## 31054031 葉詩富數據所

1. 
$$0. \frac{2}{10} + \frac{2}{12} + \frac{3}{15} = \frac{1}{5} + \frac{1}{6} + \frac{1}{5} = 0.2 + 0.167 + 0.2 = 0.567$$

$$U(3) = 3 \times (2^{\frac{1}{3}} - 1) = (0.729)$$

$$0.567 \leq U(3) \quad \therefore \quad \text{Text} \quad \text{Text} \quad \text{Text}$$

). 
$$\frac{1}{10} + \frac{1}{12} + \frac{1}{15} = \frac{1}{5} + \frac{1}{3} + \frac{1}{3} = 0.2 + 0.33 + 0.33 = 0.866$$

$$U(3) = 0.719$$

$$0.866 > U(3)$$

$$\therefore 7 - 7271 \times 11 + 124$$

2.

b. T. Ro: 2=10 ok.

T2: Ro: 2+4=6≤12 ok.

D1: 2× でんて+ 4× 「ら」= 2+4=6≤12 ok.

T3: Ro: 2+4+5=11<15 ok.

R1: 2× パーフ+ 4× デーフ+ 5× デーフ=4+4+5=13≤15 ok.

R2: Z× ドレフ+ 4× デーフ+ 5× デーフ=4+4+5=1) >15 fail :: 不可以排程。

4.

Ans: 1. A critical instance of atask Ti occurs when its job Jic and a job from every higher-priority task are all released at the same time.

2. EDF fo RM-樣。

7

NPCS	CPP.
T1: 2	T, : 0
T2: 2	Tz . 1-5
T3:2	T3: 2
T4:0	T4: 0 H

7 17	Treat 1	Ariority-1-6	prienty -c-b	
7, 12	13 14	72 73 74	7 L 73 74	7, : 0
T	-			7, 1,5
12	1.5			15.10
13	2	1.51	1.5	73:2
				Tu · D

8

$$\frac{112}{6} = 0.5 \le U(1) = 1$$

$$\frac{2}{6} + \frac{11}{8} = 0.33 + 0.25 = 0.58 \le U(2) = 0.13$$

$$\frac{2}{6} + \frac{1}{8} + \frac{0.12}{20} = 0.33 + 0.125 + 0.1 = 0.555 \le U(3) = 0.78$$

$$\frac{2}{6} + \frac{1}{8} + \frac{0.12}{20} = 0.33 + 0.125 + 0.1 = 0.555 \le U(3) = 0.78$$

$$\frac{7}{10} \times \frac{11}{10} = \frac{1}{10} \times \frac{1}{10} = \frac{1$$

9. 
$$\frac{1+2}{6} = 0.5 \le U(1) = 1$$
 ok  $\frac{2}{6} + \frac{1+1}{8} = 0.33 + 0.35 = 0.58 \le U(2) = 0.83 \text{ ok}$   $\frac{2}{6} + \frac{1}{8} + \frac{0+2}{20} = 0.33 + 0.13 + 0.13 + 0.1 = 0.555 \le U(3) = 0.78 \text{ ok}$  .: 技术 第8超算法- 構 了以排程》

かた 情級

T, 0 Pa か # RM 排程 & circular waiting で 数 dead lock

T2 0 Po Rc 例 如 R T2 年到 Rb 後,就不可能再算 Rc 因為 system

(eiling, 所以就 破除 circular waiting!