**UACE S101 General Paper section B: Logic Quiz 20**

**Study the information and answer the questions that follow:**

Placement of students in a certain country for s.6 leavers for public universities is based on the following criteria for purposes admission in the university.

1) Weight is computed for O-level grades based on distinctions, credits and passes.
2) All subjects taken at advanced level of education are grouped into three categories and weighed as follows

| Subject categories | Weight |
| --- | --- |
| Essential | 3 |
| Relevant | 2 |
| Desirable | 1 |

A-level grade Letters: Grades are represented by letters and representative points (brackets) are A (6), B (5), C (4), D (3), E (2), O (1), and F (0).

The A-level weights for a given program is obtained by multiplying each subject grade point by the relevant weighing factor and adding for all subjects taken and passed

1. A subject at subsidiary level carries one point if the result lies from D1 to C5
2. Female student gets an additional one point based on affirmative action.
3. The combined weight of a candidate for a given program is obtained by adding the O-level weight to the additional point (affirmative action) and to the A-level weight (A = 6, B =5, C = 4, obtained

Detailed weighting system for program at the University

| Program | Essential subjects | Relevant subjects | Desirable subjects |
| --- | --- | --- | --- |
| Bachelor of Business studies | One better done of Economics (Econ) or Entrepreneurship (Ent) | Two best done Mathematics (M), Geography, Economics (Econ), Physics (P), Entrepreneurship (Ent), History (H), Art | General paper (GP), Subsidiary mathematic (Sub-math) or Information technology (ICT) |

Given five students applied for Bachelor of Business Studies

| Name | Gender | Combination | O-level weight | Result in order of combination |
|---|---|---|---|---|
| Florence S | F | P, Ent, Art, GP, ICT | 1.6 | AAA C5, P7 |
| Moses A | M | H, Ent, Art, Gp, Sub-math | 1.4 | ACA D2, C6 |
| David M | M | M, Econ, G, Gp, ICT | 1.0 | CCA C6, C6 |
| Paul D | M | P, Econ, M, Gp, ICT | 1.5 | AAE C4, P8 |
| Sarah G | F | H, Ent, G, Gp, Sub-mth | 1.3 | OAA D1, F9 |

**Questions**

(a) (i) Compute the combined weight for each student.
   (ii) Position them in order of performance based on merit.
(b) If the cut – off point was at 35.5, how many would be admitted on merit.
(c) What the challenges do students meet at the University
(d) Suggest ways of improving University Education in Uganda

**Suggested Answers**

(a) (i) Compute the combined weight for each student.

| Student | Point for affirmative action | O-level | Essential subject | Relevant subject | Desirable subject | Total |
|---|---|---|---|---|---|---|
| Florence S | 1 | 1.6 | 6 x 3 = 18 | 6 x 2 + 6 x 2 = 24 | 1 | 45.6 |
| Moses A | 0 | 1.4 | 4 x 3 = 12 | 6 x 2 + 6 x 2 = 24 | 1 | 38.4 |
| David M | 0 | 1.0 | 4 x 3 = 12 | 4 x 2 + 6 x 2 = 20 | 0 | 33.0 |
| Paul D | 0 | 1.5 | 6 x 3= 18 | 6 x 2 + 2 x 2 = 16 | 1 | 36.5 |
| Sarah G | 1 | 1.3 | 6 x 3 = 18 | 1 x 2 + 6 x 2 = 14 | 1 | 35.3 |

   (ii) Position them in order of performance based on merit.
      Florence S, Moses A, Paul D, Sarah G and David M
(b) If the cut – off point was at 35.5, how many would be admitted on merit.
   3 students (Florence S, Moses S and Paul D)
(c) What the challenges do students meet at the University
   - Lack of accommodation
   - High university
   - Poverty –lack of money for upkeep and data
   - Insecurity at hostel for students from night lectures
   - Theft at hostel
   - Lack of study materials and reference material
   - Pear pressure

- Congestion and overcrowding  hostel and class rooms
- Corruption
- Sexual harassments
- Immorality
- strikes

(d) Suggest ways of improving University Education in Uganda
- The fees should be affordable
- Give free computer  and data enable research
- Embrace technology to decongest
- Improve funding scheme and remuneration of University staff
- Create more accommodation for staff and students
- Provide security in and around the University
- Allow dialog with students to avoid students

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**Thanks**

**Dr. Bbosa Science**