學號: ______ 考試日期: 2020/10/06

1. 請框出答案. 2. 不可使用手機, 禁止作弊!

1. (50%) 配對方法與名稱:

```
В
    while abs(f(p)) > tol:
       p = (a+b)/2
       if f(a) * f(p) <0:
          a = a
          b = p
       elif f(b) * f(p) < 0:
          a = p
          b = b
D
    while abs(f(p)) > tol:
       p=p1-f(p1)*(p1-p0)/(f(p1)-f(p0))
       p0 = p1
       p1=p
\mathbf{C}
    while abs(p-f(p)) > tol:
       p = f(p)
A
    while abs(f(p)) > tol:
       p=p0-f(p0)/Df(p0)
       p0=p
```

- A. Newton's Method
- B. The Bisection Method
- C. The Fixed Point Method
- D. The Secant Method

2. (50%) Let x=1/3, y=4/7. Find $x \oslash y=fl(fl(x) \div fl(y))$ by using 4-digit chopping arithmetic.

Answer:

```
x \oslash y = fl(fl(x) \div fl(y)) = fl(fl(0.\overline{3}) \div fl(0.\overline{571428})) = fl(0.3333 \div 0.5714) = fl(0.5833041652) = 0.5833
```