## 《Artificial Intelligence》

## Final Examination Answer Sheet

| Name:    | S | tudent ID: | Dept.: |       |  |  |
|----------|---|------------|--------|-------|--|--|
| Section  | 1 | 2          | 3      | Total |  |  |
| Score    |   |            |        |       |  |  |
| Reviewer |   |            |        |       |  |  |

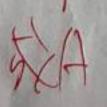
### 1. Fill in the blanks (30 points, 2pt/per)

| <br>FI | FO | , LI | FO   |
|--------|----|------|--|
|        |    |      | The second secon |

| 10) | policy | [0,1] | ((0,1)) | 1 (0,1) | / EO. 1) |
|-----|--------|-------|---------|---------|----------|
|     | 1      | /     | 1       | /       | 1        |

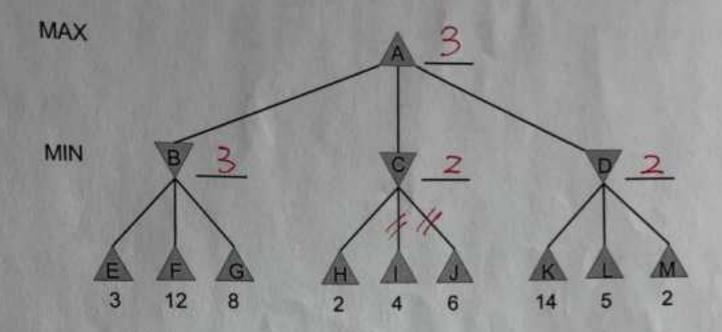
### 2. Multiple Choice (36 points, 2pt/per)

| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9 | 10 |
|----|----|----|----|----|----|----|----|---|----|
| C  | D  | B  | C  | B  | C  | B  | A  | D | B  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |   |    |
| D  | A  | A  | C  | D  | C  | A  | В  |   |    |



# 3. Calculus and Analysis (34 points)

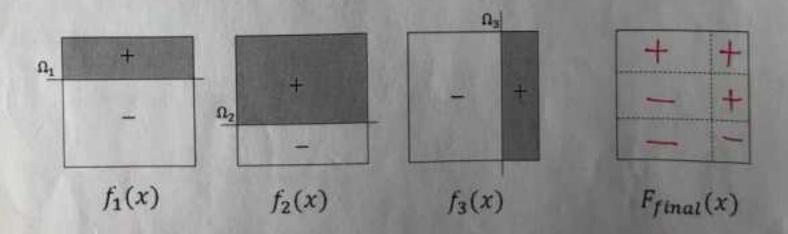
# 1) (Game Playing, 8 points) (a) (4 points)



#### (b) (4 points)

#### 2) (Boosting, 8 points) (a) (4 points)

### (b) (4 points)



3) (Image Restoration, 6 points)

4) (Deep Learning, 12 points)

(a) (3 points)

(b) (3 points)

(c) (3 points)

(o) or  $\begin{pmatrix} \alpha_1 \\ \alpha_2 \\ \alpha_3 \\ \alpha_4 \end{pmatrix}$  st.  $\alpha_1 > \{\alpha_1, \alpha_3, \alpha_4, \alpha_5\}$ 

(d) (3 points)

convolutional kernel/filter

network parameters