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.
The king gave him a reward.
(a)He was given by the king a reward.
(b)He was given the reward by a king.
(c)He was given a reward by the king.
(d)A reward was given by him to ' the king.

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.
Someone saw him picking up a gun.
(a)He was seen pick up a gun by someone.
(b)He was seep picking up a gun by someone
(c)He was seen by someone when he was picking up a gun
(d)He was seen by someone pick a gun

Q3.Directions : In these questions choose the word opposite in meaning to the word given in bold.
ERUDITE
(a) educated
(b) unscholarly
(c) scholarly
(d) possessive

Q4.Directions : In these questions choose the word opposite in meaning to the word given in bold.
PREDILECTION
(a)acceptance
(b)attraction
(c)dislike
(d)choice

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.
The chairman of the selection committee said, "We shall finalize the rest of our team after we have selected the skipper."
(a)The chairman of the selection committee told that they would finalise the rest of our team after we have selected the skipper
(b)The chairman of the selection committee said that we would finalise the rest of our team after we have selected the skipper.
(c)The chairman of the selection committee said that they would finalise the rest of their team after they selected the skipper.
(d)The chairman of the selection committee said that they would finalise the rest of their team after they had selected the skipper.

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.
 "I shall unlock the secrets of their success," he said.
(a)He said that he shall unlock the secrets of their success.
(b)He said that he should unlock the secrets of their success.
(c)He said that he would unlock the secrets of their success.
(d)He said that he will unlock the secrets of their success

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 officer (1)/ is angry on the clerk (2)/ for not attending to the work (3)/ No error (4)
(a) The officer
(b) is angry on the clerk
(c) for not attending to the work
(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.
The value of the dollar (1)/ declines as the rate (2) / of inflation raises (3) / No error (4)
(a)The value of the dollar
(b) declines as the rate
(c) of inflation raises
(d)No error

Q9. On my return from a long holiday I had to_____with a lot of work
(a) catch on
(b) catch up
(c) make up
(d) take up

Q10. The farmers suffered because the monsoon did not arrive _____ time
(a)at
(b)by
(c)on
(d)after

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.

Raj couldn't pay the bill, so he asked the owner to put It on the cuff.
(a)on credit
(b)against his credit card
(c)In his bank account
(d)in his friend's account

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 ruling party has been Warned not to play to the gallery.
(a)to give importance to the common man
(b)to try to be clever
(c)to seek to win approval
(d)to side-track the issue

Q13. **Directions**: Out of the four alternatives, choose the one which can be **substituted** for the given words/sentence.

Act of deceiving somebody in order to make money.
(a)Fraud
(b) Robbery
(c) Pickpocket
(d) Theft

Q14. **Directions**: Out of the four alternatives, choose the one which can be **substituted** for the given words/sentence.

Study of insects
(a)Ecology,
(b) Embryology
(c) Entomology
(d) Biology

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. By far the most logical step
P.to relieve the housewife of routine
Q.which can be programmed
R.to carry out standard operations
S.is to provide a robot
6. when switched by the housewife.
(a)RSPQ
(b) PSQR
(c) QSPR
(d) SRQP

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) The farmer wanted to please the men.
(P) The poor donkey struggled and kicked.
(Q)They tied his legs together and slung him on a pole.
(R)The farmer and his son put the ends of the pole on their shoulders.
(S)He and his son got off the donkey.
(6) They walked into the town carrying the donkey.
(a) PQRS
(b)SQRP
(c) RSQP
(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.

The newspaper provides more international news than domestic
(a) national
(b)alien
(c) . provincial
(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.

I complimented Raju for his pro motion.
(a)with
(b) on
(c) about
(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.

ADULATION
(a). duration
(b) argument
(c) flattery
(d) institution

Q20.Directions: In the following questions out of the four alternatives, choose the one which best expresses, the meaning of the given word.

GENUINE
(a)authentic
(b) legitimate
(c) reliable
(d) pure

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.

The slamming of the doors had aroused Mother she peeped out of her room. "What on earth are you boys doing?" she demanded. Herman ventured out of his room "Nothing" he said gruffly but he was in colour a light green. "What was all that running around downstairs" said Mother. So she had heard the steps too. We just looked at her. "Burglars" she shouted intensively. I tried to quieted her by starting lightly downstairs" "Come on Herman " I said. TU stay back with Mother " he said "She s all excited". I stepped back on the landing. "Don t either of you go a step said Mother. We call the police." Since the phone was downstairs I didn't t see how we were going to call the police - nor did I want the police but Mother made one of her quick incomparable decisions. She flung up a window of her bedroom which faced the bedroom window of the house of a neighbour picked up a shoe and whammed it through a pane of glass.

Herman wanted to remain with Mother because
(a)she was excited.
(b)he wanted to protect her.
(c)he was lazy to climb down the staircase.
(d)he was frightened.

Q22. Who or what would be running around downstairs ?
(a)Rats
(b) The brothers
(c) Burglars
(d) Mother

Q23. What was the difficulty in calling the police ?
(a)The phone was downstairs.
(b) There was no phone in the house.
(c) Mother did not want to call the police.
(d) The police would not-come

Q24. "He [Herman) was in colour a light green." This means he
(a)was sick
(b)was frightened
(c)3 the room had a green light
(d)his dress was green in colour

Q25. Ghoose the title most appropriate to the passage. -
(a)Call the police
(b)Mysterious sounds in the night
(c)Mother s timely action
(d) Beware of burglars

NUMERICAL APTITUDE

Q26. If the population of a town is 64000 and its annual increase is 10%, then its population at the end of 3 years will be:

(a) 80000
(b)85184
(c) 85000
(d)85100

Q27. If the rate of interest be 4% per annum for first year, 5% per annum for second year and 6% per annum for third year, then the compound interest of Rs. 10000 for 3 years will be:
(a) Rs. 1600
(b) Rs. 1625.80
(c) Rs. 1575.20
(d) Rs. 2000

Q28. Speed of motorboat in still water is 45 kmph. If the motorboat travels 80 km along the stream in 1 hour 20 minutes, then the time taken by it to cover the same distance against the stream will be :
(a) 3 hrs
(b) 1 hrs 20 min
(c) 2 hrs 40 min
(d) 2 hrs 55 min

Q29. Given that : Δ ABC ~Δ PQR, (area Δ PQR)/ (area ΔABC) = 256/441 and PR = 12 cm, then AC is equal to?
(a) 12 √2 cm
(b) 15.5 cm
(c) 16 cm
(d) 15.75 cm

Q30. The greatest number, by which 1657 and 2037 are divided to give remainders 6 and 5 respectively, is:
(a) 127
(b) 133
(c) 235
(d) 305

Q31. A person has a chemical of Rs. 25 per liters. In what ratio should water be mixed with chemical the mixture at Rs. 20 litres he may get profit of 25%
(a) 14:9
(b) 16:9
(c) 9:14
(d) 9:16

Q32. 11250 are divided among A, B and C so that A may receive one half as much as B and C together receive and B receives one-fourth of what A and C together receive. The share of A is more than that of B by.
(a) Rs. 2500
(b) Rs. 1500
(c) Rs. 1800
(d) Rs. 650

Q33. A tap can fill a cistern in 8 hours and another tap can empty it in 16 hours. If both the taps are open, the time (in hours) taken to fill the tank will be :
(a) 8

(b) 10
(c) 16
(d) 24

Q34. If θ + Φ = $\frac{\pi}{2}$ and sin θ = $\frac{1}{2}$, then the value of sin Φ is :
(a) 1
(b) 1/√2
(c) 1/2
(d) √3/2

Q35. The value of $\sqrt[3]{\frac{0.2 \times 0.2 \times 0.2 + 0.04 \times 0.04 \times 0.04}{0.4 \times 0.4 \times 0.4 + 0.08 \times 0.08 \times 0.08}}$
(a) 0.5
(b) 0.25
(c) 0.75
(d) 0.125

Q36. If √3 = 1.732, is given, then the value of $\frac{2+\sqrt{3}}{2-\sqrt{3}}$ is
(a) 11.732
(b) 13.928
(c)12.928
(d) 13.925

Q37. Two trains of equal length are running on parallel lines in the same **direction** at the rate of 46 km/hr and 36 km/hr, The faster train passes the slower train in 36 seconds. The length of each train is
(a) 50 m
(b) 72 m
(c) 80 m
(d) 82 m

Q38. If x^2 = y + z, y^2 = z + x, z^2 = x + y, then the value of $\frac{1}{x+1}$ + $\frac{1}{y+1}$ + $\frac{1}{z+1}$:
(a) – 1
(b) 1
(c) 2
(d) 41

Q39. The simple interest on a sum after 4 years is 1/5 of the sum. The rate of interest per annum is:
(a) 4%
(b) 5%
(c) 6%
(d) 8%

Q40. If the annual income of A,B and C are in the ratio 1 : 3 : 7 and the total annual income of A and C is Rs. 800000, then the monthly salary of B (In Rs.)Is :
(a) 20000
(b) 25000
(c) 30000
(d) 15000

Q41.A can do 1/2 of a piece of work in 5 days, B can do 3/5 of the same work in 9 days, C can do 2/3 of that work in 8 days. In how many days can three of them together do the work?
(a) 3 days
(b) 5 days
(c) 9/2 days
(d) 4 days

Q42. If the price of eraser is reduced by 25%. A person can buy 2 more erasers for a rupee. How many erasers are available for a rupee after reduction?
(a) 8
(b) 6
(c) 4
(d) 2

Q43. The edges of a rectangular box area in the ratio 1 : 2: 3 and its surface area is 88 cm

². The volume of the box is

(a) 24 cm³

(b)48cm³

(c) 64 cm³

(d)120 cm³

Q44. The sum of all those prime numbers which are not greater than 17 is
(a)59
(b)58
(c)41
(d)(b)42

Q45. The marked price of a table is Rs. 8
00. A retailer bought it after two successive discounts of 10% and 15%. He spent Rs. 13 on transportation and sold it for Rs.8
75. His profit was
(a)40%
(b) 37%
(c) 28%
(d) 25%

Q46. The whole surface of a cube is 150sq.cm. then the volume of the cube is:
(a) 125cm³
(b) 216cm³
(c) 343cm³
(d) 512cm³

Q47. A sector is formed by opening out a cone of base radius 8 cm and height 6 cm. Then the radius of the sector is (in cm)
(a) 4

(b) 8
(c) 10
(d) 6

Q48. If θ be a positive acute angles satisfying $\cos^2\theta + \cos^4\theta = 1$, then the value of $\tan^2\theta + \tan^4\theta$ is :
(a) 3/2
(b) 1
(c) 1/2
(d) 0

Q49. The value of cos1° cos 2° cos3° cos 180° is :
(a) 1/2
(b) 0
(c) 1
(d) √3/2

Q50. Two numbers A and B are such that the sum of 5% of A and 4% of B is 2/3rd of the sum of 6% of A and 8% of B. the ratio A:B is :
(a) 4:3
(b) 3:4
(c) 1:1
(d) 2:3

GENERAL INTELLIGENCE & REASONING

Q51.Direction: In each of the following questions, select the related word from the given alternatives.
Flow : River : : Stagnant : ?
(a)Pool
(b) Rain
(c) Stream
(d) Canal

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 : (6, 30, 90)
(a)6,42,86
(b)7,42,218
(c) 6, 24, 70
(d) 8, 48, 192

Q53.Direction: In each of the following questions, select the related letter from the given alternatives.
ADBC : WZXY : : EHFG : ?
(a) STUV
(b) TUSV
(c) STVU
(d) SVTU

Q54. C is wife of B, E is the son of C, A is the brother of B and father of D. What is the relationship of E to D ?
(a) Mother
(b) Sister
(c) Brother
(d) Cousin

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 division, '+' stands for subtraction, '÷' stands for multiplication, '×' stands for addition, then which one of the following equations is correct?
(a)70 - 2+ 4 ÷5×6=44
(b)70 - 2+ 4 ÷5×6=21
(c)70-2+ 4 ÷5×6=341
(d)70-2+ 4 ÷5×6=36

Q56. Find the odd man out from the given responses ?
(a) Lion
(b)Goat
(c) Tortoise
(d)Centaur

Q57. Find the odd man out from the given responses ?
(a) Paper-White
(a)Sky - Blue,
(c) Cassette - Song
(d)Leaf - Green

Q58. Find the odd man out from the given responses ?
(a) Lakshadweep
(b)Tamil Nadu
(c)Andhra Pradesh
(d)Kerala

Q59.K is a place which is located 2 km away in the north-west **direction** from the capital P. R is another place that is located 2 km away in the south-west **direction** from K. M is another place and that is located 2 km away in the north-west **direction** from R. T is yet another place that is located 2 km away in the south-west **direction** from M. In which **direction** is T located in relation to P ?
(a) South-west
(b) North-west
(c) West
(d) North

Q60.A man walks 7 km towards north before taking left turn and walks further 5 km. Then the takes left turn and walks 15 km. Finally he takes left turn again and walks 5 km. How much distance is he away from the starting point ?
(a) 8 km
(b) 12 km
(c) 15 km
(d) 22 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

3, 7, 23, 95, ?
(a)575
(b)479
(c)128
(d)62

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

1, 8, 27, 64, ?
(a) 343
(b)125
(c)216
(d)729

Q63. **Direction**: Which one set of letters when sequentially placed at the gaps in the given letters series shall complete .
ab_cba_bcc_aabccb_ _bccba
(a)abbac
(b)ccaab
(c) abcab
(d)cabaa

Q64. If E = 5, PEN=35, then PAGE = ?
(a)28
(b) 29
(c) 36
(d) 27

Q65. If H = 8 and HAT = 29, find how much BOX = ?
(a)46
(b)43
(c) 42
(d)41

Q66. In a certain code, PRIEST is written as OQHDRS. PRISTINE can be written as
(a)OQHRSHMD
(b)OSHRQMDH
(c)QORHHSMD
(d)QOHRSHMD

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.
ADMINISTRATION
(a)STATION
(b) TRADITION
(c) MINISTER
(d) RATION

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.
CORRESPONDENT
(a)SPEED
(b) ORDER
(c) SPOON
(d) ARREST

Q69.Direction: From the given alternative words, select the word which can be formed using the letters of the given word
OCCUPATIONAL
(a) NATURAL
(b) PORTION
(c) RATIONAL
(d) OPTIONAL

Q70. In a certain code, PRIEST is written as OQHDRS. PRISTINE can be written as
(a)OQHRSHMD
(b)OSHRQMDH
(c)QORHHSMD
(d)QOHRSHMD

Q71.Directions : Given below are two Matrices of Twenty-five cells, each containing two classes of alphabets. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row number and the next by its column number. In each of the following questions, identify one set of number pairs out of (1), (2), (3) and (4) which represents the given word. Below are two matrices of twenty five cells each containing two classes of alphabets. The columns and rows of matrix I are numbered 0 to 4 and that of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row number and next by the column number. If A' can be represented by 'OT, '41' etc. similarly 'R' can be represented by '59', '78' etc. In each of the following questions, identify one set of number pairs out of (1), (2), (3) and (4) which represents the given word.

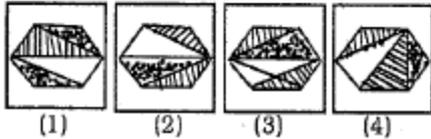| Matrix-I						Matrix-II				
	0	1	2	3	4		5	6	7	8	9
0	A	C	B	D	E	5	P	R	V	O	G
1	M	T	L	K	H	6	V	O	F	R	I
2	B	M	D	A	T	7	S	S	P	G	F
3	N	C	B	H	A	8	J	G	R	O	I
4	E	L	A	K	T	9	1	F	Y	P	P

MAGI
(a)
21, 42. 86. 69
(b)
21, 42. 86. 69
(c)
21, 42. 86. 69
(d)
21, 42. 86. 69

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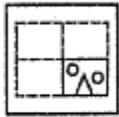
Question Figure :
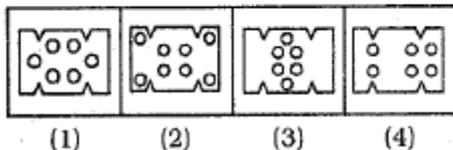

Answer Figures :

(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.
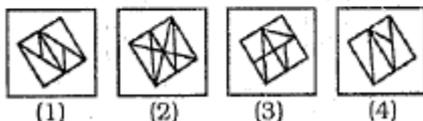
Question Figure :

Answer Figures :

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

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

Given Figure :

Answer Figures :

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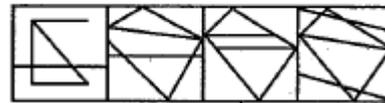
(b)[2]
(c)[3]
(d)[4]

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

Question Figures :

Answer Figures :

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

GENERAL AWARENESS

Q76. The vitamin that helps in blood clotting is
(a)Vitamin C
(b) Vitamin D
(c) Vitamin E
(d) Vitamin K

Q77. The noble gas used for the treatment of cancer is
(a) Helium
(b)Argon
(c) Krypton
(d)Radon

Q78. Hard steel contains
(a) 2 to 5 per cent carbon
(b) 5 to 5 per cent carbon
(c) 1 to 4 per cent carbon
(d) 01 to 04 per cent carbon

Q79. Copper is refined by
(a) roasting
(b) oxidation
(c) electrolysis
(d) zone refining

Q80. How many bytes are equal to one kilobyte ?
(a) 1050
(b)1000
(c) 976
(d)1024

Q81. What is the principle of a Life Jacket?
(a)It provides oxygen to a drowning person
(b)It increases the volume of the person to keep him afloat
(c)It decreases the volume of the person to keep him afloat

(d)The person can sit on It like a raft

Q82. Right to vote is mentioned in the parts of the Constitution relating to
(a)Fundamental Rights
(b)Union Legislature
(c)State Legislature
(d)Election

Q83. Which of the following is not a biodiversity hotspot?
(a)Succulent Karoo
(b)Wallacea
(c)Cerrado
(d)Antigua

Q84. Who was made the Home Minister when Jawaharlal Nehru formed the interim Government in 1946?
(a)Mohammad Ali Jinnah
(b)Baldev Singh
(c)Liaqat Ali Khan
(d)Sardar Patel

Q85. Select the statements where the quotes have been ascribed to the correct source:
1.Such an opportunity for uniting Hindus and Mohammedans would not arise in a hundred years: J. L Nehru
2.Gandhi had a curious knack for doing the right thing at the right psychological moment: S.C Bose
3.Must we train the three hundred and odd millions of Indians in the theory and practice of non-violent action before we go forward: M.K Gandhi
4.Uniform consistent and continuous obstruction of legislation: C.R Das
Choose the relevant code :
(a)Land 2
(b) 1 and 3
(c)Only 4
(d) 1,2 and 3

Q86. Art 105 (3) deals with
(a)Codification of Privileges of the members of Parliament
(b)Committee of Privileges of the members of Parliament
(c)Members salaries or Perks
(d)None of the above

Q87. Which theory cites the cigar shaped arrangement of the planets in its support?
(a) tidal hypothesis
(b) nebular hypothesis
(c) gaseous hypothesis
(d) tetrahedral theory

Q88. Samudraguptas achievements are mentioned in the
(a)Kaling edict
(b)Hathigumpha edict
(c)Indica
(d)Allahabad Prasasti

Q89. The early kings of Magadha stabilized their kingdom by using which of the following means?
1. Shifting the capital to Pataliputra
2. conquering the capital of Champa, Ariga
3.Expanding the frontier up to Gandhara
4. Incorporating the neighbouring kingdoms through wars and alliance.
5. Capturing the iron mines of Avanti Choose the correct code:
(a)1,2 and 3
(b)1,4 and 5
(c)2 and 4
(d)5 only

Q90. Virus contains
(a)Protein and lipid
(b)Nucleic acid and protein
(c)Lipid and carbohydrate
(d)Carbohydrate and nucleic add

Q91. Deficiency of vitamin D in children causes
(a)beriberi
(b)pellagra
(c)rickets
(d)scurvy

Q92. Which of the following States has longest coastline in India?
(a)Tamil Nadu
(b)Karnataka
(c)Gujarat
(d)Andhra Pradesh

Q93. Tummalapalle where huge reserves of uranium have been found as announced by the Atomic Energy Commission in July 2011 lies in the state of
(a)Jharkhand
(b)Andhra Pradesh
(c)Tamil Nadu
(d)Gujarat

Q94. The first attempt to introduce a representative and popular element in the governance of India was made through
(a)Indian Council Act 1861
(b)Indian Council Act 1892
(c)Indian Council Act 1909(d)Indian Council Act 1919
Q95. The Centre for Agricultural Marketing is located at
(a)Jaipur
(b) New Delhi
(c) Nagpur
(d) Hyderabad

Q96. Longitudinal waves cannot travel through

(a)Vacuum
(b)Solid
(c)Liquid
(d)Gas

Q97. The fuse in pure domestic electric circuit melts when there is a high rise in
(a) Inductance
(b) Current
(c) Resistance
(d) Capacitance

Q98. What is the period with in which a proclamation of national emergency made by the President is to be placed before each house of the Parliament for approval?
(a) within one month
(b) within two months
(c) within four months
(d) within six months

Q99. Which of the following countries have an Unwritten Constitution?
(a) U.S.A
(b) U.K.
(c) Pakistan
(d) India

Q100. Diamond is harder than graphite because of
(a) difference in layers of atoms
(b) tetrahedral structure of diamond
(c) difference of crystalline structures
(d) None of these

1c	**2**b	**3**b	**4**c	**5**d	**6**c
7b	**8**c	**9**b	**10**c	**11**a	**12**c
13a	**14**c	**15**b	**16**b	**17**a	**18**b
19c	**20**a	**21**a	**22**b	**23**a	**24**b
25c	**26**b	**27**c	**28**c	**29**d	**30**a
31d	**32**b	**33**c	**34**d	**35**a	**36**b
37a	**38**b	**39**b	**40**b	**41**d	**42**a
43b	**44**b	**45**a	**46**a	**47**c	**48**b
49b	**50**a	**51**a	**52**d	**53**d	**54**d
55b	**56**d	**57**c	**58**a	**59**c	**60**a
61b	**62**b	**63**d	**64**b	**65**d	**66**a
67c	**68**d	**69**d	**70**a	**71**a	**72**c
73b	**74**d	**75**a	**76**d	**77**d	**78**b
79a	**80**d	**81**b	**82**d	**83**d	**84**d
85c	**86**a	**87**a	**88**d	**89**c	**90**a
91c	**92**c	**93**b	**94**c	**95**a	**96**a
97b	**98**a	**99**b	**100**a		