In $\triangle A B C$, if $\angle B=\mathbf{9 0}$ and the numbers denoting the length of ' $h$ ' and ' $a$ ' are consecutiveintegers, find $\sin \theta$ in terms of ' $b$ '.

(A) $\frac{\mathrm{b}-1}{\mathrm{~b}+2}$
(B) $\frac{\mathrm{b}-1}{\mathrm{~b}+1}$
(C) $\frac{\mathrm{b}^{2}-1}{\mathrm{~b}^{2}+1}$
(D) $\frac{\mathrm{b}-2}{\mathrm{~b}^{2}-1}$

Find the unit digit of $\mathbf{1 + 9 + 9}+$ $9^{2008}$.
(A) 3
(B) 9
(C) 1
(D) 0

III3 A man arranges to pay off a debt of ₹ $\mathbf{3 6 0 0 0}$ by $\mathbf{4 0}$ annual instalments which are in A.P. When 30 of the instalments are paid he dies leaving one third of the debt unpaid. Find the value of $12^{\text {th }}$ instalment.
(A) 530
(B) 510
(C) 340
(D) 730

1114 If $\alpha, \beta$ aretheroots of $\mathbf{x}^{2}+\mathbf{p x}+1=0$ and $\gamma, \delta$ aretheroots of $\mathbf{x}^{2}+\mathbf{q x}+1=0$, find $(\alpha-\gamma)(\beta-\gamma)(\alpha+\delta)(\beta+\delta)$.
(A) $2 q^{2}$
(B) $2 p^{2}$
(C) $p^{2}-q^{2}$
(D) $\mathrm{q}^{2}-\mathrm{p}^{2}$

If the sides of a triangleare doubled, what is the effect on its area?
(A) remains same
(B) is doubled
(C) becomes 4 times
(D) Can't say
HF
(A)
 W

?
(B)

(C)

(D)


14 In which of the foll owing the given figureis hidden?

(B)

(C)


(D)


III If $A \times B$ means $A$ is to the South of $B$, $A+B$ means $A$ is to the North of $B$, $A \div B$ means $A$ is to the East of $B$, $A-B$ means $A$ is to the West of $B$, then in $\mathbf{P} \div \mathbf{Q}+\mathbf{R}-\mathbf{S}, \mathbf{S}$ is in which direction with respect to $\mathbf{Q}$ ?
(A) South-west
(B) South-east
(C) North-east
(D) North-west

How many pairs of letters are there in the word CREATIVE which have as many letters between them in the word as in the English alphabet?
(A) One
(B) Two
(C) Three
(D) Four
$A$ and $B$ arechildren of $D$. Which of thegiven statements I and II is necessary to answer thequestion below the box?
(i) C is the brother of A and the son of $E$.
(ii) $F$ is the mother of $B$.

Who is the father of $A$ ?
(A) Only (i)
(B) Only (ii)
(C) Either (i) or (ii)
(D) Both (i) and (ii)

What is a wirelesstechnology built in electronic gadgets used for exchanging data over short distances?
(A) Bluetooth
(B) Wifi
(C) Modem
(D) USB

What do you mean by verification of login name and password?
(A) Access
(B) Login
(C) Authentication
(D) Logout

Which of the fol lowing memory has theshortest access time?
(A) Read only memory
(B) Virtual memory
(C) Random access memory
(D) Cache memory

What is the collection of user message on various subjects that are posted on worldwide network?
(A) Telnet
(B) Usenet
(C) Arpanet
(D) Internet

115 What doesJ PEG stands for?
(A) J unction Point Exchange Group
(B) Joint Point ExchangeGroup
(C) J oint Photographic Experts Group
(D) J unction Photographic Experts Group


Which of the following words is suitablefor the given blank?

Having $\qquad$ , Vivek does not like birds.
(A) ornithophobia
(B) pediophobia
(C) claustrophobia
(D) ranidaphobia

## Identify theright option to correct this incorrect one.

He said that he was studying since morning.
(A) hehadstudied
(B) he was going to
(C) he had been studying
(D) hestudies

What does 'ALLEGI ANCE' mean?
(A) Devotion
(B) Dedication
(C) Compassion
(D) Loyalty

IdentifytheMISSPELT word.
(A) Sarcofhagus
(B) Maintenance
(C) Lieutenant
(D) Reincarnation

Which option can replace the blank in the given sentence?

We cannot use this machine as the secretary has set a $\qquad$ policy.
(A) pinch of salt
(B) dog in the manger
(C) drug on the market
(D) life in the fast lane

