## MATHS

Q. 1 The decimal expansion of the rational number 37/(22.5) will terminate after
(a) one decimal place
(b) two decimal places
(c) three decimal places
(d) more than 3 decimal places
Q. 2 The value of " $x$ " in the polynomial $3 a 2+2 x a+3 a+9$ if $(a+x)$ is one of its factors.
(a) 9
(b) 3
(c) 1
(d) 0
Q. 3 Which one of the following is not a quadratic equation?
(a) $(x+6) 2=2(x+2)$
(b) $x 2+4 x=(-1)(1-x) 2$
(c) $(x+3)(x-1)=x 2-5 x-3$
(d) $x 3-x 2+2 x+1=(x+1) 3$
Q. 4 The missing terms in AP: $\qquad$ , 18, $\qquad$ 6, are:
(a) 11 and 9
(b) 25 and 13
(c) 24 and 12
(d) 26 and 32
Q. 5 Cards bearing numbers 4 to 20 are placed in a bag and mixed thoroughly. A card is taken out from the bag at random. The probability that the number on the card taken out is an odd number, is
(a) $9 / 17$
(b) $5 / 17$
(c) $1 / 2$
(d) $8 / 17$
Q. 6 If the perimeter of the circle and square are equal, then the ratio of their areas will be equal to:
(a) $14: 11$
(b) $22: 7$
(c) $7: 22$
(d) $11: 14$ Sample Paper - Class 10

## SCIENCE

Q. 1 In manufacturing cement, Quicklime is used and it is obtained by thermal decomposition of limestone. Write the chemical equation involved in this process
(a) $\mathrm{CaO}(\mathrm{s})+\mathrm{H} 2 \mathrm{O}(\mathrm{I}) \rightarrow \mathrm{Ca}(\mathrm{OH}) 2(\mathrm{~s})+$ Heat
(b) $\mathrm{CaCO} 2(\mathrm{~s}) \rightleftharpoons \mathrm{CaO}$ (s) +CO (s)
(c) CaCO 3 (s) $\rightleftharpoons \mathrm{CaO}$ (s)+CO2(s)
(d) $\mathrm{CaO} 2(\mathrm{~s})+\mathrm{H} 2 \mathrm{O}$
$(\mathrm{I}) \rightarrow \mathrm{Ca}(\mathrm{OH}) 3(\mathrm{~s})+$ Heat
Q. 2 Which acid is used present in the apples ( green)
(a)Tantric acid
(b)Malic acid
(c)Tannic acid
(d)Oleic acid
Q. 3 Choose the correct pair

The function of abscisic acid is
(i) It cause wilting of leaves
(ii) It inhibits the growth of lateral buds
(iii) It induces the closing of stomata
(iv) It promots seeds germination
(a) (i) and (ii)
(b) ( ii) and (iv)
(c) (i) and (iii)
(d) (ii) and (iii)
Q. 4 The number of oxygen atoms present in ozene are:
(a)one
(b)two
(c)three
(d)four
Q. 5 Aryan added dilute HCl to a test tube containing zinc granules. Which of the following observations are correct?
(i) Zinc surface will lose its lustre.
(ii) H 2 will be evolved during reaction.
(iii) The solution become red.
(a) (ii) and (iii)
(b) (i) and (ii)
(c) (i) and (iii)
(d) (i), (ii) and (iii)
Q. 6 Which of the following daigram is showing the correct angle of incidence and emergence

(A)

(B)

(C)

(D)
(a) A
(b) B
(c) C
(d) D

## SOCIAL STUDIES

Q. 1 The full form of UNCED is:
(a) United Nations Convention on Energy and Development.
(b) United Nations Conference on Environment and Development.
(c) United Nations Commission on Energy and Development.
(d) None of these.
Q. 2 Hydroelectricity to the industries of Maharashtra is provided by some river projects. The name of these projects are:
(a) Geetenjli Project and Koyna Project
(b) Hirakund Project
(c) Pravara Project and Koyna Project
(d) Rihand project
Q. 3 Slash and Burn agriculture is known as Roca in $\qquad$
(a) India
(b) Indonesia
(c) Brazil
(d) China
Q. 4 What does per capita income hide
(a) population
(b) avarage income
(c) disparities
(d) None of above
Q. 5 Which of the following statements is true?
(a) As per Indian law, apart from RBI, other individual or organisation is allowed to issue currency.
(b) The law legalises the use of rupees as a medium of payment that can be refused in settling transactions in India
(c) No individual in India can legally refuse a payment made in rupees.
(d) All of the above.
Q. 6 Which one of the following communities constituted majority in Brussels?
(a) Portuguese Speaking
(b) Dutch Speaking
(c) French Speaking
(d) English speaking

## COMPUTER SCIENCE

Q. 1 Which of the following tags do not require a terminator
(a) <u>
(b) <br>
(c) <b>
(d) none of the above
Q. 2 MAC addresses are $\qquad$ hexadecimal (or 48 bit) numbers.
(a) 12 digit
(b) 16 digit
(c) 32 digit
(d) 64 digit

