

BCH 3033 General Biochemistry EXAM-4 Key and Grade Distribution

Form 1 (purple)

1-d	2-b	3-c	4-e	5-c	6-a	7-d	8-b	9-d	10-b
11-b	12-d	13-a	14-b	15-b	16-c	17-e	18-e	19-b	20-d

Written Questions

1. Structure as in Figure 7-16 but as a disacchaide (tetrasaccharide in the Figure).
2. a. DNA polymerase could add only 1 which + primer = 16 N'tides.
b. primer+3, primer+6, primer+7, primer+10, primer+16 and primer+19.
c. primer+19
d. primer+1, primer+5, primer+9, primer+12, primer+14, primer+15, primer+17, primer+18, primer+19.
3. 9.4×10^{17} Nucelotides.

Form 2 (white)

1-b	2-d	3-e	4-c	5-a	6-c	7-d	8-d	9-d	10-b
11-e	12-d	13-e	14-c	15-c	16-b	17-e	18-d	19-a	20-d

Written Questions

1. Structure as in Figure 7-22 at the top.
2. a. DNA polymerase could add all (19) which + primer = 34 N'tides.
b. primer+3, primer+7, primer+10, primer+16 and primer+19.
c. primer+19 (most) = few of primer+4 if the ddGMP got stuck in the active site.
d. primer+2, primer+4, primer+5, primer+6, primer+8, primer+11, primer+13, primer+17, primer+19.
3. 1.7×10^{21} Å or 1.7×10^8 km or 1.7×10^{11} m.

Grade Distribution

Average = 55 +/- 19 High = 97 Low = 13