Question Paper Code





AnswerKey

<u>1</u>	2 A	<u>3</u>	4 B	5 D	<u>6</u> B	7 A	<u>8</u> A	<u>9</u>	10 A	<u>11</u>	<u>12</u> B	13 A	<u>14</u>	<u>15</u> D
<u>16</u>	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	C	D	A	B	A	C	A	A	B	C	C	A	C	C
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B	C	C	B	B	C	C	A	C	A	A	A	C	A	B
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C	B	C	D	A	C	D		A	C	<u>C</u>	B	A	A	D
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A	B	D	A	C	B	A	A	C	A	D	A	B	C	A
76 C	77 B	78 A	79 C	80 A	81 D	82 A	83 A	84 B	85 A					

Q.No:1-Main Subject

A transducer measures a range of 0 - 200 N force with a resolution of 0.15% of full scale. What is the smallest change which can be measured by this transducer

۸١	3 V

B) 30N

C) 0.3N

D) 0.03N

Answer: C

Q.No: 2 - Main Subject

Overall thermal efficiency of a steam power station is in the range

A) 18 - 25%

B) 30 - 40%

C) 44 - 62%

D) 68 - 79%

Answer: A

Q.No: 3 - Main Subject

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integer, is/are:
A) LDA or STA
B) XCHG
C) RAR
D) LDAX or STAX
Answer: C
Q.No : 4 - Main Subject
66 kV is suitable for transmission of power over
A) 30km
B) (60km
C) 120km
D) 200km
Answer: B
Q.No : 5 - Main Subject
An electronegative gas is one in which
A) Positive ions are formed along with electrons
B) The gas has inherent negative charge
C) Gas is ionized due to electron bombardment
D) The gases in which electron gets attached to form negative ion
Answer: D
Q.No : 6 - Main Subject
The least severe fault on a transmission line is:
A) L-L-G
B) C L-G
C) C L-L
D) CL-L-L
Answer: B

Q.No: 7 - Main Subject

A speaker of 9 Ω , resistive impedance is connected to a supply of 10 V with an internal impedance of 1 Ω . A transformer of 1: 3 turns ratio is used between source and speaker. Determine the power taken by the speaker.

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Answer:	D

(Q.No : 12 - Main Subject
I	n 8086 program status word hasflags (status & control)
A) (8
	9
	16
	<u>4</u>
Ans	wer: B
(Q.No : 13 - Main Subject
E	Bi-polar function transistor have working following mode
A) (a) Cut-off - b) active - c) saturation
B) (
c) (
	a) active - b) Reverse - c) Forward
Ans	wer: A
(Q.No : 14 - Main Subject
	When the stator windings are connected in such a fashion that the number of poles are made half the speed of the rotor of a synchronous motor
A) (remains same as the original value
B) (decreases to half the original value
C) (increases to two times the original value
D) (tends to become zero
Ans	wer: C
(Q.No : 15 - Main Subject
E	Buchholz relay works on the principle of
A) (production of eddy currents whenever load changes are rapid

Answer: **D**

B) ionization of transformers oil

magnetic hum due to sudden variation in load

D) generation of gas due to breakdown of insulation

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Q.No: 16 - Main Subject

The function of connecting a zener diode in an UJT circuit, used for the triggering of SCRs, is to
A) expedite the generation of triggering pulses
B) delay the generation of triggering pulses
C) provide a constant voltage to UJT to prevent erratic firing
D) provide a variable voltage to UJT as the source voltage changes.
Answer: C
Q.No : 17 - Main Subject
For a diode, reverse recovery time is defined as the time between the instant diode current becomes zero and the instant reverse recovery current decays to
A) Zero
B) \bigcirc 10% of reverse peak current I_{RM}
C) \bigcirc 25% of I _{RM}
C) 2570 01 1 _{RM}
D) \bigcirc 15% of I_{RM}
Answer: C
Q.No : 18 - Main Subject
In a Δ – connected source during a Δ – connected load, the
A) load voltage and line voltage are one-third the source voltage for a given phase.
B) load voltage and line voltage are two-thirds the source voltage for a given phase
C) load voltage and line voltage cancel for a given phase
D) Oload voltage, line voltage and source phase voltage are equal for a given phase
Answer: D
Q.No : 19 - Main Subject
A wattmeter has a range of 1000V with an error of \pm 1% of full scale deflection. If the true power passed through it is 100W, then the relative error would be,
A) $\bigcirc \pm 10\%$
B) (± 5%
C) (± 1%
D) \bigcirc $\pm 0.5\%$

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Answer: A

0.	No	•	20	_	Main	Sub	iect
~		•	-				

In a synchronous generator, reactance calculated between the air gap line voltage and the corresponding short circuit current is known as,	
A) Saturated reactance	
B) Unsaturated reactance	
C) Critical reactance	
D) Compensated reactance	
Answer: B	
Q.No : 21 - Main Subject	
How many capacitances does the high frequency hybrid π' model of a Transistor has?	
A)	
B) 3	
c)	
D) Zero.	
Answer: A	
Allower, A	
Q.No : 22 - Main Subject	
The Threshold voltage of a MOSFET is defined as:	
A) The drain-source voltage at which the transistor goes into saturation	
B) The gate-source voltage at which the transistor goes into saturation	
C) The gate-source voltage at which a predefined value of drain current starts flowing	
D) The drain-source voltage at which a predefined value of drain current starts flowing	
Answer: C	
Q.No : 23 - Main Subject	
The clearances normally adopted in HV laboratories for AC and impulse voltages are	
A) 100 to 200 kV/m for AC and 500 kV/m for impulse	
B) 300 kV/m for AC and 500 kV/m for impulse	
C) 30 kV/m for AC and 50 kV/m for impulse	
D) 10 kV/m for AC and 50 kV/m for impulse	
Answer: A	

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Q.No: 24 - Main Subject

Dipole & dipole movement equation is

- A) \bigcirc m = Q.I Coulomb meter
- B) $\nabla^2 v = -e_v/\epsilon$
- C) O dB = $\frac{\mu_o Idl}{4\pi r^2} sin\theta$
- D) \bigcirc emf = $\frac{d\emptyset}{dt}$

Answer: A

Q.No: 25 - Main Subject

If in a synchronous motor, driving a given mechanical load and drawing current at a loading power factor from constant voltage supply its field excitation is increased, its power factor

- A) will become more
- B) will become less
- C) will remain unchanged
- D) will become unity

Answer: **B**

Q.No: 26 - Aptitude

Find the remainder when 577²³⁴ is divided by 4.

- A) 0 5
- B) 4
- C) (1
- D) 2

Answer: C

Q.No: 27 - Aptitude

Find the least number which when divided by 21, 25 and 35 leaves a remainder of 13.

- A) 128
- B) 518
- C) 538
- D) 48

Answer: C

Q.No: 28 - Aptitude

	The length of a rectangle, with perimeter 20, increases by 128.57%. Find the percent increase in its area if the initial length of the rectangle is 7 and its perimeter increases by 100%.
A)	204.76%
B)	198.56%
C)	228.26%
D)	200%
Ar	nswer: A
	Q.No : 29 - Aptitude
	The population of a village is 11000. If the number of children increases by 11% and the number of adults increases by 20%, the population becomes 12660. Find the population of children in town.
A)	<u></u>
	6500
C)	
D)	
Δι	nswer: C
,	
	Q.No : 30 - Aptitude
	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four.
A)	
	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four.
B)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5
B) C)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75
B) C) D)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5
B) C) D)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0
B) C) D)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0 nswer: C
B) C) D) At	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0 0 Sweer: C Q.No: 31 - Aptitude Krishna, whose bowling average before his last match was 9.4 runs per wicket, takes five wickets for 19 runs in his last match, thereby decreasing his present average by 0.4 runs per wicket. How many wickets did he take before the last match?
B) C) D) An	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0 0 0 Q.No: 31 - Aptitude Krishna, whose bowling average before his last match was 9.4 runs per wicket, takes five wickets for 19 runs in his last match, thereby decreasing his present average by 0.4 runs per wicket. How many wickets did he take before the last match? 95
B) C) D) Ar	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
B) C) At	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5
B) C) At A) B) C) D)	The average of seven quantities is 7. The average of three of them is 13. find the average of the other four. 5 5.75 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Q.No: 32 - Aptitude

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The angles of a triangle are in the ratio 3:5:7. Find the measurement of greatest angle (in degrees).
A)
B) 096
C) (84
D) 100
Answer: C
Q.No: 33 - Aptitude
A sum of money in 4 years becomes 2016 and in 9 years becomes Rs. 2286. What is the principal sum where the simple rate of interest is to be charged?
A) Rs. 1600
B) Rs. 1750
C) Rs.1800
D) Rs.1850
Answer: C
Q.No : 34 - Aptitude
Find a single discount equivalent to three successive discounts of 10%, 20% and 25%.
Find a single discount equivalent to three successive discounts of 10%, 20% and 25%. A) 44 %
A) 44 % B) 46 % C) 42 %
A) 44 % B) 46 %
A) 44 % B) 46 % C) 42 %
A) 44 % B) 46 % C) 42 % D) 48 %
A) 44 % B) 46 % C) 42 % D) 48 %
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No: 35 - Aptitude Find the 10th term and the sum of the first 10 terms of the series -7,-3,1,5,9,
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No: 35 - Aptitude
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No : 35 - Aptitude Find the 10th term and the sum of the first 10 terms of the series -7,-3,1,5,9, A) 30,110 B) 29,110 C) 30,220
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No: 35 - Aptitude Find the 10th term and the sum of the first 10 terms of the series -7,-3,1,5,9, A) 30,110 B) 29,110
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No : 35 - Aptitude Find the 10th term and the sum of the first 10 terms of the series -7,-3,1,5,9, A) 30,110 B) 29,110 C) 30,220
A) 44 % B) 46 % C) 42 % D) 48 % Answer: B Q.No: 35 - Aptitude Find the 10th term and the sum of the first 10 terms of the series -7,-3,1,5,9, A) 30,110 B) 29,110 C) 30,220 D) 29,220

Q.No: 36 - Aptitude

Anchal and Nikita run on a circular track of length 150 m in opposite direction. If Anchal has a speed of 20 m/s and Nikita has a speed of 10 m/s, then in how much time will they meet for the first time? Also, find the time taken by them to meet at the starting point for the first

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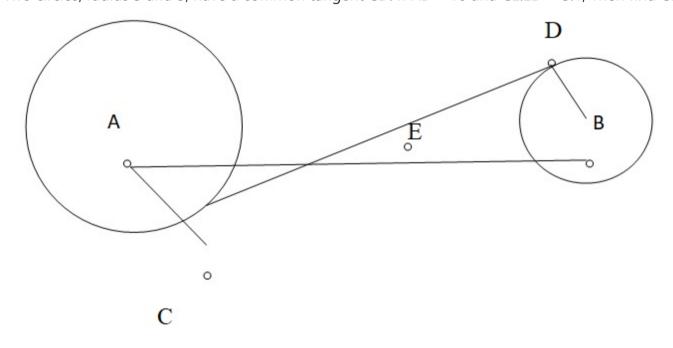
time.

- A) 5 sec, 7 sec
- B) 7 sec, 9 sec
- C) 5 sec, 15 sec
- D) 10 sec, 12 sec

Answer: C

Q.No: 37 - Aptitude

Two circles, radius 5 and 3, have a common tangent CD. If AB = 18 and CE:ED = 3:1, Then find CD.



- A) 15
- B) () 12
- C) (16
- D) 19

Answer: C

Q.No: 38 - Aptitude

How many 5 digit numbers can be formed out of the digits 3,2,7,4 and 0, if no digit is to be used more than once?

- A) () 96
- B) () 24
- C) (720
- D) 120

Answer: A

Q.No: 39 - Aptitude

What is the probability that the birthdays of three different persons will fall in exactly two calendar months?

A) $\bigcirc \frac{13}{49}$

B)		1
-,		4

C)		11
,	$\overline{}$	48

D) $\bigcirc \frac{3}{8}$

Answer: C

Q.No: 40 - Aptitude

If 15 August 1947 has same day in 1944 then which year would have the same day as 15 August in 1944?

A) 1948

B) 1947

C) 1945

D) 1946

Answer: A

Q.No: 41 - Reasoning

Palaeography: Writings:: Ichthyology:?

A) Fishes

B) Whales

C) Oysters

D) Mammals

Answer: A

Q.No: 42 - Reasoning

I:Prune::Hair:11

I. (A)Beard (B)Lawn (C)Wool (D)Shrub
II. (P)Shave (Q)Mow (R)Trim (S)Shear

A) OR

B) AP

C) BQ

D) CS

Answer: A

Q.No: 43 - Reasoning

Mundas: Gaddis: Shompens

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If MOBILITY is coded as 46293927, then EXAMINATION is coded as

A) 45038401854

B) 56149512965

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Q.No: 51 - Reasoning

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How much does Akshay pay as fees per annum for his engineering degree?

Statements:

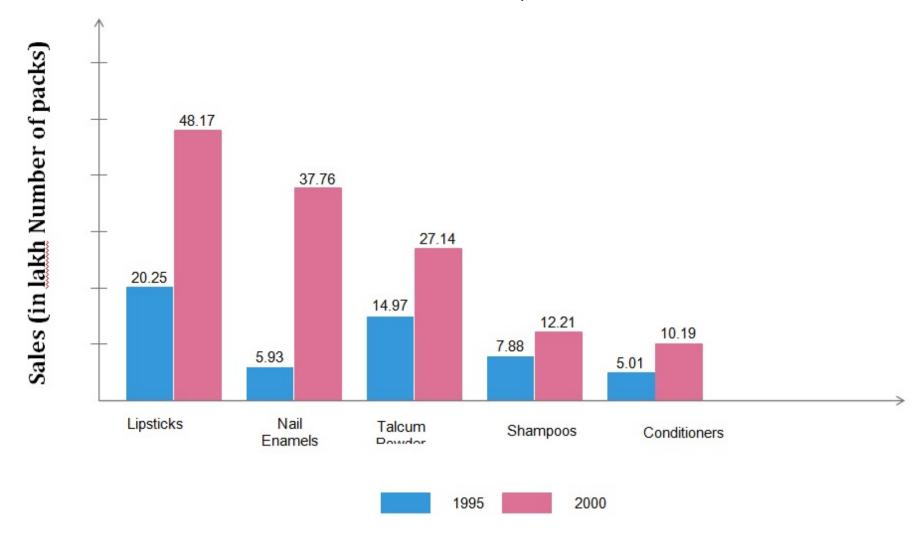
during 1995 and 2000.

pays 30% more per annum than Karan, who is a merit student. b) As he would obtain discount of 8% on the course fee for two academic years, Karan paid a two-year course fee for Rs.75400. Choose from the following:
A) If (a) alone is sufficient to answer the question.
B) If (b) alone is sufficient to answer the question.
C) If (a) and (b) together are necessary to answer the question.
D) If either (a) or (b) is sufficient to answer the question.
Answer: C
Q.No : 52 - Reasoning
Directions for Question: Among the 450 players,195 are prescribed to team A. One hundred and seventy-five are prescribed to team B and 185 are for team C. Fifty-five are subscribed to team A and B. Forty are for team B and C. Forty-five are prescribed for team A and C. Twenty-five for all the three teams. How many players subscribed for exactly two team?
A) () 310
B) 325
C) 335
D) (350
Answer: D
Q.No : 53 - Reasoning
Choose the 'ODD' man out: 312, 725, 422 and 634.
A) 725
B) 312
C) (634
D) (422
Answer: C
Q.No : 54 - Reasoning

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Directions for Question: A cosmetic company provides five different products. The sales of these five products(in lakh number of packs)

during 1995 and 2000 are shown in the following bar graph. Sales(in lakh number of packs) of five different products of cosmetic company



During the period 1995-2000, the minimum rate of increase in sales is in the case of?

- A) Shampoos
- B) Nail enamels
- C) Talcum powders
- D) Lipsticks

Answer: A

Q.No: 55 - Reasoning

In the following question, four groups of letters are given, out of which three are alike in a certain way while one is different. Choose the odd one.

- A) BCYZ
- B) EFVW
- C) (HIUV
- D) JKQR

Answer: C

Q.No: 56 - General Knowledge

The International Date Line passes through

- A) Exactly through 180° longitude
- B) Equator
- C) Approximately 180° east or west meridian
- D) Exactly 0° meridian

Answer: C

Q.No: 57	- General	Knowledge
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Which of the following pairs are wrong?	
A) Iron Ore: Russia	
B) Mica: Japan	
C) Coal: USA	
D) Aluminium: USA	
Answer: B	
Q.No : 58 - General Knowledge	
The New York version of Statue of Liberty was engineered by	
A) A. G. Eiffel	
B) American Sculptor Henry Smith	
C) Sir Edwin Lutyens	
D) None of these	
Answer: A	
Q.No : 59 - General Knowledge	
Assertion (A): The matter in the universe is in a state of rapid expansion.	
Reason (R): The light coming from the galaxies shifts to the red end of the spectrum.	
A) O Beth A and B are two and B is the connect conformation of A	
A) Both A and R are true and R is the correct explanation of A. Both A and R are true and R is not a correct explanation of A.	
B) Both A and R are true and R is not a correct explanation of A. C) A is true R is false.	
D) R is true but A is false.	
Answer: A	
Q.No : 60 - General Knowledge	
Q.No . 00 - deficial knowledge	
Naese is otherwise known as	
A) oyster	
B) amoeba	
C) plankton	
D) mother of pearl	
Answer: D	

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Q.No : 61 - General Knowledge

Transfer of surplus heat from the lower latitudes to higher latitudes is done by	
l. ocean currents	
II. planetary winds	
III. tides	
IV. waves	
A) O I and II	
B) III and IV	
C) I and IV	
D) Ul and III	
Answer: A	
Q.No : 62 - General Knowledge	
Queen Maria Theresa is associated with the	
A) Civil was in England	
B) War of Austrian succession	
C) Seven-year War	
D) Thirty-year War	
Answer: B	
Q.No : 63 - General Knowledge	
Kofi Anan was appointed as the Secretary General of UN in the year	
A) 2000	
B) 1999	
C) 1998	
D) 1997	
Answer: D	
Q.No : 64 - General Knowledge	
Doctrine of Panchsheel was first advocated by	
A) O India and Myanmar	
B) India and USA	
C) India and Indonesia	
D) India and Pakistan	
Answer: A	

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Q.No: 65 - General Knowledge

Q.No: 69 - General Knowledge

Who is the author of the famous play Halla Bol?
A) Uma Shankar
B) Vatsyayan
C) Safdar Hashmi
D) Khushwant Singh
Answer: C
Q.No : 66 - General Knowledge
Which of the following statements is correct?
A) Socrates was a disciple of plato
B) Plato was a disciple of Socrates
C) Plato was a disciple of Aristotle
D) Socrates and Plato were disciples of Aristotle
Answer: B
Q.No : 67 - General Knowledge
The Olympics Motto 'Citius, Altius, Fortius' have been taken from which language?
A) Catin
B) Spanish
C) Greek
D) French
Answer: A
Q.No : 68 - General Knowledge
India's first technicolour filmin the early 1950s was produced by
A) O Jhansi Ki Rani, Sohrab Modi
B) Jhansi Ki Rani, Sir Syed Ahmed
C) Mirza Ghalib, Sohrab Modi
D) Mirza Ghalib, Munshi Premchand
Answer: A

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A polish astronomer, Nicolaus Copernicus is known for
A) his discovery of heavenly bodies
B) his discovery that the sun is the centre of the universe
C) Both (a) and (b) are correct
D) None of these
Answer: C
Q.No : 70 - General Knowledge
Adolf Hitler was
i. The Austria –born German dictator
ii. The German-born Austrian dictator
iii. The founder of Nazi party
iv. Responsible for the outbreak of World War II
A) (i), (iii) and (iv)
B) (ii) and (iii)
C) only (i)
D) (iii) and (iv)
Answer: A
Allswei. A
Q.No : 71 - English
Q.NO. 71 English
Identify the plural of the given word: Pony
identity the planar of the given word. Forty
A) ponys
B) Ponyies
C) Ponecs
D) Ponics
Answer: D
O No : 72 English
Q.No : 72 - English
Choose the correct meaning for the given idiom/ phrase To be born with a silver spoon in one's mouth
10 be both with a silver spoon in one s moduli
A) O To be born in a rich home
B) To be born in a jeweller's home
B) To be born in a jeweller's home C) To be fed milk with a silver spoon
C) To be fed milk with a silver spoon

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Q.No: 73 - English

Change the following sentence into Passive - Voice They can't put you in prison if they haven't tried you.	
A) You can't put in prison, you haven't been tired.	
B) You can't be put in prison if you haven't been tired.	
C) You couldn't be put in prison if you haven't being tired.	
D) You couldn't put in prison, you haven't been tired.	
Answer: B	
Q.No : 74 - English	
Transform the following Compound sentence into complex sentences. Send the money in advance or you will not get the magazine.	
A) you will not got the magazine ,you sent the money in advance.	
B) you will not get magazine unless you sent the money in advance.	
C) oyu will not get the magazine unless you send the money in advance.	
D) you would not getting the magazine unless you send the money in advance.	
Answer: C	
Q.No : 75 - English	
Two men staged a at the bank across the street from us yesterday afternoon.	
A) Ohold up	
B) hold in	
C) hold on	
D) hold away	
Answer: A	
Q.No : 76 - English	
Choose the pair of words which has similar relationship as the given pair: Propensity: Tender	псу
A) Prologue : Epilogue	
B) Master : Slave	
C) Audacity : Impudence	
D) Conduct : Immorality	
Answer: C	

Q.No: 77 - English

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Find the proper sequence of these four sentences.
A) They were generally fed in the afternoon.
B) But father said that it was most interesting to see them being fed.
C) Gopal wanted to see the tigers and the lions first.
D) When we entered the gate, it was difficult to decide which way to go first.
A) ACDB
B) OCBA
C) BCDA
D) CBAD
Answer: B
Q.No : 78 - English
Complete the following by using the correct Question Tags: Everyone wanted a ticket,?
A) O didn't they
B) didn't he C) weren't they
D) haven't they
Answer: A
Allswei. A
Q.No : 79 - English
Change the contence into indirect parration: 'Sumit said 'Eather I want to go abroad after I finish my studies here!'
Change the sentence into indirect narration: 'Sumit said,'Father, I want to go abroad after I finish my studies here'.'
A) Sumit asked his father that he want to go abroad after he finishes his studies here.
B) Sumit told his father he wants to go abroad after he finished his studies here.
C) Sumit told his father that he wanted to go abroad after he finished his studies here.
D) Sumit told to his father, he wanted to going abroad after he finishing his studies here.
Answer: C
Q.No : 80 - English
Consider the following statement and assumptions
Statement : The improvement in the quality of T.V. programmes will lead to increase in the sales of T.V.
Assumptions: I. T.V. is a good entertainment medium.
II. The quality of T.V. programmes has improved recently.
Now select which of the assumptions is implicit in the statement

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A) \bigcirc If only assumption I is implicit

A) A

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Answer: **B**

Q.No: 85 - English

Choose the appropriate word to fill in the blanks. Aerial photography has been... tool ever since the discovery that pattern of light and dark green in the first growth of grain often.... earthworks and roads buried beneath the fields.

A) archaeological reflect
B) astronomical Reveal
C) agricultural Sense
D) architechtural Determine

Answer: A

SaveAll

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