Madhya Pradesh



Questions & Solutions

for

NTSE (Stage-I) 2019-20

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions.

- 1. Total number of questions are 200 (100 Q. MAT & 100 Q. SAT) for this paper. All questions carry one mark each.
- 2. All questions are compulsory.
- For each question there are four options given in question paper. Check for the correct answer and bubble correct option from four circles given in answer sheet by Black/Blue pen. Please do not write any answers on question papers.
- 4. Start answering from first question one after the other till last question.
- 5. If you do not know the answer of any question, do not spend much time on it and pass on to the next one. Time permitting you can come back to the questions which you have left in the first instance and try them again.
- 6. Utilize the allotted time for solving the questions in best possible way. The rough work is to be done in the box given under each page.



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MAT:- PART-I: MENTAL ABILITY TEST

Directions (Q.1 to Q.10) : in series shown by question	There is a missing number n mark (?)
Choose the correct number given.	r out of the four alternatives
1. 10, 100, 200, 310, ?	
(A) 400	(B) 410
(C) 420	(D) 430
Answer (D)	
Sol. +90 +100 +110 +1	20
10, 100, 200, 310,	?
310 + 120 = 430	
2. 6, 12, 21, ?, 48	
(A) 33	(B) 38
(C) 40	(D) 45
Answer (A)	
Sol. $+6 +9 +12 +15$ 6, 12, 21, ?, 48 21 + 12 = 33	guru.i
3. 3, 7, 15, ?, 63, 127	
(A) 35	(B) 31
(C) 30	(D) 33
Answer (B)	
	2 +64 63, 127
15 + 16 = 31	





4. 196, 169, 144, 121, ? (A) 100 (B) 110 (C) 64 (D) 81 Answer (A) **Sol.** ^{196, 169, 144, 121, ?} $\mathbf{14}^2$, $\mathbf{13}^2$, $\mathbf{12}^2$, $\mathbf{11}^2$, $\mathbf{10}^2$ = 100 5. 25, 49, 81, ?, 169, 225 (A) 100 (B) 121 (C) 144 (D) 125 Answer (B) Sol. 25, 49, 81, ?, 169, 225 $\begin{array}{c} \downarrow \\ 5^{2}, \\ 7^{2}, \\ 9^{2}, \\ 11^{2}, \\ 13^{2}, \\ 15^{2} \end{array}$ = 121 6. 325, 259, 204, 160, ?, 105, 94 (A) 120 (B) 125 (C) 127 (D) 130 Answer (C) **Sol.** 325, 259, 204, 160, ?, 105, 94 -66 -55 -44 -33 -22 -11 = 127 7. 165, 195, 255, 285, 345, ? (A) 375 (B) 390 (C) 420 (D) 435 Answer (A) Sol. +30 +60 +30 +60 +30 165, 195, 255, 285, 345, ? 345 + 30 = 375

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8. 1, 3, 4, 8, 15, 27, ? (A) 37 (B) 44 (D) 55 (C) 50 Answer (C) Sol. 1 + 3 + 4 = 8 8 + 15 + 27 = 50 9. 6, 11, 21, 36, 56, ? (A) 42 (B) 51 (C) 81 (D) 91 Answer (C) **Sol.** +5 +10 +15 +20 +25 6, 11, 21, 36, 56, ? 56 + 25 = 81 10. 3, 15, ?, 63, 99, 143 (A) 27 (B) 35 (C) 45 (D) 56 Answer (B) 15, ?, 63, 99, 143 **Sol.** ^{3,} +12 +20 +28 +36 +44 8 8 8 8 15 + 20 = 3511. If 'ROHIT' is coded as 'SPIJU', how will 'MOHIT' be coded? (A) NPIJU (B) LNGHS (C) ZATIU (D) None of the above Answer (A) Sol. $R \xrightarrow{+1} S$ $0 \xrightarrow{+1} P$ Mohit → NPIJU $H \xrightarrow{+1} I$ $I \xrightarrow{+1} J$ $T \xrightarrow{+1} U$ Unburden Govt. of India the parents of your provides you scholarship till Post Graduation studies Study Expenses LARSH after your crack NTSE exam OLARSH

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12. If 'MEAT' is coded as '135120', how will 'TIME' be coded?

(A) 209135	(B) 211395	

(C) 26245 (D) None of the above

Answer (A)

Sol. M \rightarrow 13	$T \rightarrow 20$
$E \rightarrow 5$	$I \rightarrow 9$
$A \rightarrow 1$	$M \rightarrow 13$
$T \rightarrow 20$	$F \rightarrow 5$

 In a certain code, 'ROAD' is written as 'URDG'. How is 'SWAN' written in that code?

 $S \xrightarrow{+3} V$

(A) VXDQ (B	B) VZDQ
-------------	---------

(C) VZCP (D) UXDQ

Answer (B)

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- $O \xrightarrow{+3} R \qquad W \xrightarrow{+3} Z$ $A \xrightarrow{+3} D \qquad A \xrightarrow{+3} D$
- $D \xrightarrow{+3} G \qquad N \xrightarrow{+3} Q$
- 14. If each letter in the English alphabet is assigned odd Numerical value beginning A = 1, B = 3, C = 5 and so on. What will be the value of the letters of word INDIAN?

(A) 86	(B) 88
--------	--------

(C) 89 (D) 96

Answer (D)

Sol. INDIAN = 96





15.	In a certain	language 'LUTE' is written as
	'MUTE' and	'FATE' is written as 'GATE',
	then how will	'BLUE' be written?
	(A) CLUE	(B) GLUE

(C) FLUE	(D) SLUE

Answer (A)

Sol. L— ⁺¹ →M	$B \xrightarrow{+1} C$
U—→U	L→L
$T \longrightarrow T$	U—→U
E→E	E→E

Directions (Q.16 to Q.20) : Of the four alternatives,

find the odd one out.				
16.	(A)	Fast – Slow	(B) Bright – Dark	
	(C)	Day – Night	(D) Valley - Depth	
Ans	Answer (D)			
17.	(A)	Zebra	(B) Lion	
	(C)	Tiger	(D) Horse	
Answer (D)				
18.	(A)	January	(B) May	

(C) November (D) July

Answer (C)

- **Sol.** November (It has 30 days)
- 19. (A) Radish
 - (C) Spinach

(B) Carrot(D) Potatoes

(D) 213

- Answer (C)
- 20. (A) 333 (B) 153
- (C) 783

Answer (D)

- Sol. 213 (All divisible by 9 Except 213)
- 21. If 'cook' is called 'butler', 'butler' is 'manager', manager' is 'teacher', 'teacher' is 'clerk' & 'clerk' is 'principal', who will teach in a class?
 - (A) Clerk (B) Cook
 - (C) Butler (D) Manager
- Answer (A)





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- 22. If 'Black' means 'Pink', 'Pink' means 'Blue', 'Blue' means 'White', 'White' means 'Yellow', then what is the colour of clear sky?
 - (A) Brown (B) Pink
 - (C) Red (D) Blue

Answer (B)

Sol. Answer will be white, but not given in options either (B) OR no option.

Directions (Q.23 to Q.35) : One of the four Alternatives given under the each question satisfies the same relation as is found between two patterns to the left of the sign : : given in the question. Find the correct alternative.

- 23. Virat Kohli : Cricket : : Mary Kom : ?
 - (A) Boxing (B) Badminton
 - (C) Cricket (D) Tennis

Answer (A)

- 24. 81:3::16:?
 - (A) 2 (B) 4
 - (C) 9 (D) 12

Answer (A)

- 25. Aeroplane : Hanger : : Car : ?
 - (A) Port
 - (C) Depot
- (B) Garage (D) Harbour
- (C) Depot

Answer (B)

- 26. Bees : Swarm : : Cattle : ?
 - (A) Mob (B) Flock
 - (C) Herd (D) Shoal

Answer (C)

27. Rupee : India : : Yen : ?

(A) Turkey(C) Japan

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- (B) Bangladesh (D) Pakistan
- Answer (C)



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28.	Air : Atmosphere : : Wa	ater : ?
	(A) Hydrosphere	(B) Ecosphere
	(C) Biosphere	(D) Stratosphere
Ans	swer (A)	
29.	Mumbai : Maharashtra	::Raipur:?
	(A) Gujarat	(B) Kerala
	(C) Chhattisgarh	(D) Jharkhand
Ans	swer (C)	
30.	Ship : Sea : : Camel : '	?
	(A) Forest	(B) Mountain
	(C) Land	(D) Desert
Ans	swer (D)	
31.	Thermometer : Tempe	rature : : Barometer : ?
	(A) Pressure	(B) Humidity
	(C) Electric current	(D) Earthquake intensity
Ans	swer (A)	
32.	Dog : Rabies : : Mosqu	uito : ?
	(A) Sting	(B) Malaria
	(C) Death	(D) Plague
Ans	swer (B)	
33.	Tuberculosis : Lungs :	
	(A) Ear	(B) Throat
_	(C) Eyes	(D) Skin
	swer (C)	
34.	AB : ZY : : CD : ?	
	(A) XW (C) XY	(B) WV (D) WX
Δne	swer (A)	
	. XW (Corresponding le	tter from last)
	Cruel : Kind : : Lazy : ?	
	(A) Alert	(B) Sharp
	(C) Interest	(D) Shrewd
Ans	swer (A)	
Sol	. Alert (opposite)	
		Vinjagmice



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Directions (Q.36 to Q.39) : Four types of figures (a), (b), (c) & (d) are given. One of the figure type represents the relation of 3 types of things. Select the right answer.

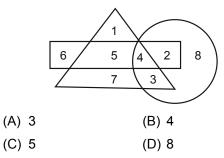
$\bigcirc \circ \circ ($	$\mathcal{D}^{\mathcal{O}}$
(a) (b)	(c) (d)
36. Bus; Car; Vehicle	
(A) a	(B) b
(C) c	(D) d
Answer (B)	
37. Week, Day, Year	
(A) a	(B) b
(C) c	(D) d
Answer (A)	
38. Thief, Criminal, Judge	
(A) a	(B) b
(C) c	(D) d
Answer (C)	
39. Professor, Researche	er, Scientist
(A) a	(B) b
(C) c	(D) d

Answer (D)





40. Which number is in all Geometrical figures?



Answer (B)

- 41. Rohit travels 7 km to the North. He then turns right and walks 4 km. He again turns right and moves 4 km forward. How many km is he from the starting point?
 - (A) 6 km (B) 5 km
 - (C) 9 km (D) 15 km

Answer (B)

- 42. Pointing to a man, a woman said, "He is the son of only son of my grandfather". How is that man related to woman?
 - (A) Uncle (B) Brother
 - (C) Cousin (D) None of these

Answer (B)

- 43. What is the product of all the Numbers in the Dial
 - of a Telephone?
 - (A) 158480 (B) 0
 - (C) 159450 (D) 159480

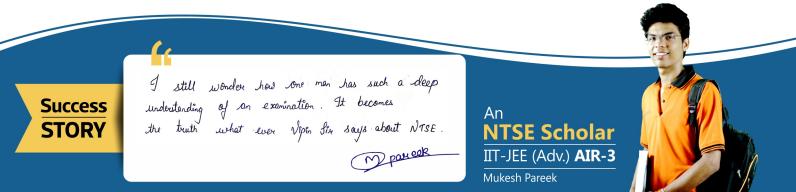
Answer (B)

- 44. If '÷' means '×', '×' means '+', '+' means '−' and '−' means '÷' find the value of 16 × 3 + 5 − 2 ÷ 4.
 - (A) 9 (B) 10
 - (C) 19 (D) None of these

Answer (A)

Sol. 16 × 3 + 5 – 2 ÷ 4

 $16 + 3 - 5 \div 2 \times 4 = 9$





- 45. If '<' means '-', '>' means '+' and '\$' means '+', then what would be the value of 27 > 81 \$ 9 < 6?
 - (A) 6 (B) 33
 - (C) 36 (D) 30

Answer (D)

Sol. 24 > 81 \$ 9 < 9

27 + 81 ÷ 9 – 9 = 30

- 46. If the seven (7th) day of the month is Tuesday, what day will it be on the 19th day of the month?
 - (A) Sunday (B) Monday
 - (C) Wednesday (D) Friday

Answer (A)

47. Rohan ranks 7th from the top and 26th from the bottom in a class. How many students are there in the class?

(D) 34

- (A) 31 (B) 32
- (C) 33

Answer (B)

48. In the following Number series, how many alphabets are written twice, consecutively?

GOSSRGMLGTOPQQRPPSOG

- (A) 3 (B) 5
- (C) 1 (D) 2

Answer (A)

- 49. You go North, turn right, then turn right again and then go to the left. In which direction you are now?
 - (A) North (B) South
 - (C) East (D) West

Answer (C)

- 50. In the following words. Which word will come third in the English dictionary?
 - (A) Fallible(C) False
- (B) Faithfully (D) Follow
- Answer (C)

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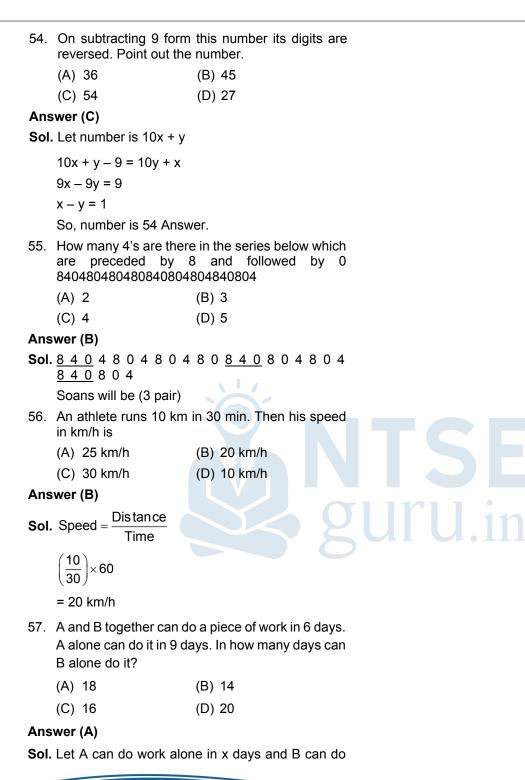
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51. Which of the following English dictionary?	g words will cone third in
(A) Magnify	(B) Magnetic
(C) Magical	(D) Martial
Answer (A)	
Sol. I \rightarrow Magical	
II \rightarrow Magnetic	
III \rightarrow Magnify	
$IV \rightarrow Martial$	
52. 66 × 83 = 8636	
56 × 73 = 7635	
46 × 63 = 6634	
36 × 53 = ?	
(A) 5633	(B) 5643
(C) 5655	(D) 5663
Answer (A)	
Sol. 66 × 83 = 8636	
56 × 73 = 7635	
$46 \times 63 = 6634$	Ollrll in
36 × 53 = 5633	S Sulu.III
53. If 9 – 3 – 1 = 913, 6 – 5 = ?	5 - 4 = 645, then $8 - 7 - 0$
(A) 708	(B) 780
(C) 807	(D) 804
Answer (C)	
Sol. 9 – 3 – 1 = 913	
6 - 5 - 4 = 645	
8 - 7 - 0 = 807	







Did you know?



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work alone in Y days

So, $\frac{1}{x} + \frac{1}{y} = \frac{1}{6}$ Now x = 9 $\frac{1}{9} + \frac{1}{y} = \frac{1}{6}$ $\frac{1}{y} = \frac{1}{6} - \frac{1}{9} = \frac{1}{18}$ y = 18 Days.

58. It's 3 'O'clock in a wrist watch. If the minute hand points towards North-East direction, then the hour hand will point towards which direction?

(A) South-West	(B) North-West
----------------	----------------

(C) South	(D) South-East
-----------	----------------

```
Answer (D)
```

So and will be (South-East)

Directions (Q.59 to Q.62) : In a certain code '<u>ca na</u> <u>da</u>' means '<u>how are you</u>' '<u>ta na co</u>' means '<u>we are</u> <u>happy</u>'; '<u>ta po da</u>' means '<u>we and you</u>'

59.	What is the code for 'happy'?
-----	-------------------------------

(A) ca (B)	CO
------------	----

(C) po	(D) na
--------	--------

Answer (B)

60. What is the code for 'how'?

(A) ca	(B) ta
(C) po	(D) co

Answer (A)

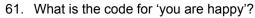


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(A) ca co na (B) ta an co

(C) po ca da (D) da na co

Answer (D)

- 62. 'how you happy' will be coded as?
 - (A) po ca da (B) ca da co
 - (C) na da na (D) co ca po

Answer (B)

Directions (Q.63 & Q.64) : Find the missing numerical
value in following questions.

10 63. 8 12-28 26 30 (A) 26 (B) 25 (C) 24 (D) 38 Answer (C) Sol. Sum of pair-wise number is 36 6 + 30 = 368 + 28 = 36 26 + 10 = 3612 + x = 3636 - 12 = xx = 24 7 64. 3 2 9 5 56 24 5 (A) 5 (B) 4 (C) 3 (D) 2 Answer (A) **Sol.** $(3)^2 - (2)^2 = 5$ $(9)^2 - (5)^2 = 56$ $(7)^2 - (x)^2 = 24$ $x^2 = 25$ x = 5

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- 65. Arrange the following events in the order as they occur to form meaningful sequence
 - 1. Consultation, 2. Illness, 3. Treatment, 4. Recovery

(A) 2, 1, 3, 4	(B) 3, 2, 1, 4
(C) 1 2 3 4	

(C) 1, 2, 3, 4	(D) 3, 1,

Answer (A)

- Sol. 1. Consultation
 - 2. Illness
 - 3. Treatment
 - 4. Recovery

1

```
Illness - Consultation - Treatment - Recovery
```

-32)-4

- 66. In a certain code 'FISH' is written 'EHRG', how will 'JUNGLE' be written in that code?
 - (A) ITNFKD (B) ITMFKD
 - (C) IKMFKD (D) TIMFKD

2

Answer (B)

- Sol. FISH
 - -1|-1|-1|-1|
 - EHRG
 - JUNGLE
 - -1| -1| -1| -1| -1| -1|
 - ITMFKD
- If 'A' denotes '+', 'B' denotes '÷', 'C' denotes '-', 'D' donates '×', then

5 A 1 4 B 2 D 2 C 2 = ?

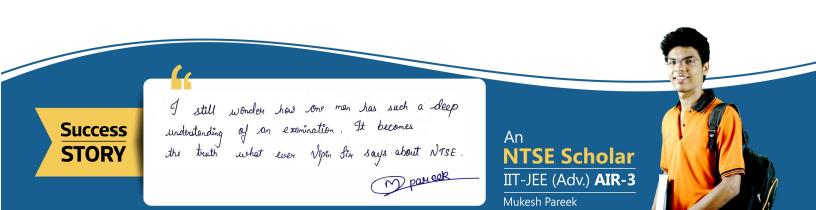


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(A) 20 (B) 17 (D) 16 (C) 19 Answer (B) **Sol.** 5 A 14 B 2 D 2C 2 = ? $5 + 14 \div 2 \times 2 - 2$ $5 + 7 \times 2 - 2$ 5 + 14 - 2= 17 68. If 9*4 = 169, then what is the value of 14 * 1? (A) 144 (B) 169 (C) 125 (D) 225 Answer (D) **Sol.** 9*4 = 19 $(9+4)^2 = 169$ So, 14 * 1 $(14 + 1)^2 = (15)^2 = 225$ 69. Divide ₹ 640 among A, B & C so that A have 30%, B have 45% and C have the rest. How much the C have? (B) 232 (A) 160 (D) 200 (C) 212 r'U.in Answer (A) **Sol.** A will get 30% of 640 = ₹192 B will get 45% of 640 = ₹288 So, C will get amount = 640 - (192 + 288)





70. 'A' is 3 years older than 'B' and 3 years younger to 'C' while 'B' and 'D' are twins. How many years is C older than D? (A) 6 (B) 7 (D) 4 (C) 5 Answer (A) Sol. Let age of B = x year So, age of A = (x + 3)Age of c = (x + 6)Age of D = x year So, difference in age of C and D = 6 years Directions (Q.71 & Q.72) : Arrange the given words as they occur in the dictionary. 71. 1. Inward, 2. Ion, 3. Iodine, 4. Invite, 5. Iodoform (A) 4, 1, 2, 5, 3 (B) 4, 1, 3, 5, 2 (D) 5, 4, 1, 2, 3 (C) 1, 3, 2, 4, 5 Answer (B) Sol. 1. Inward 2. Ion 3. lodine 4. Invite 5. lodoform Invite - Inward - Iodine - Iodoform - Ion 4 1 5 2 3 72. 1. Matter, 2. Meal, 3. Maze, 4. Maximum, 5. Mean (A) 2, 3, 5, 4, 1 (B) 1, 4, 2, 5, 3 (C) 1, 4, 3, 2, 5 (D) 4, 1, 3, 2, 5 Answer (C) Sol. 1. Matter 2. Meal 3. Maze 4. Maximum 5. Mean

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Matter - maximum - maze - meal - mean 1 4 3 2 5

73. In the digits of number 6492758 are written in ascending order, then how many digits will remain unchanged?

(A) One	(B) Two
(C) None	(D) Three

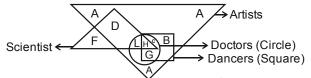
(C) None	(D) Thre
----------	----------

Answer (B)

Sol. 6492758

1 1 2456789

Directions (Q.74 to Q.78) : Study the figure and answer the question given below :



74. Which letter represents the artists who are doctors and dancers only?

(B) D

- (A) A
- (C) G (D) H

Answer (C)

- 75. Which letter represents the Artists who are neither scientists nor doctors?
 - (A) A and B (B) A and L
 - (D) L and H (C) B and G

Answer (A)

76. Which letter represents the Artists who are dancers as well as doctors only?

(A) A and D (B) C and G

(C) C and D (D) G and H

Answer (B)

77. Which letter represents the Artists who are neither doctors nor scientists nor dancers?

(A) A	(B) D
(C) F	(D) G

Answer (A)

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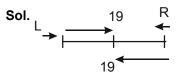
- 78. Which letter represents the scientists only?
 - (A) B (B) D
 - (C) F (D) L

Answer (C)

79. A class of boys stands in a single line. One boy is nineteenth in order from both the ends. How many boys are there in the class?

(A) 27	(B) 37
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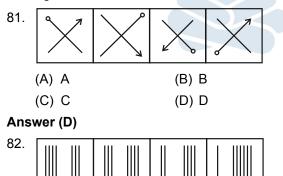
(C) 38 (D) 39



- 19 + 19 = 38 1= 37
- 80. In the following series, how many pairs of successive numbers have difference of 2 each?
 - 64122874215386217141
 - (A) Four (B) Five
 - (C) Six (D) Seven

Answer (A)

Directions (Q.81 to Q.90) : Choose the odd figure out of the given.



			1	1111
(A) A		(B) B	5	
(C) C	(D) D			
Answer (C)				



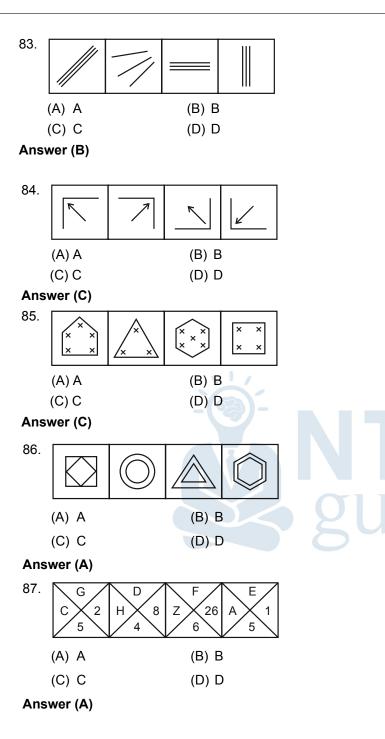


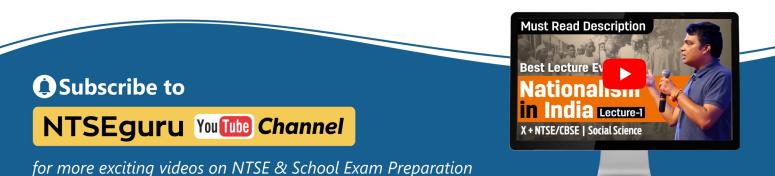
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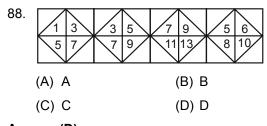




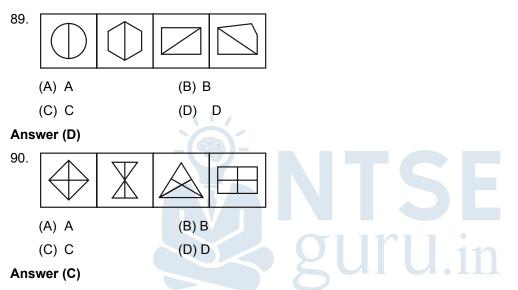
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Answer (D)



Directions (Q.91 to Q.95) : Study the following information and answer the given questions :

- (i) B and E are good in Dramatics and Computer Science.
- (ii) A and B are good in Computer Science and Physics.
- (iii) A, D and C are good in Physics and History.
- (iv) C and A are good in Physics and Mathematics.
- (v) D and E are good in History and Dramatics.





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Solutions for Q.91 to Q.95 :

Dramatic	Computer Science	Physics	Maths	History
В	В	A	А	А
E	E	В	С	D
D	А	D		С
		С		E

- 91. Who is good in Physics, History and Dramatics?
 - (A) A (B) B
 - (C) D (D) E

Answer (C)

92. Who is good in Physics, History and Mathematics, but not in computer Science?

(D) D

- (A) A (B) B
- (C) C

Answer (C)

- 93. Who is good in Computer Science, History and Dramatics?
 - (A) A (B) B
 - (C) C (D) E

Answer (D)

- 94. Who is good in History, Physics, Computer Science and Mathematics?
 - (A) A (B) B
 - (C) C (D) D

Answer (A)

- 95. Who is good in Physics, Dramatics and Computer Science?
 - (A) A (B) B
 - (C) D (D) E

Answer (B)

Directions (Q.96 to Q.98) : Find the missing number from among the given alternatives :

&



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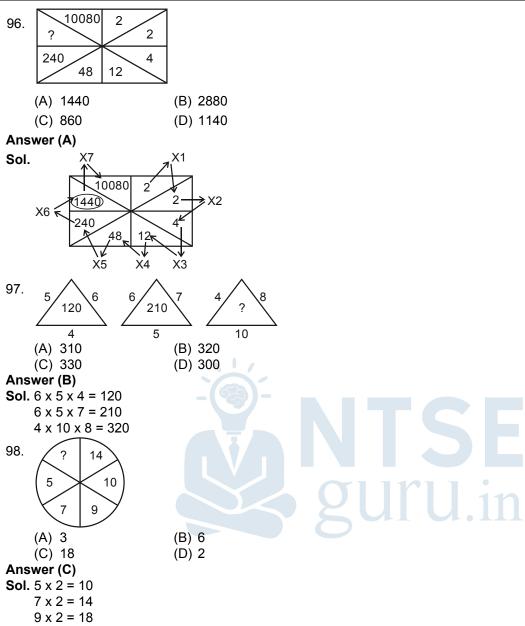






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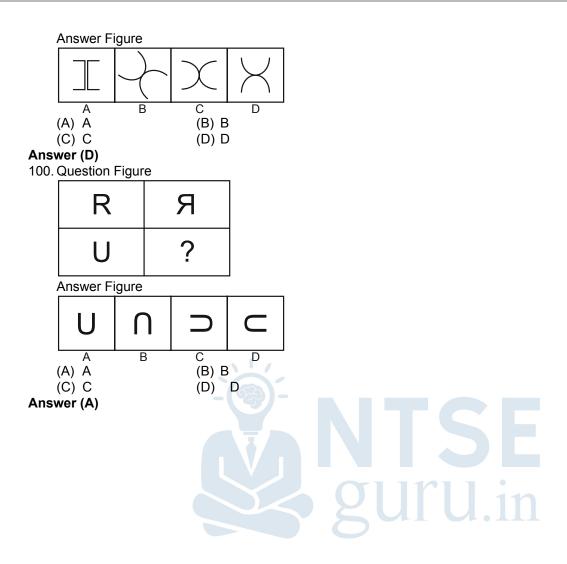
Directions (Q.99 & Q.100) : In each of the following questions; find out which of the answer figure complete the matrix. 99. Question Figure

Question	Figure
\bigcirc	?











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SAT:- PART-II: SCHOLASTIC APTITUDE TEST

- 1. The value of acceleration due to gravity is :
 - (A) Least on equator (B) Least on poles
 - (C) Same on equator & pole (D) Increases from pole to equator

Answer (A)

Sol.
$$g = \frac{GM}{R^2}$$

$$R_{e} > R_{p}$$

So, $g_{\rm e} < g_{\rm p}$

2. The numerical ratio of displacement to distance covered by a moving object is :

(A) Always < 1 (B) Always = 1

(C) Always > 1 (D) = or < 1

Answer (D)

Sol. Distance \geq Displacement

 $1 \ge \frac{\text{Displacement}}{\text{Distance}}$

- 3. According to third law of motion, action and reaction:
 - (A) Always act on the same body
 - (B) Always act on different bodies in opposite direction
 - (C) Have same magnitude and direction
 - (D) Act on any one of the body at normal to each other

Answer (B)

Sol. According to definition of law.

4. The S.I. unit of retardation is

(A) ms ⁻¹	(B) ms ⁻²
(C) ms ²	(D) m

Answer (B)

Sol. Unit = $\frac{\text{Enit of velocity}}{\text{Unit of time}} = \frac{\text{m/s}}{\text{s}} = \text{m/s}^2$

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- 5. _____ is located behind a convex mirror :
 - (A) The focal point (B) A ray
 - (C) A real image (D) The object

Answer (A)

- When white light passes through the prism colour which deviates the least is :
 - (A) Red (B) Blue
 - (C) Violet (D) Green

Answer (A)

Sol. $\mu \propto \frac{1}{\lambda}$ and $\delta \propto \mu$

- Two charged bodies having equal potential are connected through a conducting wire. In this case
 - (A) Current will flow
 - (B) Not flow
 - (C) Can't say
 - (D) Current will flow if a resistance is connected

Answer (B)

Sol. Current flows due to potential difference.

- Two parallel wires carrying current in opposite directions
 - (A) Attract each other (B) Repel each other
 - (C) Do not affect each other
 - (D) Get moved to perpendicular to each other

Answer (B)

Sol. Property of magnetic force.

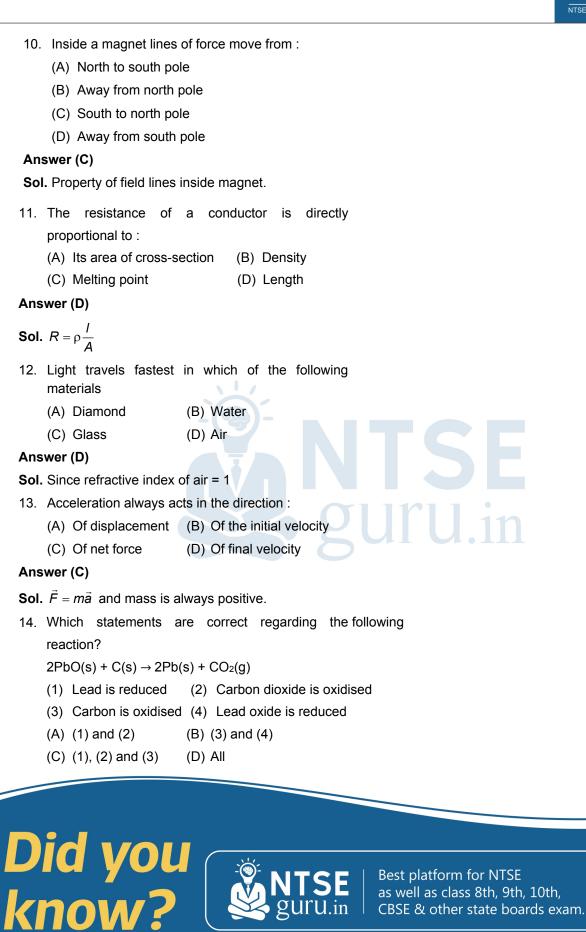
- 9. The magnetic field inside a solenoid is :
 - (A) Non-uniform (B) Variable
 - (C) Same at all points except at its ends
 - (D) Zero

Answer (C)

Sol. $B = B = \mu_0 nl$ except ends.

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Answer (B)

- Sol. PbO is reduced and carbon is oxidised
- 15. What will happen on putting dilute HCl on iron powder?
 - (A) Hydrogen gas and FeCl₂ will form
 - (B) Chlorine gas and FeCl₂ will form
 - (C) FeCl₂ and H₂O will form
 - (D) Will be no reaction

Answer (A)

Sol. Fe + HCl \rightarrow FeCl₂ + H₂(g)

Hydrogen gas and FeCl₂ will form

16. The number of covalent bonds in ethane are :

(A) 6	(B) 7
(C) 8	(D) 9

Answer (B)

Sol. C₂H₆

There are 7 covalent bonds in ethane

17. If electronic configuration of an atom is 2, 8, 7, then atomic number of atom will be :

(D) 18

- (A) 15 (B) 16
- (C) 17
- Answer (C)

Sol. K L M

- 2, 8, 7 = 17
- Atomic number CI = 17
- 18. Which functional group is present in Butanone?

$$\begin{array}{c} O \\ (A) \\ -C - OH \end{array} \qquad \begin{array}{c} O \\ (B) \\ -C - H \end{array}$$

(C)
$$\sum_{c=0}^{c=0}$$
 (D) $-C \equiv N$

Answer (C)

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Sol. Butanone ketone functional group is present

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- 19. Which will have electronic configuration 2, 8,2?
 - (A) Na (B) Mg

(C) Al (D) Si

Answer (B)

- **Sol.** Mg = $\frac{K, L, M}{2, 8, 2}$ atomic number of Mg is 12
- 20. Which element have two shells and both these shells are fulfilled with electrons?

(A) S	(B) Ne
(C) N	(D) He

Answer (B)

Sol. 10Ne = 2, 8

Both K and L shells are completely filled

- 21. $CH_4 + CI_2 \xrightarrow{sunlight} CH_3CI + HCI$. This reaction is
 - (A) Substitution (B) Oxidation
 - (C) Combination (D) Reduction

Answer (A)

Sol. It is a type of substitute reaction hydrogen is being substituted by CI.

22.
$$R \xrightarrow{Catalyst} R - C - C - R \xrightarrow{Catalyst}_{H_2} R - C - C - R$$

The given reaction is

- (A) Oxidation
- (C) Substitution

(D) Decomposition

(B) Reduction

Answer (B)

- Sol. Addition of hydrogen is known as Reduction.
- 23. The structural formula of cyclopentane is :



Answer (C)

Sol. Cyclopentane.





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O ∥ C−H is 24. The name of H-

- (A) Acetone (B) Acetic Acid
- (C) Ethanol (D) Formaldehyde

Answer (D)

Sol. Formaldehyde (functional group is Aldehyde)

- 25. Which among the following is/are saturated compound?
 - (A) CH₄ (B) C₃H₈
 - (C) C₅H₁₂ (D) All the above

Answer (D)

Sol. All are saturated hydrocarbon (Alkane)

- 26. XCl₂ is a solid and high melting point compound. X will be
 - (A) Na (B) Mg
 - (C) AI (D) Si

Answer (B)

Sol. In XCl₂ valency of X is 2

Mg = 2, 8, 2

- 27. Which of the following is not a divisional stage?
 - (A) Telophase (B) Prophase
 - (C) Metaphase (D) Interphase

Answer (D)

Sol. Interphase is the resting stage during cell division. The cell prepares itself for division during interphase.

It divides during M-Phase, which can be divided into prophase, metaphase, anaphase and telophase.







- 28. Cell Organelles are embedded in
 - (A) Cytoplasmic membrane
 - (B) Mucin
 - (C) Protoplasm
 - (D) Cytoplasm

Answer (D)

- Sol. Cytoplasm refers to fluid that fills the cell, it includes cytosol and cell organelles.
- 29. Growth rings are formed by the activity of
 - (A) Xylem
 - (B) Phloem
 - (C) Both Xylem and Phloem
 - (D) Cambium

Answer (D)

- Sol. Due to differential seasonal activity of cambium, autumn wood and spring wood are formed. Autumn wood & spring wood of a year collectively constitute annual (growth) rings.
- 30. Reserve Food Product of most of the algae is
 - (B) Fat (A) Glycogen
 - (C) Cellulose
 - (D) Starch

Answer (D)

- Sol. Reserve food in algae is starch (Plant storage carbohydrate). Different types of starch are found in different algae.
- 31. Largest Ecosystem of the world are
 - (A) Forest (B) Grassland
 - (C) Great lakes (D) Oceans

Answer (D)

- Sol. Oceans are world's largest ecosystem.
- 32. The Xylem in plants are responsible for
 - (A) Transport of water
 - (B) Transport of oxygen
 - (C) Transport of food

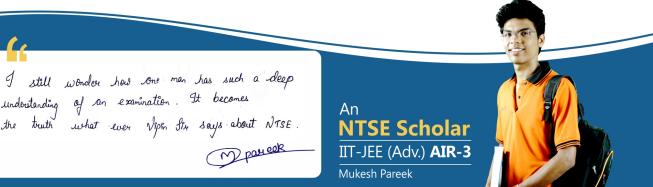
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- (D) Transport of Amino acid
- Answer (A)

Success

STORY





- **Sol.** Xylem is responsible for conduction of water and minerals in plants.
- 33. Budding type of Reproduction is found in
 - (A) Peepal (B) Bryophyllum
 - (C) Rose (D) Sugarcane

Answer (B)

- **Sol.** In Bryophyllum, adventitious buds are developed in margins of the leaves. When the leaf falls on moist soil, these buds develop into plantlets, which then separates into individual plants.
- 34. Which of the following acid is also a vitamin?
 - (A) Ascorbic acid (B) Formic acid
 - (C) Malic acid (D) Palmitic acid

Answer (A)

- Sol. Chemically, vitamin C is ascorbic acid.
- 35. Which of the following plant tip has Quiescent centre?

(D) Sepal

- (A) Stem (B) Root
- (C) Leaf
- Answer (B)
- **Sol.** Quiescent centre is a very small group of nondividing living cells, found between root cap and meristem. It has low DNA, RNA & proteins. It provides new cells to meristem in case of damage only.
- 36. Which of the following is a plant Hormone?
 - (A) Insulin (B) Thyroxin
 - (C) Cytokinin (D) Oestrogen

Answer (C)

- **Sol.** Cytokinin is a plant hormone responsible for cell division (predominantly) in plants.
- 37. Ribosomes are granules formed of
 - (A) Only m-RNA (B) Only Proteins
 - (C) r RNA + Proteins (D) Only DNA

Answer (C)

Sol. Ribosomes are made up of r-RNA and ribosomal proteins.

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38.	The Anther contains	
	(A) Sepals	(B) Ovules
	(C) Pistil	(D) Pollen-grains
Ans	swer (D)	
	Anther produces poller	n grains.
		tial for photorespiration is
	(A) Ribosome	(B) Dictyosomes
	(C) Peroxisomes	(D) Glyoxisome
Ans	swer (C)	
Sol		ccurs in chloroplasts, ochondria in order of their
40.	Pollination in Maize he	ld by
	(A) Insect	(B) Water
	(C) Air	(D) Animal
Ans	swer (C)	
Sol	. Maize is a wind/air pol	linated plant.
41.	Indus civilization? (A) Mohenjo daro	g cities in not related to the (B) Kalibangan
۸ne	(C) Lothal swer (D)	(D) Patliputra
	. Fact	ollrll in
		nor General during the 1857
٦٢.	the first war of indeper	
	(A) Lord Dalhousie	(B) Lord Ripon
	(C) Lord Curzon	(D) Lord Canning
Ans	swer (D)	
Sol	. Fact	
43.	Who was the founder	of Satya Shodhak Samaj?
	(A) Ram Mohan Roy	(B) Dayanand Saraswati
	(C) Jyotiba Phule	(D) Swami Vivekanand
Ans	swer (C)	
Sol	. Fact	

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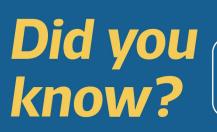


(A) Fa-Xian



(B) Arena (C) XuanZang/Hiuen Tsang (D) Megasthenes Answer (D) Sol. Fact 45. Who among the following is called the "Bhoja of Andhra"? (A) Krishnadeva Rai (B) Veer Narsimha (C) Immadi Narasimha (D) Rajendra Chola Answer (A) Sol. Fact 46. Kandariya Mahadev Temple is located at (A) Khajuraho (B) Badami (C) Ajanta (D) Ellora Answer (A) Sol. Fact 47. Where is the ancient coastal settlement Arikamedu Located? (B) Chennai (A) Visakhapatnam (D) Port Blair (C) Puducherry l'U.1n Answer (C) Sol. Fact 48. Who wrote "Humayun nama"? (A) Gulbadan Begam (B) Abul Fazl (C) Badayuni (D) Barni Answer (A) Sol. Fact 49. Who wrote "Kiratarjuniya"? (A) Shudraka (B) Bharvi (C) Kalhan (D) Bilhan Answer (B) Sol. Fact

44. Which of the following foreign travellers came to India during Chandra Gupta Maurya's Period?





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- 50. Who founded Forward Bloc?
 - (A) Subhas Chandra Bose
 - (B) Jawahar Lal Nehru
 - (C) Gandhi Ji
 - (D) Mohammad Ali Jinnah

Answer (A)

Sol. Fact

51. Lothal the port city of Indus Valley civilization is located

(D) Jhansi

(D) Shudrak

- (A) Gujrat (B) Rajasthan
- (C) Punjab (D) Haryana

Answer (A)

- Sol. Fact
- 52. Rani Durgawati was the queen of _____
 - (A) Garha (B) Riwa
 - (C) Jaipur
- Answer (A)

Sol. Fact

- 53. Who established "Khalsa" in 1699 A.D.?
 - (A) Guru Gobind Singh
 - (B) Guru Angad
 - (C) Guru Arjan Dev
 - (D) Guru Teg Bahadur

Answer (A)

Sol. Fact

- 54. Who was the author of Prayag Prashasti?
 - (A) Kalidas (B) Harishena
 - (C) Varahmihir

Answer (B)

Sol. Fact



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- 55. Ashvaghosha writer of Buddhacarita belonged to the court of which Ruler?
 - (A) Kanishka
 - (B) Ashoka
 - (C) Chandragupta Maurya
 - (D) Bimbisara

Answer (A)

Sol. Fact

- 56. The largest area under mangroves is in which of the following state/union territory?
 - (A) Andaman and Nicobar
 - (B) Andhra Pradesh
 - (C) West Bengal
 - (D) Gujarat

Answer (C)

Sol. Fact

- 57. River in its last stage forms-
 - (A) Water Fall (B) Flood Plains
 - (C) Delta or Estuary (D) OX-Bow lake

Answer (C)

Sol. Fact

- 58. Sundari trees are found in
 - (A) Tropical Forest
 - (B) Himalayan Forest
 - (C) Mangrove Forest
 - (D) Tropical deciduous forest

Answer (C)

- Sol. Fact
- 59. Which scale is a Representative Fraction (R.F.)?
 - (A) One inch is equal to ten miles
 - (B) 1 cm = 1 km
 - (C) One cm for ten km
 - (D) 1:1,00,000

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Answer (D)

Sol. Fact

- 60. Jim Corbett National Park is located in
 - (A) Himachal Pradesh (B) Uttarakhand
 - (C) Jammu & Kashmir (D) Assam

Answer (B)

Sol. Fact

- 61. Yellow Revolution is related to
 - (A) Fruit Production
 - (B) Sheep rearing
 - (C) Fish Production
 - (D) Edible Oil & Oil Seeds

Answer (D)

Sol. Fact

- 62. Which of the following Indian States is also known as a 'Land of Red river and Blue Hills'?
 - (A) Uttarakhand (B) Assam
 - (C) Meghalaya
- (D) Arunachal Pradesh

Answer (B)

- Sol. Fact
- 63. Which of the following is not a Metallic Mineral?
 - (A) Iron (B) Manganese
 - (C) Gold (D) Coal

Answer (D)

Sol. Fact



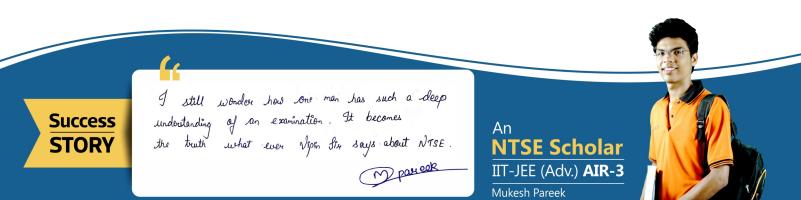
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64.	The Clouded Leopard which of the following S	National Park is Situated in States?
	(A) Tripura	(B) Uttar Pradesh
	(C) Assam	(D) Mizoram
Ans	wer (A)	
Sol.	Fact	
65.	Silent Valley is located	in
	(A) Tamil Nadu	(B) Kerala
	(C) Karnataka	(D) Himachal Pradesh
Ans	swer (B)	
Sol	Fact	
66.	River Brahmaputra in T	Γibet (China) is called
	(A) Meghana	(B) Tsangpo
	(C) Padma	(D) Debanga
Ans	wer (B)	
Sol	Fact	
67.	The largest Iron and St	teel in Plants in India is
	(A) Tata Iron and Stee	el Company
	(B) Indian Iron and Ste	eel Company
	(C) Hindustan Steel Lt	d.
	(D) Visvesvaraya iron	and Steel Company
Ans	swer (A)	
Sol	Fact	
68.	Which of the following Lanka?	g Separates India and Sri
	(A) The Gulf of Camba	ау
	(B) The Rann of Kutch	1
	(C) The Bay of Bengal	
	(D) The Gulf of Manna	r
Ans	wer (D)	
Sol.	Fact	



11



- 69. The best Quality of coal.
 - (A) Bituminous (B) Anthracite
 - (C) Lignite
 - (D) Peat

Answer (B)

Sol. Fact

70. Where is Kalpakkam?

- (A) Uttar Pradesh (B) Maharashtra
- (C) Gujarat (D) Tamil Nadu

Answer (D)

Sol. Fact

- 71. The word 'Democracy' is focused by "Demos" and "Kratia" which are (both) _____ words
 - (A) Greek (B) Latin
 - (C) Spanish (D) English

Answer (A)

Sol. Fact

- 72. Which Article of the constitution states about the working of an election in India?
 - (A) Article 19 (B) Article 300
 - (C) Article 324 (D) Article 368

Answer (C)

- Sol. Fact
- 73. 'Fundamental Rights' can be suspended
 - (A) By Judiciary
 - (B) By Parliament
 - (C) In Emergency Period
 - (D) None of the above

Answer (C)

Sol. Fact

- 74. Who is responsible for the registration of the voter?
 - (A) Governor (B) Voters
 - (C) Political Parties (D) Election Commission

Answer (D)

Sol. Fact

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- 75. Indian constitution is
 - (A) Rigid (B) Flexible
 - (C) Rigid and flexible (D) None of the above

Answer (C)

- Sol. Fact
- 76. What is marginal productivity of labour in disguised employment?
 - (A) Zero (B) Minimum
 - (C) One (D) Maximum

Answer (A)

Sol. Fact

- 77. What the industrial unit is called which is run with the help of family members?
 - (A) Village industry (B) Agricultural industry
 - (C) Cottage industry (D) Small industry

Answer (C)

Sol. Fact

- 78. Where the first mobile bank was established?
 - (A) In Ahmednagar district of Maharashtra
 - (B) In Khargone district of Madhya Pradesh

Uru.in

- (C) In Kota district of Rajasthan
- (D) In Mysore district of Karnataka

Answer (B)

Sol. Fact

- 79. When Prime Minister Rozgar Yojana started?
 - (A) 15th august 1947 (B) 26th January 1950
 - (C) 2^{nd} October 1993 (D) 15^{th} august 2015

Answer (C)

Sol. Fact

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- 80. Which of the following sector contributes maximum in gross domestic product of India?
 - (A) Primary sector (B) Secondary sector
 - (C) Tertiary sector (D) Foreign sector

Answer (C)

Sol. Fact

 If the sum of 14 terms of an A.P. is 1050 and its first term is 10, the 20th term will be

(A) [·]	140	(B)	160
(C)	180	(D)	200

Answer (D)

Sol.
$$S_{14} = 1050, a = 10.$$
 $S_n = \frac{n}{2}[2a + (n-1)d]$
 $1050 = \frac{14}{2}[2 \times 10 + 13 \times d]$
 $150 = 20 + 13d$
 $150 - 20 = 13d$
 $\frac{130}{13} = d = 10$
 $a20 = a + 19d$
 $= 10 + 19 \times 10$
 $= 200$

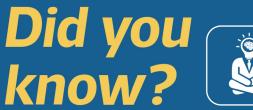
- The roots of quadratic equation ax²+bx+c=0 are real and distinct if
 - (A) $b^2 = 4ac$ (B) $b^2 4ac > 0$
 - (C) $b^2 4ac < 0$ (D) None of these

Answer (B)

Sol. For real roots and distinct roots

 $b^2 - 4ac > 0$

83. If in a triangle, square of longest side is equal to the sum of the squares of the other two sides, then the angle opposite the longest side is







- (A) Acute angle (B) Right angle
- (C) Obtuse angle (D) None of these

Answer (B)

Sol. Pythagoras Theorem (Converse)

84. $\frac{\tan 65^{\circ}}{\cot 25^{\circ}} = ?$ (A) 1 (B) 0 (C) $\frac{1}{2}$ (D) None

Answer (A)

Sol.	tan65°	_ tan(90° – 25°) _	cot 25°
501.	cot 25°	cot 25°	cot 25°

85. Which of the following cannot be the probability of an event?

(B) $\frac{2}{5}$

(D) -0.78

- (A) 0.78
- (C) 73%

Answer (D)

- **Sol.** $0 \le$ probability of an event ≤ 1
- 86. Cube root of 328509 is
 - (A) 65 (B) 66
 - (C) 68 (D) 69

Answer (D)

Sol. 69³ = 328509

- 87. The ratio of angles in a triangle is 1 : 2 : 3, then the largest angle is
 - (A) 60° (B) 90°
 - (C) 120° (D) None of these

Answer (B)

Sol. $\frac{3}{1+2+3} \times 180 = \frac{3}{6} \times 180 = 90$



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EPISODE

88. The point of intersection of lines 7x - 15y - 2 = 0and 6x + 12y - 18 = 0 is (A) $\left(\frac{-49}{29}, \frac{19}{29}\right)$ (B) $\left(\frac{49}{29}, \frac{19}{29}\right)$ (C) $\left(\frac{49}{29}, \frac{-19}{29}\right)$ (D) None of these Answer (B) **Sol.** $7x - 15y - 2 = 0 \rightarrow X6$ $6x + 12y - 18 = 0 \rightarrow X7$ Subtracting 42x - 90y - 12 = 042x + 84y - 126 = 0-174y + 114 = 0-174 = - 114 $y = \frac{114}{174} = \frac{19}{29}$ $7x - 15\left(\frac{19}{29}\right) - 2 = 0$ $7x = \frac{15 \times 19}{29} + 2 = \frac{285}{29} + 2 = \frac{343}{29}$ $x = \frac{49}{29}$ 89. Pair of equations 5x - 8y + 1 = 0 and $3x - \frac{24}{5}y + \frac{3}{5} = 0$ have (A) No solution (B) Unique solution (C) Infinite solutions (D) None of these Answer (C) **Sol.** $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ 90. The area of the triangle with vertices (1, -1), (-4, 6)and (-3, -5) is (A) 20 square unit (B) 22 square unit (C) 24 square unit (D) 28 square unit Subscribe to Vipinomics You Tube Channel

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Answer (C)

Sol. area of

$$\Delta = \frac{1}{2} | x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2) |$$

- 91. Tenth term of A.P. 2, 7, 12, is
 - (A) 42 (B) 47
 - (C) 37 (D) 52
- Answer (B)

Sol. a₁₀ = 2 + 9 × 5 = 47

92. With usual meanings of notations, formula for assumed mean method for A.M. is

(A)
$$\overline{x} = A + \frac{\sum_{i=1}^{N} f_i d_i}{\sum_{i=1}^{N} f_i}$$
 where $d_i = x_i - A$
(B) $\overline{x} = \frac{x_1 + x_2 + \dots + z_n}{N}$
(C) $\overline{x} = \frac{\sum_{i=1}^{N} f_i x_i}{\sum_{i=1}^{N} f_i}$

(D) None of these

Answer (A)

93.	The value of	$\frac{\cos 30^\circ \times \sin 60^\circ}{\cos 60^\circ} \text{ is }$
	(A) 0	(B) 0.5
	(C) 1	(D) 1.5

Answer (D)

Sol. $\frac{\frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2}}{1} = \frac{3}{4} \times \frac{2}{1} = \frac{3}{2}$

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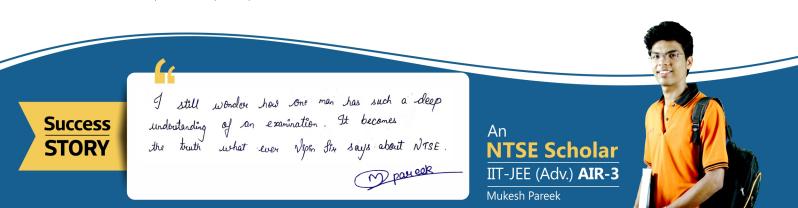


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	94.	. For individual series 108, 64, 40, 57, 30, 54, 32, 52 Median is :		
		(A) 52	(B) 53	
		(C) 54	(D) 55	
	Ans	wer (B)		
	Sol. 30, 32, 40, 52, 54, 57, 64, 108			
		$Median = \frac{52 + 54}{2} = \frac{106}{2} = 53$		
	95.	5. If, $\tan\theta = \frac{3}{4}$, then $\sin\theta \times \cos\theta = ?$		
		(A) $\frac{10}{25}$	(B) $\frac{11}{25}$	
		(C) $\frac{12}{25}$	(D) <u>13</u> <u>25</u>	
	Ans	wer (C)		
	Sol.	$\tan\theta = \frac{3}{4}.$	5	
		$\sin\theta \times \cos\theta = \frac{3}{5} \times \frac{4}{5} = \frac{1}{1}$	$\frac{2}{5}$ $\frac{3}{4}$	
	96. Total two digit numbers completely divisible by 3 are		completely divisible by 3 are	
		(A) 29	(B) 30	
		(C) 31	(D) 32	
		wer (B)		
Sol. 12, 15, 18, 99				
		99 = 12 + (n - 1)3		
	07	n = 30 sin30° × tan30° × cot30	1° x cocce 0° =	
	97.	(A) $\tan 30^\circ$	(B) cot 60°	
		(C) $\sin 30^\circ \times \csc 60^\circ$		
Answer (D)				
Sol. sin30° × tan30° × cot30° × cosec60°				
	$=\frac{1}{2}\times\frac{1}{\sqrt{3}}\times\sqrt{3}\times\frac{2}{\sqrt{3}}=\frac{1}{\sqrt{3}}$			





98. (3x+6)(x+1) + 2x = (x+5)(x+4) has (A) No roots (B) Imaginary roots (C) Real roots (D) None of these Answer (C) **Sol.** (3x + 6)(x + 1) + 2x = (x + 5)(x + 4)On simplification, $x^2 + x - 7 = 0$ D = 29 > 0, therefore real roots 99. When $2x^2 + 3x + 1$ is divided by x + 2 then quotient and remainder are : (A) Q = 2x - 1, R = 3 (B) Q = x + 1, R = 3(C) Q = 2x + 1, R = 3 (D) None of these Answer (A) **Sol.** $2x^2 + 3x + 1 = (2x - 1)(x + 2) + 3$ 100. The zeros of quadratic polynomial $x^2 + 7x + 10$ will be (A) 2 and -5 (B) -2 and 5 (C) -2 and -5 (D) None of these Answer (C) **Sol.** x² + 7x + 10 = 0 $x^{2} + 2x + 5x + 10 = 0$ **ru**.in (x + 2) (x + 5) = 0

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Therefore x = -2, -5

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