SSC CHSL- MODEL PAPER

ENGLISH COMPREHENSION

Q1.Directions: In these questions the sentences have been given in **Active/ Passive Voice**. From the given alternatives choose the one which best expresses the given sentence in Passive/Active Voice.
We will know the outcome of these experiments after six months.
(a)The outcome of these experiments will be known after six months
(b)The outcome will be known of these experiments after six months
(c)After six months we will know the outcome of these experiments
(d)These experiments will have a known outcome after six months

Q2.Directions: In these questions the sentences have been given in **Active/ Passive Voice**. From the given alternatives choose the one which best expresses the given sentence in Passive/Active Voice.
Don't subject the animals to cruelty.
(a)The animals are not to be subjected to cruelty.
(b)The animals shall not be subjected to cruelty.
(c)The animals will not be subjected to cruelty.
(d) The animals should not be subjected to cruelty.

Q3.Directions : In these questions choose the word opposite in meaning to the word given in bold.
CULPABLE
(a) dependable
(b) blameless
(c) careless
(d) irresponsible

Q4.Directions : In these questions choose the word opposite in meaning to the word given in bold.
ENLIGHTEN
(a)slander
(b)bemoan
(c)darken
(d)befog

Q5.Directions: In the following questions, a sentence has been given in **Direct/Indirect Speech**. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.
"Let's give a party", said Jaya. "Let's not," said her husband.
(a)Jaya suggested giving a party but her husband answered in the negative.
(b)Jaya suggested giving a party but her husband opposed the idea.
(c)Jaya suggested giving a party but her husband contradicted her.
(d)Jaya suggested giving a party but her husband refused.

Q6.Directions: In the following questions, a sentence has been given in **Direct/Indirect Speech**. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.
Rita said to me, "Will you lend me this classic ?"Rita asked me
(a)if I would lend her that classic
(b)if she would lend me that classic
(c)if I will lend her that classic
(d)would I lend her that classic?

Q7. Directions : In each questions read each sentence to find out the whether there is **any error** in it. The error if any will be in one part of the sentence. The number of that part is the answer. Ignore the errors of punctuations if any.
The short story (1)/should not exceed (2)/more than two hundred words (3)/No error (4)
(a) The short story
(b) should not exceed
(c) more than two hundred words
(d)No error

Q8. Directions : In each questions read each sentence to find out the whether there is **any error** in it. The error if any will be in one part of the sentence. The number of that part is the answer. Ignore the errors of punctuations if any.
I went into(1)/the bank and (2)/ withdrew some money (3)/ No error (4)
(a) I went into
(b) The bank and
(c) withdrew some money
(d)No error

Q9. Wheat is not native to India and barley _____
(a)isn't either
(b) is either
(c) is neither
(d) isn't neither

Q10. Government must _____ the rise in prices
(a) cheque
(b)check
(c) cease
(d)seize

Q11.Directions: In the following questions, four alternatives are given for the **Idiom/Phrase** printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/ Phrase.
She tries very hard to keep up with heir rich neighbours.
(a)to imitate
(b)to keep in touch
(c)to avoid

(d)to be on par

Q12.Directions: In the following questions, four alternatives are given for the **Idiom/Phrase** printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/ Phrase.
The beleaguered politician was anxious to set the record straight.
(a)give a speech
(b)win party support
(c)give a correct account
(d)make a confession

Q13. **Directions**: Out of the four alternatives, choose the one which can be **substituted** for the given words/sentence.
The study of the origin and history of words
(a) Linguistics
(b) Etymology
(c) Verbose
(d) Anthology

Q14. **Directions**: Out of the four alternatives, choose the one which can be **substituted** for the given words/sentence.
To have a very high opinion of oneself
(a)Exaggeration
(b)Adulations
(c)Abundance
(d)Conceited

Q15. **Directions** : In these questions, the first and last sentence of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P,Q,R,S . These four parts are not given in proper order. Read the sentences and find out which of the four combinations is correct.
 1. Failure is nothing to be ashamed of for there is hardly any man who has not failed in life, not once but many times.
P.What is important is the way we take our failure
Q.It has been well said that he who never made a mistake never achieved anything of great worth
R.From the little child who tries to stand up to the would-be conqueror who tries to conquer some new territory, everyone has to face failure
S.If we face our failure boldly and resolve to fight again we are sure to achieve victory in the long run
6. Thus failures can prove stepping stones in our march to victory.
(a) RSQP
(b) PQRS
(c) RPQS
(d) RQPS

Q16. **Directions** : In these questions, the first and last sentence of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P,Q,R,S .

These four parts are not given in proper order. Read the sentences and find out which of the four combinations is correct.
1. A friend's rudeness is much more damaging than a stranger's.
P.You feel hurt instead of angry
Q.You feel that you're being taken for granted.
R.When a friend says sharply, "I don't have time to talk to you Just now."
S.When a friend shows up late for lunch or a shopping trip, with no good reason,
6. Friends after all, are supposed, to make up for the thoughtless, cruelties of strangers.
(a) RPSQ
(b) PRSQ
(c) SPQR
(d) QSPR

Q17.Directions: In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives which may **improve the bold part**. Choose the correct alternative. In case no improvement is needed, your answer is No Improvement.
You should not boasting of your achievements.
(a)boast for
(b) boast at
(c) boast of
(d) No improvement

Q18.Directions: In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives which may **improve the bold part**. Choose the correct alternative. In case no improvement is needed, your answer is No Improvement.
Only a few persons can stand on entreaties.
(a)against
(b) with
(c) in
(d) No improvement

Q19.Directions: In the following questions out of the four alternatives, choose the one which best expresses, the meaning of the given word.
 GARNISH
(a) paint
(b) adorn
(c) gamer
(d) banish

Q20.Directions: In the following questions out of the four alternatives, choose the one which best expresses, the meaning of the given word.
ROUT
(a) death
(b)defeat
(c) loss
(d)crash

Q21.DIRECTIONS : YOU HAVE ONE BRIEF PASSAGE WITH LIVE QUESTIONS. READ THE PASSAGE CAREFULLY AND CHOOSE THE BEST ANSWER TO EACH QUESTION OUT OF THE FOUR ALTERNATIVES.

Two hundred years after Malthus predicted that population growth would overtake food production by a margin of 256 to 9 the simple fact is that food production had always been ahead of the population growth. Malthus doomsday prediction simply did not come true due to two major reasons first population did not grow geometrically and birth rates in all Western countries fell during the 20th Century resulting In -very slow population growth. Over the past quarter century birth rates have been falling in the developing countries too. Second modern agricultural practices and better irrigation have resulted in tremendous growth in food production in almost all parts of the globe with the notable exception of sub-Saharan Africa Therefore at the global level the Malthusian doomsday never befell on us. India s population grew by about two and a half times in the past 45 years -from 361 million in 1951 to an estimated 916 million in But during the same period India s food-grain production grew by nearly four times - from 51 million tones in 1951 to 191 million tonnes in As a result the per capita food grain availability in India has gone up considerably since the independence. That is the Malthusian prediction has not come true even in India.

In the developing countries the birth rate is
(a)increasing.
(b)doubling
(c)falling.
(d)static.

Q22. India s food production from 1951 to 1995 grew nearly
(a) five times.
(b) four times.
(c) three times.
(d) two times.

Q23. The food production had always been of population growth.
(a) slow
(b)ahead
(c) adequate
(d)stagnant

Q24. Malthus doomsday prediction did not come true due to two major reasons. They are
(a)rapid growth In population and Industrial development.
(b)very slow growth in population and modern agricultural practices and better irrigation.
(c)3) increase in per capita income and economic progress.
(d)better facilities in Health and Hygiene.

Q25. In the past forty five years India s population has grown about
(a)three and a half times.
(b) one and a half times.
(c)five times.
(d) two and a half times.

NUMERICAL APTITUDE

Q26.A vessel has 60 litres of solution of acid and water having 80% acid. How much water is added to make it a solution in which acid will be 60%?
(a) 48 ltr
(b) 20ltr
(c) 36 ltr
(d) none of these

Q27. The simple interest and compound interest on a certain sum of money with a given rate for a period of 2 years are Rs. 900 and Rs. 954 respectively. The sum of money is:
(a) Rs. 3700
(b) Rs. 3650
(c) Rs. 3850
(d) Rs. 3750

Q28. The speed of a boat along the stream is 12 km/hr and against the stream is 8 km/hr . the time taken by the boat to sail 24 km in still water is
(a) 2 hrs
(b) 3 hrs
(c) 2.4 hrs
(d) 1.2 hrs

Q29.XY and XZ are tangents to a circle. ST is another tangent to the circle at the point R on the circle which intersects XY and XZ at S and T respectively, If XY = 9 cm and TX = 15 cm, then RT is :
(a) 4.5 cm.
(b) 3 cm
(c) 7.5 cm
(d) 6 cm

Q30. When a number is divide 15, 20 or 35, each time the remainder is
8. Then the smallest number is:
(a) 428
(b) 427
(c) 328
(d) 338

Q31. In a mixture of 25 litres, the ratio of acid to water is 4:
1. Another 3 litres of water is added to the mixture. The ratio of acid to water in the new mixture is:
(a) 5:2
(b) 2: 5

(c) 3:5
(d) 5:3

Q32.A and B are two partners in a firm sharing the profit in the ratio 4 :
5. If the firm earns a profit of Rs. 14,130 then profit to be received by B
(a) 6,280
(b)7,850
(c) 1,570
(d) 3,140

Q33.A tap can fill an empty tank in 12 hours and another tap can empty half the tank in 10 hours. It both the taps are opened simultaneously, how long would it take for the empty tank to be filled to half its capacity?
(a) 10 hrs
(b) 30 hrs
(c) 15 hrs
(d) 20 hrs

Q34. If $\frac{x - x\tan^2 30°}{1+\tan^2 30°}$ = $\sin^2 30°$ + 4 $\cot^2 45°$ - $\sec^2 60°$. Then the value of x is :
(a) 1/4
(b) 1/√3
(c) 1/2
(d) 1/5

Q35. Given that √13 = 3.6 and √130 = 11.4, then the value of √13 + √1300 +√0.013 is equal to:
(a) 36.164
(b) 637.254
(c) 37.714
(d) 37.154

Q36. The greatest among the numbers
√2, $\sqrt[3]{3}$, $\sqrt[4]{5}$, $\sqrt[6]{6}$ is
(a) √2
(b) $\sqrt[3]{3}$
(c) $\sqrt[6]{6}$
(d) $\sqrt[4]{5}$

Q37.A train goes from Ballygunge to Sealdah at an average speed of 20 km/hour and comes back at an average speed of 30 km/hour. The average speed of the train for the whole journey is
(a) 27 km/hr
(b) 26 km/hr
(c) 25 km/hr
(d) 24 km/hr

Q38. The expression $x^4 – 2x^2 +k$ will be a perfect square if the value of k is
(a) 1
(b) 0
(c) 1/4
(d) 1/2

Q39.A person borrows Rs. 5000 for 2 years at 4% per annum simple interest. He immediately lends it to another person at 25/4 % per annum simple interest for 2 years. His gain in this transaction is:
(a) Rs. 112.50
(b) Rs. 450
(c) Rs. 225
(d) Rs. 150

Q40.. The resent age of two persons are36 and 50 years respectively. If after years the ratio of their age will be 3: 4, then the value of n is:
(a) 4
(b) 7
(c) 6
(d) 3

Q41.A and B together can do a piece of work in 12 days. While B alone can finish it in 30 days. A alone can finish the work in:
(a) 20 days
(b) 25 days
(c) 15 days
(d) 18 days

Q42.A dealer sold 3/4th of his articles at a gain of 24%the remaining at cost price . Then the percentage of gain in the whole transaction is
(a) 15
(b) 18
(c) 24
(d) 32

Q43. Each of the height and base radius of a cone is increased by 100%. The percentage increase in the volume of the cone is
(a) 700%
(b) 400%
(c) 300%
(d) 100%

Q44. The least number which must be added to the greatest number of 4 digits in order that the sum may be exactly divisible by 307 is:
(a)132
(b)32
(c)43
(d)75

Q45. An article marked Rs. 800 is offered at Rs.736 in the off season. The rate of discount offered is :
(a)a) 10%
(b) 7%
(c) 7.5%
(d) 8%

Q46.A hollow cylindrical tube 20cm long. Is made of iron and its external and internal diameters are 8cm and 6cm respectively. The volume of iron used in making the tube is (π = 22/7)
(a)1760cu.cm
(b)880 cu.cm
(c)440 cu.cm
(d)220 cu.cm

Q47.A metallic sphere of radius 10.5 cm is melted and then recast into small cones each of radius 3.5 cm and height 3 cm. The number of cones thus formed is
(a) 140
(b) 132
(c) 112
(d) 126

Q48. The eliminate of θ from x cos θ – y sin θ = 2 and x sin θ + y cos θ = 4 will give
(a) $x^2 + y^2 = 20$
(b) $3x^2 + y^2 = 20$
(c) $x^2 – y^2 = 20$
(d) $3x^2 – y^2 = 10$

Q49. If $2\sin\left(\frac{\pi x}{2}\right) = x^2 + \frac{1}{x^2}$, then the value of $\left(x-\frac{1}{x}\right)$ is :
(a) -1
(b) 2
(c) 1
(d) 0

Q50. The price of petrol is increased by 25%. By how much percent a car owner should reduce his consumption of petrol so that the expenditure on petrol would not be increased?
(a) 25%
(b) 30%
(c) 50%
(d) 20%

GENERAL INTELLIGENCE & REASONING

Q51.Direction: In each of the following questions, select the related word from the given alternatives.
Safe : Secure : : Protect : ?
(a) guard
(b) lock
(c) sure
(d) conserve

Q52.Direction: From among the given alternatives select the one in which the set of numbers is most like the set of numbers given in the question.
Given set : (1, 5, 12)
(a)7,11,35
(b)4,8,24
(c) 10, 14, 44
(d) 9, 13, 42

Q53.Direction: In each of the following questions, select the related letter from the given alternatives.
MASTER : OCUVGT : : LABOUR :?
(a) NCDQWT
(b) NDERWT
(c) NBCRWT
(d) NEDRWT

Q54. M and F is a married couple. A and B are sisters. A is the sister of F. Who is B to M?
(a) Sister
(b) Sister-in-law
(c) Niece
(d) Daughter

Q55.Direction: In The following Question you have to identify the correct response from the given premises stated according to following symbols:
If + stands for '÷', '×' stands '+', '-' stands for '×', and '÷' stands for '-' then which of the following statements is correct ?
(a)36 × 6 + 7 ÷ 2 - 6 = 20
(b)36 ÷ 6 + 3 × 5 - 3 = 45
(c)36 + 6 - 3 × 5 ÷ 3 = 24
(d)36 - 6 + 3 × 5 ÷ 3 = 74

Q56. Find the odd man out from the given responses ?
(a) Analysis
(b) Search
(c) Conclusion
(d) Investigation

Q57. Find the odd man out from the given responses ?
(a) Uncle-Niece
(b)Wife-Husband
(c)Brother-Sister
(d)Nephew-Uncle

Q58. Find the odd man out from the given responses ?
(a) Sun
(b)Moon
(c). Sky
(d)Star

Q59. Raju is Ramu's neighbour and he stays 100 metres away towards southeast. Venu is Raju's neighbour and he stays 100 metres away towards southwest. Khader is Venu's neighbour and he stays 100 metres away towards northwest. Then where is the position of Khader's home in relation to Ramu's ?
(a) South-East
(b) South-West
(c) North-West
(d) North

Q60.A man travels 4 km due north, then travels 6 km due east and further travels 4 km due north. How far he is from the starting point?
(a) 8 km
(b) 10 km
(c) 6 km
(d) 14 km

Q61.Directions: In each of the following questions a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series

5, 2, 7, 9, 16, 25, ?
(a) 41
(b)52
(c) 48
(d)45

Q62.Directions: In each of the following questions a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series

0, ?, 8, 27, 64, 125
(a)1
(b)2
(c)3
(d)4

Q63.Direction: The number of letters skipped in between adjacent letters in the series is decreased by one. Which of the following series observes the rule ?
(a) DJOTV
(b) DJOSV
(c) DJOSW
(d) DIOSU

Q64. If CAT is coded as 3120, what code number can be given to NAVIN?
(a) 14122914
(b)49274654
(c) 73957614
(d) None of these

Q65. If Blue means Pink, Pink means Green, Green means Yellow, Yellow means Red and Red means White, then what is the colour of turmeric?
(a) Red
(b) Green
(c) Pink
(d) Yellow

Q66. If NOTE is written as PQVG, then TIME is written as
(a) VQOG
(b)VKOG
(c) VOKG
(d)VGKO

Q67.Direction: In the following questions a word is followed by four other words one of which cannot be formed by using the letter of the given word. Find this word.
LEDMENTNOWGEACK
(a)KNOWLEDGE
(b)GENTLE
(c)AGENCY
(d)LODGE

Q68.Direction:In the following questions a word is followed by four other words one of which cannot be formed by using the letter of the given word. Find this word.
COMMERCIALISM
(a)CROME
(b)LANCER
(c) MISER
(d)OSCAR

Q69. Name a single letter, which can be prefixed to the following words in order to obtain entirely new words ?
TILL TABLE PILE TAB PRING
(a) C
(b) S
(c) B
(d) H

Q70. If NOTE is written as PQVG, then TIME is written as
(a) VQOG
(b)VKOG
(c) VOKG
(d)VGKO

Q71.Directions : In each of the following questions a word is represented by only one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternative are represented by two classes of alphabets as in the 2 matrices given below. The column and rows of Matrix I are numbered from 0 to 4 and that of Matrix II from 5 to 9. A letter can be represented first by its row and next by column number. For example 'N' can be represented by 02, 21 etc. '0' can be represented by 65, 96 etc. Similarly you have to identify the correct set for the word given in each question.

Matrix-1

	0	1	2	3	4
0	P	W	N	I	S
1	I	S	P	W	N
2	W	N	I	S	P
3	S	P	W	N	I
4	N	I	S	P	W

Matrix-II

	5	6	7	8	9
5	A	E	R	O	H
6	O	H	A	E	R
7	E	R	O	H	A
8	H	A	E	R	O
9	R	O	H	A	E

SORROW
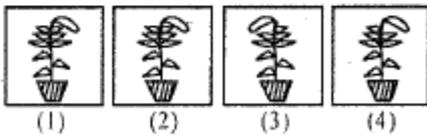(a)23, 96, 69, 88, 65, 33
(b)23, 43, 14, 33, 65, 78

(c)11, 66, 69, 65, 59, 97
(d)42, 65, 95, 88, 77, 44

Q72.Directions: which of the answer figures is exactly the mirror image of the given figure?

Question Figure :

Answer Figures :
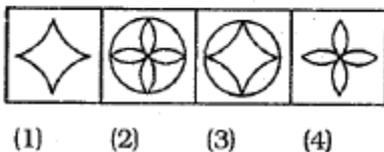

(a)[1]
(b)[2]
(c)[3]
(d)[4]

Q73.Directions: A piece of paper is folded and cut as shown below. How will it appear when opened? Select your response from the answer figures.
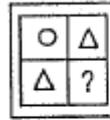
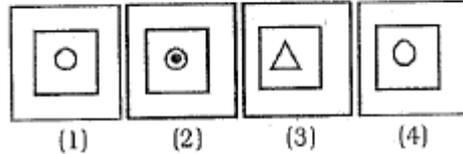**Question Figures :**

Answer Figures :

(a)[1]
(b)[2]
(c)[3]
(d)[4]

Q74.Directions: Which answer figure will complete the question figure?
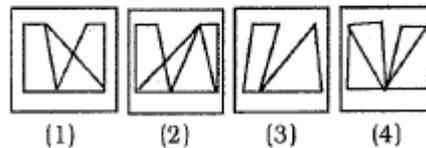
Question Figure :

Answer Figures :

(a)[1]
(b)[2]
(c)[3]
(d)[4]

Q75.Directions: In which answer figure is the given figure embedded?

Question Figure :

Answer Figures :

(a)[1]
(b)[2]
(c)[3]
(d)[4]

GENERAL AWARENESS

Q76. What happens to substrate molecules at an enzyme active site?
(a) They become covalently bonded to the enzyme
(b) They become catalysts
(c) They react with oxygen in the air
(d) They undergo change to a desired product

Q77. Asia's largest inland saltwater lagoon as well as world's largest breeding place for colonies of flamingoes, white-bellied sea eagles, jacanas and herons is
(a)Bhittar kanika Wild Life Sanctuary
(b)Ranganathittu Wild Life Sanctuary
(c)Thattekad Bird Sanctuary
(d)Chilka Lake Bird Sanctuary

Q78. Some of the regional bases of militant nationalism are given below. Find the odd one out
(a)Bengal
(b)Punjab

(c)Gujarat
(d)Maharashtra

Q79. The Gandhi led Champaran satyagraha aimed at
(a)securing the rights of Harijan's
(b)establishing Hindu-Muslim Unity
(c)solving indigo cultivators problem
(d)None of the above

Q80. One of the following is wrongly listed with regard to National Health Policy (2002)
(a)To achieve acceptable standard of good health system
(b)To lay emphasis on rational use of medicines
(c)To improve health care
(d)To upgrade the infrastructure in the existing institutions

Q81. Which state has witnessed the highest growth rate of population during 2001-11?
(a)Arunachal Pradesh
(b)Bihar
(c)Meghalaya
(d)Andhra Pradesh

Q82. Arrange the various writers of Sanskrit drama in an ascending chronological order:
1.Bhasa
2.Asvaghosha
3.Bhavabhuti
4.Kalidasa
(a)1,4, 2, 3
(b)2,1,4,3
(c)3, 1,4,2
(d)2,3,1,4

Q83. Pituitary gland is located in
(a)brain
(b)kidney
(c)liver
(d)intestine

Q84.A test tube baby means :
(a)a baby grown in a test tube.
(b)embryo fertilised in uterus and developed in test tube.
(c)embryo fertilised and developed in uterus.
(d)fertilisation in vitro and then transplantation in the uterus.

Q85.82(12)° E longitude is geographically significant to India because
(a)it determines the Indian standard time
(b)it has a bearing on the tropical climate of India
(c)it divides India into eastern and western zones
(d)it enables determining local time in eastern India

Q86. Nagpur gets scanty rainfall because it is located with reference to Sahyadri Mountains towards

(a)windward side
(b)seaward side
(c)onshore side
(d) leeward side

Q87. The first metal used by man was
(a)Alumunium
(b) Copper
(c) iron
(d)Silver

Q88. Which of the following PSU's has been privatised?
(a) HZL
(b) CMC
(c)Hotel Corporation of India
(d)NALCO

Q89. Why the needle of iron swims on Water surface when it is kept gently ?
(a)It will remain under the water when it will displace more water than its weight
(b)the density of needle is less than that of water
(c)due to surface tension
(d)due to its shape

Q90. If the temperature of a place Increases suddenly the relative humidity
(a)Increases
(b)Decreases
(c)Remains constant
(d)Fluctuates

Q91. Who was the Chairman of the Constituent Assembly ?
(a)Dr. B.R. Ambedkar
(b)Dr. Rajendra Prasad
(c)Jawahar Lal Nehru
(d)Vallabh Bhai Patel

Q92. In which of the Parliamentary Financial Committees is the Rajya Sabha not represented.?
(a)Public Accounts Committee
(b) Estimates Committee
(c)Committee on Public Undertakings
(d)Expenditure Committee

Q93. Which of the following gases is present under pressure in soft drinks?
(a) Oxygen
(b) Nitrogen
(c) Carbon dioxide
(d) Nitrous oxide

Q94. Bhopal gas tragedy is associated with leakage of
(a) carbon dioxide
(b) nitrogen dioxide
(c) Sulphur dioxide
(d) methyl isocynate

Q95. Which among the following is a distinctive feature by which a CD ROM drive is classified in a personal computer ?
(a)Software bundle
(b)Data transfer rate
(c)Memory capacity
(d)Storage period

Q96. The four largest planets of the Solar System in decreasing size are
(a)Jupiter Mercury Saturn and Uranus
(b)Mercury Jupiter Saturn and Neptune
(c)Jupiter Saturn Uranus and Neptune
(d) Jupiter Mercury Saturn and Neptune

Q97. The disease in which the sugar level of blood increases is known as
(a)Diabetes mellitus
(b)Diabetes insipid us
(c) Diabetes imperfectus
(d)Diabetes sugarensis

Q98. The colour of the eye depends upon the pigment present In
(a) cornea
(b) iris
(c) rods
(d) cones

Q99. The material used in the manufacture of lead pencil is
(a) Graphite
(b) Lead
(c) Carbon
(d) Mica

Q100. Among the following the hardest metal is
(a) Gold
(b) Iron
(c) Platinum
(d) Tungsten

79d	**80**b	**81**c	**82**b	**83**a	**84**d
85a	**86**d	**87**b	**88**a	**89**c	**90**b
91b	**92**b	**93**c	**94**d	**95**b	**96**c
97a	**98**b	**99**a	**100**d		

1a	**2**d	**3**b	**4**d	**5**b	**6**a
7c	**8**a	**9**a	**10**b	**11**b	**12**c
13b	**14**d	**15**d	**16**a	**17**c	**18**d
19b	**20**b	**21**c	**22**b	**23**b	**24**b
25d	**26**b	**27**d	**28**c	**29**d	**30**a
31a	**32**b	**33**c	**34**c	**35**c	**36**d
37d	**38**a	**39**c	**40**c	**41**a	**42**b
43a	**44**a	**45**d	**46**c	**47**d	**48**a
49d	**50**d	**51**a	**52**b	**53**a	**54**b
55d	**56**c	**57**d	**58**c	**59**c	**60**b
61a	**62**a	**63**b	**64**a	**65**a	**66**b
67c	**68**b	**69**b	**70**b	**71**d	**72**d
73b	**74**a	**75**b	**76**d	**77**d	**78**c