

# **16. Reproduction**

## **16.6 Sexually transmitted infections**

### **Paper 3 and 4**

#### **Marking Scheme**

**Q1.**

(a)(i)	human immunodeficiency virus ;	1											
(a)(ii)	<i>any three from:</i> (sexual) abstinence ; barrier methods of contraception / condom / femidom ; clean / do not share, needles ; blood screening (for transfusion) / AW ; HIV screening (of sexual partners) / AW ; bottle feeding infants / AW ; avoid contact with (infected) blood / AW ; sterilise medical equipment ; AVP ; e.g. PrEP / ref to pregnancy such as caesarean section or anti-viral drugs	3											
(b)(i)	<table border="1"><tr><td>In 2014, there were 1 050 000 more people infected with chlamydia than were infected with gonorrhoea in 2014.</td><td>✓ ;</td></tr><tr><td>In 2016, the number of people infected with chlamydia was three times greater than the number of people infected with gonorrhoea.</td><td></td></tr><tr><td>In 2018, more people were infected with syphilis than with gonorrhoea.</td><td></td></tr><tr><td>The number of people with STIs has increased each year.</td><td>✓ ;</td></tr><tr><td>Between 2016 and 2018, the number of people with syphilis increased by 16 000.</td><td></td></tr></table>	In 2014, there were 1 050 000 more people infected with chlamydia than were infected with gonorrhoea in 2014.	✓ ;	In 2016, the number of people infected with chlamydia was three times greater than the number of people infected with gonorrhoea.		In 2018, more people were infected with syphilis than with gonorrhoea.		The number of people with STIs has increased each year.	✓ ;	Between 2016 and 2018, the number of people with syphilis increased by 16 000.		2	R each additional tick
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(b)(ii)	bacteria ;	1											

**Q2.**

(b)(i)	virus ;	<b>1</b>	
(b)(ii)	<i>any three from:</i> (contaminated blood) transfusions ; (direct) blood to blood contact / exchange of blood ; sharing (contaminated) needles ; breastfeeding / AW ; during birth ; unprotected sex <b>OR</b> transfer / exchange, of sexual fluids ; AVP ;	<b>3</b>	

**Q3.**

(a)(i)	<b>A</b> ;	<b>1</b>	
(a)(ii)	3.3 ;;	<b>2</b>	MP1 for correct calculation MP2 for correct answer rounded to one decimal place
(a)(iii)	antibiotics, only kill bacteria / do not kill viruses ;	<b>1</b>	

**Q4.**

(a)(i)	(–)59(%) ;	<b>3</b>	MP1 correct readings from graph (3900 and 1600) MP2 correct calculation and answer to any number of significant figures MP3 correct rounding to two significant figures ecf from previous step
(a)(ii)	<i>any four from:</i> abstain from sexual contact ; condoms / femidom ; testing / screening ; contact tracing ; education (about, risks / how it is transmitted / prevention) ; use of antibiotics ; no sharing of needles ; using screened blood for transfusions ; vaccination ; AVP ;	<b>4</b>	