

AJMAL NATIONAL TALENT SEARCH (ANTS) EXAMINATION - 2011

Class : VIII

Time / a]t : 2 hours/ H70

Full Marks/]Bx=6 / a]0X0yf (25+25+25+25)=100

General Knowledge / ad]S pUX / ad]S pUX

1. Mark Zuckerberg is famous as -

]E0L E0]yGi-E0»]ydy-Fi0o?
]E0L E0]yGi-E0a]yLXi]Fi0o?

- | | |
|--|--|
| a) CEO of Facebook Inc.
z0]E0]Ei E0]ydy-Fi0c
z0]E0]Ei E0]ydy-Fi0c | b) Man Booker Prize winner of 2010
2010 0X» a]X]E0 Y0-L]yLT0
2010 aX]y]X]E0]yY0-L]yLT0 |
| c) The Best athlete in Guangzhou Asian Games
m?Xa]A-00 d]K» æ 0aF_0/4
m?Xa]A-]d]K]aa]ya0 0aF_ä_00 | d) The President of France
Z0a» »0]V_00
Z0a]y]y]V_00 |

2. Which of the following classical singers hails from Assam ?

T0 » æ0X `00 a0]T0» "LX]E T0 %a]» ?
X0]yæ0X `00 a]T0» "Y]E T0 %ca]y?

- | | | | |
|--|--|---|---|
| a) Ustad Rashid Khan
C00] » `W F0X
=00]]y `W Fg | b) Parveen Sultana
Y0?X J0 T0X0
Y0]X0 a0T0X0 | c) Ajoy Chakroborty
%L]]y0]00
%L]]y0]00 | d) Pulak Banerjee
Y0E0]y0Lp
Y0E0]y0Lp |
|--|--|---|---|

3. Somdev Devvarman clinched the tennis men's doubles gold medal in the Asian Games, 2010 along with :

2010 **0X» A-00 d]K» Y00» æX]00]y_KT0ac]a]y]a/]y]K E0»_GT00SiYVE0»FT0Y %LH E0»K_ ?**
 2010 **aX]y]A-]d]K]aa Y00]yæ0Xa 00]y_ä_äc]a]y]a/]y]K E0c]yaät 00iYVE0%LH E0]y?**

- | | | | |
|--|--|---|--|
| a) Rohan Bapanna
ä0c0X ä]y0c-c
ä]y0c ä]y0c-c | b) Uki Bhambri
+=-E0\0]]0
+=-E0\0]]0 | c) Leander Paes
x_ä%» ä/L
x_ä%]ya/L | d) Sanam Singh
0X] »æ
aX] »æ |
|--|--|---|--|

4. ISRO failed to launch successfully which of the following on 25 Dec, 2010 :

2010 **0X» 25 »00]T0 ISRO + -E0=däl V]X E0»]E_]yUicF***
 2010 **aX]y]25 »00]T0]y ISRO -E0=däl V]X]yUicF K_ ?**

- | | | | |
|--|---|---|---|
| a) RISAT-2
»K002
]y002 | b) GSLV-FO6
»L. AK: A_. »0FO6
»L. Aa. A_. »0FO6 | c) Chandrayaan -1
00]V]X - 1
J0]V]X - 1 | d) Oceansat - 2 (IRS-P4)
Cäl0]aa00- 2 (IRS-P4)
CäaXäl00- 2 (IRS-P4) |
|--|---|---|---|

5. India's oldest football club is -

\0]T0 Y00KT0 Z0]y_ z0]y0c!_ -
\0]T0]yY00KT0 Z0]y_ z0]y0c+ -

- | | | | |
|--|---|--------------------------------------|----------------------------------|
| a) Mohammedan Sporting club
]ca]00X & »00 z0]y | b) Salgaocar
0_ G0CE0»/ ac_ G0CE0]y | c) Mohun Bagan
a]0cX]yG0X | d) East Bengal
+r0ä]y_ |
|--|---|--------------------------------------|----------------------------------|

18. Which of the following towns is the Capital of Dadra and Nagar Haveli ?

Tõ » ÆÖX XG» Vd/»ç%ÖXG» çãö ð »çL WXÝ?
XVdyÆÖX»ÖVd/çA[çXG[çãö _VlyL WXÝ?

- a) Satara b) Silvassa c) Shimoga d) Sangli
- ÆTÖç ð_ \ÖKç ×_ ã]çç KçG_ Ý
- aq_ç a_ \Öaç ×_ ã]çç aç_ Ý

19. The news agency 'Reuter' is in -

"»^Ö»" X=L Aäl_»a ÆÖX ã/ Tõ%¾Öö?
"ç_Öç" X=L Aäl_»a ÆÖX ã/ã %çÖö?

- a) USA b) Britain c) China d) Italy
- %ç]»Eç ^Öpçñ [çÖ-X \$K +Ö_ Ý
- %ç]çEç ^Öçñ [çÖX \$K +Ö_ Ý

20. Bhavani can eat 8 mangoes in 2 days. Dharani can eat 6 mangoes in 3 days. In how many days can both eat 66 mangoes ?

\çY 2 »XTö8 Öç%ç] FçYç» * W»X 3 »XTö6 Öç%ç] FçYç» * Vçã 66 Öç%ç] FçY_ ÆçX WX_ççY?
\çY 2 »X 8 Öç%ç] ÆätöççY WY 3 »X 6 Öç%ç] ÆätöççY Vçã »ã 66 Öç%ç] ÆätöççY WX_ççY?

- a) 12 b) 10 c) 11 d) 13

21. Ptyalin is an enzyme produced in the

..... ã Öçç X Xç] =dããEö=dY~ Eö*
..... Öçç X Xç] Eö=dããEö=dY~ EçY

- a) Salivary glands b) Pituitary glands c) Thyroid glands d) Pancreas
- _ç_Öçñ »ÖçÖçYçñ Uç»Öçñ %çã_
- _ç_Öçñ »ÖççYçñ Uç[ç_Öçñ %çã_

22. The line demarcating the boundary between India and China is the -

\çTõ%ÖçK» a]çYBEöEöçã»FçÖç_ ç! -
\çYöA[ç_»[çY]çYBEöEöçã»a]çYçYç] -

- a) Durand Line b) Radcliffe Line c) Mc Mohan Line d) Straford Line
- Öçç_ç_X ã_Öçç_ç_X ã]Eöã]ç_X_ç_X rñZ_ç_ç_X
- Öçç_ç_X ã_Öçç_ç_X ã]Eöã]ç_X_ç_X rñZ_ç_ç_X

23. The white Colour of our National flag signifies -

%ç]ç»»çñ YTöEö» [çç»ãöEöaçñ -
Lçñ YTöEöççç[çñY^i ç_ -

- a) Truth and Courage b) Truth and Peace c) Courage and sacrifice d) Faith and chivalry
- aTö %ç_öaça `çñ%ç_öaTö aççã %ç_óTöç çY_ã %ç_óçYçY
- aTö A[ç aççã `çñA[ç aTö aççã A[ç Töç çY_ã A[ç çYçY

(5)

24. What is the full Form of AVSM ?

AVSM » YSi»QY »Eo?

AVSM A[yYSi[yY »Eo?

a) Ati Visist Seva Medal

%Tö{y róa³ç a] äö

b) Ati Vishesh Seva Medal

%Tö{y b ä³ç a] äö

c) Ajivan Vishesh Seva Medal

%çL Vx {y b ä³ç a] äö

d) None of the above

CY»» Aöç XcF/ AEöç X

25. Who was the first actress in Indian Cinema ?

\öTä ö »YU] XçEç äöX %çK: ?

\öTä ö »y[yU] XçEç äöKä X ?

a) Gita Dutta

GÏç Vwo

b) Devika Rani

ä[yEç»SV ä[yEç[ySY

c) Madhubala

]Vöç ç

d) Madhumala

]Vöç ç

General English

Fill up the blanks with the most appropriate word. :

26 He gave ----- at the sensational trial.

a) Witness

b) evidence

c) proof

d) advice

27 Just ----- , he could complete the work to my satisfaction.

a) in a hour's time.

b) in a hour

c) in an hour's time

d) in the time of an hour.

28 If I were a millionaire, I ----- the poor.

a) would have helped

b) could have helped

c) would help

d) will help

29 Mother always ----- with the maid servant.

a) finds fault

b) finds faults

c) find faults

d) is finding fault

30 When I was sixteen, I ----- the Engineering Entrance examination.

a) sat on

b) sat in

c) sat at

d) sat for

31. No sooner ----- the power went off.

a) he had returned home than

b) did he return home than

c) had he returned home when

d) when he returned then

(6)

32. His conduct is bad and his honesty is not Suspicion.
a) beyond b) under c) above d) out
33. In the fierce attack, the enemies were completely wiped
a) off b) away c) over d) out
34. Dhoni ----- another feather ----- his cap by his wonderful performance in the World Cup.
a) took, in b) created, for c) captured , from d) added , to
35. Since we ----- read every book , we ----- only the famous ones.
a) must , ignore b) have , sold c) should , buy d) cannot , select
36. The ----- of glory lead but to the ----- .
a) paths , grave b) ways , happiness c) acts , prosperity d) achievements , suffering.

Pick out the part that can complete the sentence.

37. He passed the examination in the first class because he
a) worked hardly for it b) was working hard for it. c) had worked hard for it. d) was hard working for it.
38. Whichever way you approach the problem
a) it will not solve. b) it can not solve c) no one will solve it d) it will not be solved

The sentence given here in Active Voice will be changed to which of the following in Passive Voice ?

39. 'Do you imitate others ?
a) Are others imitated by you ? b) Do others are imitated by you ?
c) Are you imitated by others ? d) Are others being imitated by you ?

Find out the correct Indirect Speech form of the following sentence.

- 40 She said to him, " Why don't you go today ?"
a) She asked him why did not he go that day. b) She asked him why he did not go that day.
c) She enquired that why had not he gone that day . d) She enquired of him that why had he not gone that day.

Choose the word **nearest in meaning** to the word underlined in italics

41. Some of the discoveries of modern science are simply marvellous.
a) praiseworthy b) commendable c) amazing d) admirable
42. The novel was so interesting that I was oblivious of my surroundings.
a) indifferent b) unmindful c) watchful d) careful

(7)

Choose the word that is **opposite in meaning** to the word underlined in italics

43. There was a marked *deterioration* in his condition.

- a) improvement b) revision c) worsening d) abatement

44. He was in a *dejected* mood.

- a) irritable b) romantic c) melancholic d) jubilant

Pick out the correct meaning of the idiom in bold letters.

45. He **egged me on** to join the protest march.

- a) Told me to throw rotten eggs at the procession. b) Told me not to join.
c) Told me about the dangers of joining the march d) Instigated me to join the march.

46. Tendulkar's **midas touch** helped India to win the World Cup.

- a) anger b) inspiring words c) a touch which turns anything in to gold. d) good fielding

In each of the following questions five words are given, out of which four are same in one way and the fifth one is different from others. Select the odd one.

47. a) silk b) fur c) milk d) leather e) Rubber

48. a) ink b) pen c) pencil d) brush e) chalk stick

49. Look at this series: 14, 28, 20, 40, 32, 64, . . .

What number should come next?

- a) 52 b) 56 c) 96 d) 128

50. Which word does NOT belong with the others?

- a) mayor b) lawyer c) governor d) senator

General Mathematics / अध्यात्म गणित / अध्यात्म गणित

51. Which of the following statements is false ?

$\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$?
 $\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$?

- a) Every fraction is a rational number
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
- b) Every rational number is a fraction
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
- c) Every integer is a rational number
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
- d) All the above
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$
 $\frac{a}{b} \in \mathbb{Q} \Rightarrow \frac{a}{b} = \frac{a}{b}$

(8)

52. When 75% of a number is added to 75 the result is the number again. The number is

75% ক একটি সংখ্যার সাথে যোগ করলে তার সমান হয়। সংখ্যাটি কত?

- a) 150 b) 300 c) 100 d) 450

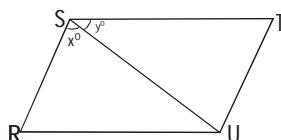
53. How much pure alcohol should be added to 400 ml of strength 15% to make its strength 32% ?

400 ml 15% শক্তির বিশুদ্ধ অ্যালকোহল যোগ করে 32% শক্তির করাতে কত ml বিশুদ্ধ অ্যালকোহল যোগ করতে হবে?

- a) 50 ml b) 75 ml c) 100 ml d) 150 ml

54. RSTU is a parallelogram as shown in the figure below. Then the shown angles x and y are related as

RSTU একটি সমান্তরাল চতুর্ভুজ। কোণ দুটির মাজের সম্বন্ধ



- a) $x = y$ b) $x < y$ c) $x > y$ d) can not be determined from given data

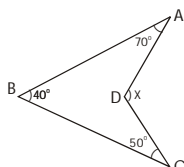
55. If the lengths of two diagonals of a rhombus are 12 cm and 16 cm, then the length of each side of the rhombus is

একটি রম্বসের দুইটি কর্ণের দৈর্ঘ্য যথাক্রমে 12 cm এবং 16 cm হলে রম্বসের প্রতিটি বাহুর দৈর্ঘ্য কত?

- a) 10 cm b) 14 cm c) cannot be determined d) none of these

56. In the given diagram, find the value of x.

নিচের চিত্রে x-এর মান নির্ণয় করুন।



- a) 60° b) 80° c) 160° d) 180°

57. The value of $\sqrt{-1} \times \sqrt{-1}$ is

$\sqrt{-1} \times \sqrt{-1}$ এর মান কত?

- a) -1 b) +1 c) ± 1 d) none of these

58. $\sqrt[3]{-2,744} \div \sqrt[3]{0.008} = \dots\dots\dots$

- a) 70
- b) -70
- c) 14
- d) -14

59. The difference in SI and CI on a certain sum of money in 2 years at 15% p.a. is Rs. 144. Sum is

কোনো নির্দিষ্ট $\dots\dots\dots$ 15% $\dots\dots\dots$ 2 $\dots\dots\dots$ $\dots\dots\dots$ $\dots\dots\dots$ 144 $\dots\dots\dots$

- a) Rs. 6,000
- b) Rs. 6,200
- c) Rs. 6,300
- d) Rs. 6,400

60. If SP of an article is $\frac{4}{3}$ of its CP then the profit in the transaction is

$\dots\dots\dots$ $\frac{4}{3}$ % $\dots\dots\dots$

$\dots\dots\dots$ % $\dots\dots\dots$

- a) $\frac{1}{3}$ %
- b) $20\frac{1}{2}$ %
- c) $33\frac{1}{3}$ %
- d) $25\frac{1}{2}$ %

61. The product of x^2y and $\frac{x}{y}$ is equal to the quotient obtained when x^2 is divided by

$x^2 \dots\dots\dots \frac{x}{y} \dots\dots\dots$

$x^2 \dots\dots\dots \frac{x}{y} \dots\dots\dots$

- a) 0
- b) 1
- c) x
- d) $\frac{1}{x}$

62. If $x^2 + \frac{1}{x^2} = 79$ then $x + \frac{1}{x} = \dots\dots\dots$

- a) $\sqrt{75}$
- b) 9
- c) $\sqrt{79}$
- d) None of these

$\dots\dots\dots$

63. The shape of the following figure is

$\dots\dots\dots$



- a) Circle
- b) Cone
- c) Cylinder
- d) Cuboid

64. The area of an isosceles triangle having base x cm and one side y cm is

Area of isosceles triangle with base x and side y is $\frac{x}{2} \sqrt{y^2 - \frac{x^2}{4}}$

- a) $\frac{x}{2} \sqrt{y^2 + \frac{x^2}{4}}$ cm² / [Giakf x]f/ [Giã. x].
- b) $\frac{x}{2} \sqrt{\frac{4y^2 - x^2}{4}}$ cm² / [Giakf x]f/ [Giã. x].
- c) $\frac{x^2 - y^2}{4}$ cm² / [Giakf x]f/ [Giã. x].
- d) None of these /AQC XcF/ AEöC Xf

65. Simplified form of $\left[3\sqrt{x^4y} \cdot \frac{1}{4\sqrt{x^2y^8}}\right]^{-6}$ is

$\left[3\sqrt{x^4y} \cdot \frac{1}{4\sqrt{x^2y^8}}\right]^{-6}$ » a» dEö]ç (Alýa[ý dEö]ç)

- a) x^5y^{10}
- b) $\frac{y^{10}}{x^5}$
- c) $\frac{y^2}{x}$
- d) $\frac{x^5}{y^5}$

66. A fort had provision of food for 150 men for 45 days. After 10 days, 25 men left the fort, The number of days for which the remaining food will last, is

150 men for 45 days. After 10 days, 25 men left the fort. Remaining food will last for 37 1/4 days.

- a) $29\frac{1}{5}$
- b) $37\frac{1}{4}$
- c) 42
- d) 54

67. Factors of $(4a-3b)^3 - (3a-b)^3 - (a-2b)^3$ are

$(4a-3b)^3 - (3a-b)^3 - (a-2b)^3$ » =dYç/Eö.....
 $(4a-3b)^3 - (3a-b)^3 - (a-2b)^3$ Alý=dYç/Eö.....

- a) $3(4a-3b)(b-3a)(2b-a)$
- b) $3(a-b)(b-c)(c-a)$
- c) $(a-b)^2 (c-a)$
- d) None of these (AQC XcF/ AEöC Xf)

68. Which of the following number is divisible by 11 ?

Which of the following numbers is divisible by 11?

- a) 3,116,365
- b) 9,01,351
- c) 8,790,322
- d) None of these (AQC XcF/ AEöC Xf)

69. If $\sqrt{0.04x \cdot 0.04xa} = 0.4x \cdot 0.04x \sqrt{b}$ then $\frac{a}{b} = \dots\dots\dots$

- a) 0.016
- b) 1.60
- c) 0.16
- d) None of these /AQC XcF/ AEöC Xf

70. If the ratio of areas of two circles is 16:25 then the ratio of their circumference is

Ratio of areas of two circles is 16:25. Ratio of their circumferences is 4:5.

- a) 25:16
- b) 5:4
- c) 4:5
- d) 3:5

71. The value of the product $(3 + \frac{5}{x})(9 - \frac{15}{x} + \frac{25}{x^2})$ at $x = 1$ is

$(3 + \frac{5}{x})(9 - \frac{15}{x} + \frac{25}{x^2})$ »]

$(3 + \frac{5}{x})(9 - \frac{15}{x} + \frac{25}{x^2})$ Alý] »

- a) 150
- b) 148
- c) 152
- d) None of these

72. If $\frac{-3}{x} = \frac{x}{27}$, then the value of 'x' is

$\frac{-3}{x} = \frac{x}{27}$ cè »]

$\frac{-3}{x} = \frac{x}{27}$ cè, Tólyx Alý] »

- a) a rational number
- b) not a rational number
- c) an integer
- d) a natural number

73. If $(x^2 + 3x + 5)(x^2 - 3x + 5) = m^2 - n^2$, then $m =$

- a) $x^2 - 3x$
- b) $3x$
- c) $x^2 + 5$
- d) None of these

74. Which of the following is not a linear equation ?

$4x + 1 = x$

$\frac{5}{3}y + y = 4$

$-pq + 5 = -3$

- d) None of these

75. Which of the following statements is true ?

Cubes of all even natural numbers are even

Cubes of all odd natural numbers are odd

- a) Cubes of all even natural numbers are even
- b) Cubes of all odd natural numbers are odd

- c) Cubes of negative integers are negative.
- d) All the above

General Science / অধঃসংশ্লিষ্ট / অধঃসংশ্লিষ্ট

76. Which of the following always produces a virtual image ?

কোনো একটি বস্তুতে আলোকরশ্মি প্রতিফলিত হলে সর্বদা কী ধরনের ছবি তৈরি হয়?

- a) Plane mirror b) Concave mirror c) Convex lens d) Convex mirror
- a) $T\ddot{o}$ $V\check{c}aY\check{S}$ b) $\%3/4\ddot{o}$ $V\check{c}aY\check{S}$ c) $=w\ddot{o}$ \grave{a} \grave{a} d) $=w\ddot{o}$ $V\check{c}aY\check{S}$
- a) $T\ddot{o}$ $VY\check{S}$ b) $\%[T\ddot{o}$ $VY\check{S}$ c) $=w\ddot{o}$ \grave{a} \grave{a} d) $=w\ddot{o}$ $VY\check{S}$

77. The refractive index is minimum for colour.

.....-বর্ণের আলোর প্রতিসরাঙ্ক সর্বনিম্ন।

- a) red b) violet c) green d) yellow
- a) $\%l\check{c}$ b) $\check{a}y\check{S}r\check{c}$ c) $\check{a}n=Lr\check{c}$ d) $c\check{e}$ $v\check{r}\check{c}$
- a) $_c$ b) $\check{a}ymXy$ c) $a[r\check{c}$ d) $c\check{e}$ v

78. No current flows between two charged bodies if they have same

দুটি আধানযুক্ত বস্তু একে অপরের দিকে কোনো বৈদ্যুতিক প্রবাহিত হবে না যদি তাদের একই থাকে।

- a) Capacity b) Potential c) Charge d) None
- a) $I\check{q}T\check{c}$ b) $\check{f}y\check{e}4$ c) $\%d\check{m}X$ d) $A\check{O}\check{c}$ $X\check{c}f$
- a) $I\check{q}T\check{c}y$ b) $\check{f}y\check{e}[y$ c) $\%d\check{m}X[y$ d) $AE\check{O}\check{c}$ Xr

79. When main switch of the house circuit is put off it disconnects the

ঘরের বর্তনীতে মেইন সুইচটি বন্ধ করিলে কে বিচ্ছিন্ন করে।

- a) Live wire b) Neutral Wire. c) Earth Wire d) Live and Neutral Wires.
- a) $a\check{y}\check{O}$ $T\check{c}$ b) $=V\check{c}aK$ $T\check{c}$ c) $]c\check{O}\check{b}$ $_GT\check{o}ae$ $G\check{A}T\check{c}$ d) $a\check{y}\check{O}$ $\%f\check{O}$ $=V\check{c}aK$ $T\check{c}$
- a) $a\check{y}\check{O}$ $T\check{c}y$ b) $=V\check{c}aK$ $T\check{c}y$ c) $]c\check{O}\check{b}y\check{a}c\check{U}$ ae $G\check{A}T\check{c}y$ d) $a\check{y}\check{O}$ $A[r\check{e}$ $=V\check{c}aK$ $T\check{c}y$

80. The atmospheric pressure is due to the

বায়ুমণ্ডলের চাপ-এর কারণে।

- a) Sky above our head b) Air mass surrounding earth
- a) $\%c\check{e}$ \check{e} $]y\check{a}y$ b) $Y\check{B}3/4$ $\check{a}y\check{c}\check{a}$ $UE\check{c}$ $]y\check{S}$ \check{O}
- a) $\%c\check{e}\check{a}$ $]yLXi$ b) $Y\check{B}3/4y\check{O}y\check{c}\check{a}$ $UE\check{c}$ $]y\check{S}$ $\check{O}y\check{a}y$
- c) Gravitational force of sun and other planets. d) Mass of the earths
- a) $a\check{E}i$ $\%f\check{O}$ $\%Xi$ $G\check{B}$ $]d\check{m}E\check{O}iSE\check{O}y$ \check{e} $]y\check{a}y$ d) $Y\check{B}3/4$ \check{O} \check{e} $]y\check{a}y$
- a) $a\check{E}i$ $A[r\check{e}$ $\%Xi$ $G\check{B}$ $]d\check{m}E\check{O}iSE\check{O}y\check{a}$ $]y$ d) $Y\check{B}3/4y\check{a}y$ $\check{O}y\check{a}yLXi$

81. While walking on ice, one should take small steps to avoid slipping. This is because smaller steps ensure

Y Z d o a f d l E a b a t o v k * X Y » [y e f d a y » s o o e o v l y c a * E o s a f d s o o c a c f *
[y z o v k a _ X c y a b ^ c i d y l x i y v a l u a [y c a d y k v a t o c f * E d s y v a l u a d y k c a a c f *

- a) Larger friction
H b s a y k :-
H b s a y Y
- b) Smaller friction
H b s E d
H b s E d
- c) Larger normal force
= _ p l y a y k :-
= _ p l y a y Y
- d) Smaller normal force
= _ p l y E d
= _ p l y E d

82. The chemical reaction due to passage of electric current depends on

Y d n Y d c » Z o T o a c e c » c a d X E o y y o c » C Y » T o X \ o E o *
Y d n Y d c a c y z o _ c c i c i y a d X E o y y o c = Y [y X \ o E o y *

- a) Electrodes
+ a _ E o o o
+ a _ E o o a l y
- b) Magnitude of current
Y d c »] d
Y d c a c y] c a l y
- c) density of liquid
T o _ » H X + o
T o y _ l y H X a d y
- d) All of the above.
C Y » » % o o a e o o
a [E o o y

83. Electric charge is measured in

q v c t e o % d i x » A E e o *
q v c t e o % d i x [y] c a l y A E e o *

- a) Coulombs
E o _ p
- b) Amperes
A v i t o / A v i t d y
- c) Volts
V o o
- d) Watts
3 / 4 o c i t o

84. The E.N.T. doctor uses a

E . N . T . o o » [y ^ c e E o *
A E d X E . N . T . o a l l y [y l y d y E o y *

- a) Convex mirror
= w o V c a y S
= w o V Y K
- b) Convex lens.
= w o a _ 3 a
= w o a _ 3 a
- c) Plane mirror
a] T o V c a y S
a] T o V Y K
- d) Concave mirror
% 3 / 4 o V c a y S
% [y o V Y K

85. Which of the following statements is not true ?

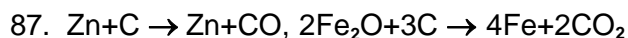
T o _ » a e x a d e = n p e ^ w x c f *
X b d y a e x = n p o e ^ w i t ?

- a) Polymer occurs in nature
[s a ^ c y a ^ i g Y b b t o a v c e ^ d
[s a ^ c y a ^ i g Y b b t o t o y c i c e ^ d
- b) Cellulose is made up of glucose units
a b _ o _ d _ G a d a _ G p t o
a a _ o _ d _ G e d l y d y c p a t o
- c) Nylon is used to make parachute
a y » d b e t o c » E o [y e X e _ X [y ^ c e E o c c f
a [y a o b e t o d y E o l y t o X e _ X [y l y d y E o y c f
- d) Cotton thread is stronger than nylon thread
E d c y a j c X e _ X a l t o E o o X
E o v a l y a c e X e _ a [y a t d y e a t o] L [y o

86. Which of the following is not a heavy metal ?

T o _ » a e x a d e G v s v e t o x c f *
X b d y a e x o m [o v e t o x i ?

- a) Cu
- b) Hg
- c) Pb
- d) K



In the above reactions

৮৭. $Zn+C \rightarrow Zn+CO$,
 $2Fe_2O_3+3C \rightarrow 4Fe+2CO_2$

a) Carbon is reduced

ক) কার্বন
 কমে

b) Carbon is oxidised

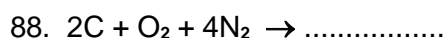
ক) কার্বন
 বাড়ে

c) Metal oxide is reduced to metal

৮৭. $Zn+C \rightarrow Zn+CO$,
 $2Fe_2O_3+3C \rightarrow 4Fe+2CO_2$

d) Metal oxide is oxidised

৮৭. $Zn+C \rightarrow Zn+CO$,
 $2Fe_2O_3+3C \rightarrow 4Fe+2CO_2$



a) $2CO+2N_2$

b) $CO+H_2$

c) $CO + CH_4$

d) $CO + NO_2$

89. Which of the following is most harmful for human body ?

৮৯. নিচের কোনটি মানুষের
 দেহের জন্য সবচেয়ে
 ক্ষতিকারক?

a) CO

b) CO_2

c) Oxides of nitrogen

ক) নাইট্রজেন
 অক্সাইড

d) Lead compounds

ক) সীসা
 যৌগ

90. Incomplete combustion of a fuel gives

ইন্ধনের অসম্পূর্ণ দহনত উৎপন্ন হয়।

ইন্ধনের অসম্পূর্ণ দহনে উৎপন্ন হয়।

a) CO

b) CO_2

c) SO_2

d) Oxides of Nitrogen

ক) নাইট্রজেন
 অক্সাইড

91. Which of the following dissolves more rapidly in blood haemoglobin than oxygen ?

৯১. নিচের কোনটি রক্তের হিমোগ্লোবিন
 তে অক্সিজেনের চেয়ে
 দ্রুত দ্রবীভূত হয়?

a) Ozone

ক) অক্সিজেন

b) Nitrous oxide

ক) নাইট্রাস
 অক্সাইড

c) Sulphur dioxide

ক) সালফিউর
 ডাইঅক্সাইড

d) Carbon monoxide

ক) কার্বন
 মনোক্সাইড

92. *Gundhi* bug is a small insect that attacks

গান্ধী পোকা ক আক্রমণ করে।

গান্ধী পোকা কে আক্রমণ করে।

a) Wheat

ক) গম

b) Millet

ক) জল
 মিলেট

c) Paddy

ক) ধান

d) Cotton

ক) কাপড়

99. Energy currency of the cell is

.....
.....

- a) ADP
- b) FTP
- c) ATP
- d) All of these

100. Velocity of light is maximum in

.....
.....

- a) Diamond
- b) Water
- c) Glass
- d) Vacuum

XXX THE END XXX