

MEIOSIS MEMO

1.1

- 1.1.1 Homologous✓ (1)
- 1.1.2 Spindle thread✓/spindle fibre (1)
- 1.1.3 4✓ (1)
- 1.1.4 2✓/half (1)
- (4)**

1.2

- 1.2.1 A - daughter chromosome✓/chromatid (1)
- 1.2.2 2✓ (1)
- 1.2.3 2✓ (1)
- (3)**

1.3

- 1.3.1 Anaphase II✓ (1)
- 1.3.2 Chromatids✓ are pulled towards the poles✓ (2)
- 1.3.3 A Spindle fibre✓ (2)
- B Cell membrane✓ (2)
- 1.3.4 (a) 8✓ (1)
- (b) 4✓ (1)
- 1.3.5 Ovary✓ (1)
- 1.3.6 No✓ (1)
- 1.3.7 Humans would have 23✓ chromosomes/46 chromatids in this phase. In this diagram only 4 chromosomes✓/8 chromatids are shown/incorrect✓ number ✓ of chromosomes (2)
- 1.3.8- Reduction/halving of chromosome number✓/keep chromosome number constant from generation to generation/prevents doubling of chromosome number at fertilisation
- Promotes/contributes to genetic variation✓
Formation of gametes/cells containing one allele of a gene pair✓

(Mark first TWO only) (2)

(13)

2.1

- 2.1.1 A - Chromosome ✓
B - Centromere ✓
C - Chromatid ✓
D - Chiasma ✓

(4)

2.1.2 Crossing over ✓

(1)

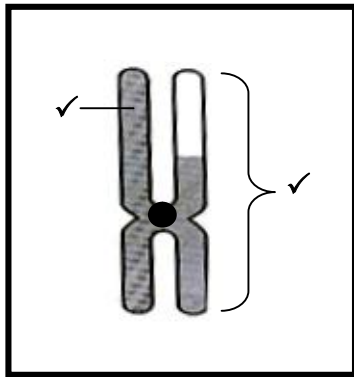
2.1.3 Mixing of genetic material ✓/variation and gametes are different from each other ✓

(2)

2.1.4 Prophase 1 ✓

(1)

2.1.5



Mark allocation:

Chromosome drawn ✓

Chromosome has shaded and unshaded part in the correct proportion ✓

(2)

(10)