Correct

Mark 0.50 out of 0.50

∀ Flag

question

### $S_{10}$ has an element of order 12

- a. False
- b. True 

  ✓

The correct answer is: True

#### Question 2

Incorrect

Mark 0.00 out of 0.50

♥ Flag

question

# The order of (1254)(514) is 12

- a. False
- b. True 

  x

Correct

Mark 0.50 out of 0.50

y Rag question  $|A_{10}| = 1024$ 

- a. True
- b. False 

  ✓

The correct answer is: False

Question 4

Incorrect

Mark 0.00 out of 0.50

₹ Rag question

$$(Q,+)\cong (Z,+)$$

- a. False
- b. True x

Correct

Mark 0.50 out of 0.50

P Flag question

### $S_6$ has an element of order 12

- ® a. False ✔
- Ob. True

The correct answer is: False

#### Question 6

Incorrect

Mark 0.00 out of 0.50

P Flag question

# $(Z_4,+_4)$ is isomorphic to a subgroup of permutation of $S_3$

- a. False x
- Ob. True

The correct answer is: True

Correct

Mark 0.50 out of 0.50

⟨ Flag

question

## Any two groups with the same number of elements are isomorphic

- a. False 

  ✓
- Ob. True

The correct answer is: False

#### Question 8

Correct

Mark 0.50 out of 0.50

P Flag question

### Every permutation is a cycle

- a. True
- b. False 

  ✓

Correct

Mark 0.50 out of 0.50

P Flag question  $(R,+)\cong (R^+,.)$ 

- ® a. True ✔
- b. False

The correct answer is: True

Question 10

Correct

Mark 0.50 out of 0.50

P Flag question  $S_3$  is cyclic

- a. True
- b. False 

  ✓

Correct

Mark 0.50 out of 0.50

P Flag question

# $A_3$ is isomorphic to a cyclic subgroup of $S_4$

- a. False
- b. True 

  ✓

The correct answer is: True

#### Question 12

Correct

Mark 0.50 out of 0.50

P Flag question

# $A_3$ is cyclic

- ® a. True ✔
- ob. False

The correct answer is: True

Incorrect

Mark 0.00 out of 0.50

₱ Flag question

## Any two finite cyclic groups are isomorphic

- a. False
- b. True 

  x

The correct answer is: False

Question 14

Correct

Mark 0.50 out of 0.50

₹ Flag question

$$(Z,+)\cong (2Z,+)$$

- ® a. True ✔
- 0 b. False

Incorrect

Mark 0.00 out of 0.50

P Flag question

# There is a permutation group of order 8 which isomorphic to $U(15)\,$

- a. True
- b. False x

The correct answer is: True

#### Question 16

Correct

Mark 0.50 out of 0.50

P Flag question

## A cyclic group can be isomorphic to a group of permutation

- a. True 

  ✓
- Ob. False

The correct answer is: True

# **Q2**:

Show that  $Q^+$  (The set of positive rational numbers) under multiplication is not isomorphic to Q under addition.