

DM Quiz Unit-6

* Required

* This form will record your name, please fill your name.

1. Roll No *

2. Name *

3. Class *

☐ SE Shift 1

☐ SE Shift 2

4. A non empty set A is termed as an algebraic structure _____ *
(2 Points)

- ☐ with respect to binary operation *
- ☐ with respect to ternary operation ?
- ☐ with respect to binary operation +
- ☐ with respect to unary operation –

5. An algebraic structure _____ is called a semigroup. *
(2 Points)

- ☐ $(P, *)$
- ☐ $(Q, +, *)$
- ☐ $(P, +)$
- ☐ $(+, *)$

6. Condition for monoid is _____ *
(2 Points)

- ☐ $(a+e)=a$
- ☐ $(a*e)=(a+e)$
- ☐ $a=(a*(a+e))$
- ☐ $(a*e)=(e*a)=a$

7. A monoid is called a group if _____ *
(2 Points)

- ☐ $(a*a)=a=(a+c)$
- ☐ $(a*c)=(a+c)$
- ☐ $(a+c)=a$
- ☐ $(a*c)=(c*a)=e$

8. A group $(M,*)$ is said to be abelian if _____ *
(2 Points)

- ☐ $(x+y)=(y+x)$
- ☐ $(x*y)=(y*x)$
- ☐ $(x+y)=x$
- ☐ $(y*x)=(x+y)$
- ☐ Option 2

9. Matrix multiplication is a/an _____ property. *
(2 Points)

- ☐ Commutative
- ☐ Associative
- ☐ Additive
- ☐ Disjunctive

10. A cyclic group can be generated by a/an _____ element. *
(2 Points)

- ☐ singular
- ☐ non-singular
- ☐ inverse
- ☐ multiplicative

11. How many properties can be held by a group? *
(2 Points)

- ☐ 2
- ☐ 3
- ☐ 5
- ☐ 4

12. A cyclic group is always _____ *
(2 Points)

- ☐ abelian group
- ☐ monoid
- ☐ semigroup
- ☐ subgroup

13. $\{1, i, -i, -1\}$ is _____ *
(2 Points)

- ☐ semigroup
- ☐ subgroup
- ☐ cyclic group
- ☐ abelian group

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