-rays is a reverse phenomenon of

(a) Photoelectric Effect

(b) Compton Effect

(c) Pair Production

(d) Annihilation of matter

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Page 17

84. The nucleus of hydrogen with symbol $_1H^3$ is called

(a) Proton   (b) Deuteeron   (c) Triton   (d) All of the above

85. Elements with atomic number Z > 82 are

(a) Stable   (b) Unstable   (c) Small   (d) None of the above

86. Which of the following particles has very low penetration power?

(a) α-particle   (b) β-particle   (c) γ-particle   (d) All of the above

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87. Which of the following particles move with velocity of light?

(a) α-particle   (b) β-particle   (c) γ-particle   (d) All of the above

88. A carbon nucleus emits a particle x and changes into nitrogen according to the equation

$_6C^{14} + _7N^{14} \rightarrow x$ What is x?

(a) An electron   (b) A proton   (c) An α-particle   (d) A neutron

89. During Pair-Production which particles are produced?

(a) Proton & Electron   (b) Electron & Neutron   (c) Electron & Positron   (d) Proton & Neutron

90. The Solid-State Detector is basically

(a) A forward biased PN-junction   (b) A reversed biased PN-junction

(c) A forward biased transistor   (d) A Photocell

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Page 18

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