SAMPLE PAPER
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## CATSE (career academy talent search exam)

(b) 1871
(c) 1872
(d) 1873
Q. 13 Which among the following passed the Rowlatt Act 1919?
(a) Statutory Commission
(b) Imperial Legislative Council
(c) The Government of India
(d) The British Council
Q. 14 is the most widely spread and important soil of India.
(a) Black soil
(b) Red Soil
(c) Alluvial Soil
(d) Laterite soil
Q. 15 When was Indian Wildlife Protection Act implemented?
(a) 1970
(b) 1972
(c) 1974
(d) 1976
Q. 16 Which two languages are generally spoken in Belgium?
(a) French \& English
(b) Dutch and English
(c) French and Dutch
(d) Dutch and Sinhala
Q. 4 Which of the following salts has no water of crystallization?
(a) Blue vitriol
(b) Washing soda
(c) Baking Soda
(d) Gypsum
Q. 5 The equation
$\mathrm{Cu}+x \mathrm{HNO}_{3} \rightarrow \mathrm{Cu}\left(\mathrm{NO}_{3}\right)_{2}+y \mathrm{NO}_{2}+$
$2 \mathrm{H}_{2} \mathrm{O}$
The value of $x$ and $y$ are-
(a) 3 and 5
(b) 8 and 6
(c) 4 and 2
(d) 7 and 1
Q. 6 Although metals form basic oxides, which of the following metals form an Amphoteric oxide?
(a) $A l$
b) Ca
(c) $N a$
(d) Cu
Q. 7 Depletion of Ozone molecules in the stratosphere is due to
a) Chlorine compounds
(c) Halogen compounds
(d) None of these
Q. 8 Living cells placed in isotonic solution ( $0.9 \%$ Saline) retain their size and shape This is based on the concept of :
(a)Facilitated diffusion
(b) Diffusion
(c) Constant flow
(d) Osmosis
Q. 9
is responsible for maintaining biological clock of body
(a) Pineal
(b) Kidney
(d) Adernal
Q. 10 Which of the following statement is true about brain?
(I) The main thinking part of brain is hind brain.
(II) Centres of hearing, smell, memory, sight etc located in fore brain
(III) Involuntary actions like blood pressure, respiration are controlled by the medulla in the hind brain
(IV) Cerebellum does not control posture and balance of the body
(a) I and II
(b) I, II and III
(c) II and III
(d) III and IV

ANSWER KEY:-
1.(A) 2.(D) 3.(A) 4.(C) 5.(C) 6.(A)
7.(C) 8.(D) 9.(A) 10.(C)

## SOCIA L sCIE NCE

Q. 11 What was the theme of the printings of Frederic Sorrieu?
(a) Democracy
(b) Socilaism
(c) Capitalism
(d) None of the above
Q. 12 Germany was unified in $\qquad$ .
Q. 20 Railway is an example of:
(a) Private Sector
(b) Public Sector
(c) Secondary Sector
(d) None of these

## ANSWER KEY:-

| 11.(A) | $12 .(B)$ | $13 .(B)$ | $14 .(C)$ |
| :--- | :--- | :--- | :--- |
| $15 .(B)$ | $16 .(C)$ | $17 .(A)$ | $18 .(B)$ |

19.(A) 20.(B)

## MatheMatics

Q. 21 A 1.5 m tall student walk with his family and observe a banner of CATSE (organised by career Academy Nahan) situated at top of 30 m high building a some distance from that building. The angle of elevation from his eyes to the banner of CATSE is $30^{\circ}$ and increase to $60^{\circ}$, as he walks towards the building Then the distance he walks toward the building is
(a) $20 \sqrt{3}$
(b) $18 \sqrt{3}$
(c) $19 \sqrt{3}$
(d) None
Q. 22 If two zeroes of
$x^{4}-16 x^{3}+86 x^{2}-76 x+105$
are 1 and 7 , then the remaining zeroes of the expression are
(a) 3,5
(b) 1,5
(c) 1,3
(d) 2,4
Q. 23 Two dice are rolled simultaneously Getting the sum of numbers on the two faces divisible by 3 or 4 .
(a) $\frac{4}{9}$
(b) $\frac{1}{7}$
(c) $\frac{5}{9}$
(d) $\frac{7}{12}$
Q. 24 The area of an equilateral triangle whose two vertices are $(1,0)$ and $(3,0)$ and third vertex lying in the first quadrant is :
(a) $\frac{\sqrt{3}}{4}$
(b) $\frac{\sqrt[4]{3}}{2}$

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$(\mathrm{X})$ is embedded in one of them. Trace out the correct alternative.

Q. 39 How many days were there from January 2, 1995 to March 15,1995?
(a) 73
(b) 74
(c) 71
(d) 35
Q. 40 Complete the series
$17,25,41,65,97 \ldots$.
(a) 147
(b) 100
(a) 147
(c) 137
(d) 98

## ANSWER KEY:-

31.(C) $\quad$ 32.(C) $\quad$ 33.(A) $\quad$ 34.(A) $\quad$ 35.(D)
36.(B) $\quad$ 37.(D) $\quad$ 38.(B) $\quad$ 39.(A) $\quad$ 40.(C)

Q. 37 How many squares are there in the figure given below?
(a) 12
(b) 13
(c) 16
(d) 19 .
Q. 38 Insert the missing letter or numerical value in following questions.
(a) 64
(b) 36
(c) 16
(d) 72
then the value of p is :

| Class | $0-10$ | $10-30$ | $30-60$ | $60-80$ | $80-90$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Frequency | 5 | 15 | 30 | p | 2 |

(a) 7
(b) 8
(c) 9
(d) 7.6
Q. 30 A motor boat takes 12 hours to go downstream and it takes 24 hours to return the same distance. What is the time taken by boat in still water?
(a) 15 h
(b) 16 h
(c) 8 h
(d) 20 h
21.(C) 22.(A) 23.(C) 24.(C) 25.(C) 26.(A) 27.(A) 28.(D) 29.(B) 30.(B)

## Mentalability

Q. 31 In a certain code 'COURT' is written as 5\%@38 and TILE is written as 8@\$4. How is CITE written in that code?
(a) $5 \$ 84$
(b) $5 \% 84$
(c) 5 @ 84
Q. 32 A cat runs 20 m towards East and turns to right, runs 10 m and again turns to right, runs 9 m and again turns to left, runs 5 m and then turns to left, runs 12 m and finally, turns to left and runs 6 m Which direction is the cat facing now?
(a) East
(b) West
(c) North
(d) South.
Q. 33 Choose the correct mirror image of the figure (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it.

Q. 34 Choose the alternative which most closely resembles the mirror image of the given combination
CAREER ACADEMY
(a) CVYEEY VCVDEW人
(b) YMGロADA ЯЗЗЯAD (c) $\lambda W G G V O V$ yGidvo (d) XIIED $\mathcal{F} C H$ BEEBFC
Q. 35 Find the missing term in the following series.
ACEGI, JLNPR, SUWYA, ? , KMOQS
(a) LBGH
(b) ADIFH
(c) JUVUR
(d) BDFH four figures (a), (b), (c) and (d) such that

