VII- Mathematics Assignment No.-07- Exponents and Powers

M.C.Q.

Q1 If $a^x = m$ then m is

(i) a power of a (ii) an exponent of a

(iii) the base of x (iv) the index of the power of a

Q2 $\left[\left(\frac{1}{9}\right)^{-\frac{1}{2}}\right]^3$ is equal to

(i) $\frac{1}{27}$ (ii) 27 (iii) 81 (iv) $\frac{1}{81}$

Q3 $\left[\left[\left(\frac{4}{-9}\right)^2\right]^0\right]^{-\frac{1}{2}}$ equals

(i) zero (ii) $-\frac{4}{9}$ (iii) 1 (iv) $\frac{4}{9}$

Q4 The value of $(0.000729)^{\frac{5}{6}}$ is

(i) 0.243 (ii) 0.0243 (iii) 0.000243

(iv) 0.00243

Q5 The value of $(0.00032)^{\frac{1}{5}}$ is

(i) 0.2 (ii) 2 (iii) 0.02 (iv) 0.002

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Q6. $(-3)^2 \times (-1)^{101}$ is equal to

(i) 9 (ii) -9 (iii) 6 (iv) -6

Q7. If $x^3 = -64$ then the value of x is

(i) 64 (ii) 8 (iii) -4 (iv) 4

Q8. In $\left(\frac{2}{3}\right)^4$, the base is

(i) 2 (ii) 3 (iii) 4 (iv) $\frac{2}{3}$

Q9. The reciprocal of $\left(\frac{-3}{7}\right)^2$ is

(i) $\left(\frac{-7}{3}\right)^2$ (ii) $\left(\frac{3}{-7}\right)^2$ (iii) $\frac{9}{49}$ (iv) $\frac{49}{3}$

Q10. $\dfrac{4^0 + 5^0 + 6^0}{6^2 \div 6}$ is equal to

(i) $\frac{1}{6}$ (ii) $\frac{1}{2}$ (iii) $\frac{1}{3}$ (iv) $\frac{1}{4}$

ANSWERS:

(Q1) (i)	(Q6) (ii)
(Q2) (ii)	(Q7) (iii)
(Q3) (iii)	(Q8) (iv)
(Q4) (iv)	(Q9) (i)
Q5 (i)	(Q10) (ii)