# 1.0 INTRODUCTION

#### 1.1 GENERAL INFORMATION ON THE KENYA NATIONAL EXAMINATIONS COUNCIL

The Kenya National Examinations Council (KNEC) is a state corporation established through an Act of Parliament (CAP 225A, Law of Kenya - repealed in 2012 with KNEC Act No. 29 of 2012) to conduct school and post-school examinations within Kenya as it may consider desirable in the public interest and to award certificates or diplomas to successful candidates in such examinations.

- 1.1.1 THE COUNCIL VISION: To be a world class organization in assessment for quality education.
- 1.1.2 The Council Mission: To objectively assess learning achievements in order to safeguard and enhance globally acceptable educational certification standards.

#### 1.2 THE FUNCTIONS OF THE COUNCIL:

The 2012 KNEC Act provides that the functions of KNEC are to:

- 1.2.1 set and maintain examination standards;
- 1.2.2 develop national examination tests;
- 1.2.3 register candidates for the KNEC examinations;
- 1.2.4 conduct examinations, process them and release results;
- 1.2.5 award certificates and diplomas to successful candidates;
- 1.2.6 issue replacement certificates and diplomas;
- 1.2.7 conduct educational assessment research;
- 1.2.8 carry out equation of certificates and diplomas issued by other recognized examining boards;
- 1.2.9 conduct examinations on behalf of foreign examination boards.

### 1.3 EXAMINATIONS OFFERED BY THE COUNCIL

The Council develops, prints, distributes, administers, marks, processes examinations and awards certificates to successful candidates in the following examinations:-

### 1.3.1 SCHOOL EXAMINATIONS:

- 1.3.1.1 Kenya Certificate of Primary Education (KCPE);
- 1.3.1.2 Kenya Certificate of Secondary Education (KCSE).

# 1.3.2 TEACHER EDUCATION EXAMINATIONS:

- 1.3.2.1 Primary Teachers Education (PTE);
- 1.3.2.2 Teacher Certificate in Adult Education (TCAE);
- 1.3.2.3 Early Childhood Development and Education (ECDE);
- 1.3.2.4 Diploma in Teacher Education (DTE);
- 1.3.2.5 Special Needs Education (SNE).

### 1.3.3 BUSINESS EXAMINATIONS:

- 1.3.3.1 Business Education Single and Group Certificate (BES&GC);
- 1.3.3.2 Artisan, Certificate, Diploma and Higher Diploma in Business Technical Education Programmes (BTEP);
- 1.3.3.3 Certificate and Diploma in Business Technical and Vocational Education and Training (BTVET) programmes in areas such as Secretarial Studies; Sales and Marketing; Supply Chain Management; Business Management; Human Resource Management; Transport Management; Maritime Transport Operations and Logistics; Tourism and Tour Guiding Management; Information Studies and Information Communication Technology; Investment Management; Project Management and Petroleum Management.

#### 1.3.4 TECHNICAL EXAMINATIONS:

- 1.3.4.1 National Vocational Certificate in Education and Training (NVCET);
- 1.3.4.2 Artisan, Certificate, Diploma and Higher Diploma in Technical Education Programmes (TEP);
- 1.3.4.3 Certificate and Diploma in Technical and Vocational Education and Training (TVET) programmes in areas such as Food and Beverage Management; Textile Technology; Surveying; Road Construction; Water Technology; Civil and Highway Engineering; Architecture; Mechnical, Electrical and Eletronics Engineering; Marine Engineering; Aeronautical Engineering; Medical Engineering; Baking Technology; Pharmaceutical Technology; Medical Laboratory Technology; Chemical Engineering and Petroleum Geoscience.

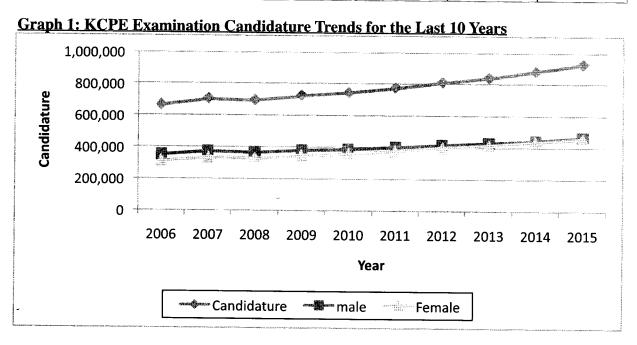
# 2.0 GENERAL INFORMATION ON THE YEAR 2015 KCPE EXAMINATION

# 2.1 KCPE EXAMINATION CANDIDATURE

In 2015, the candidates who registered for the KCPE examination were 927,789 compared to 880,486 candidates registered in 2014. This represents an increase of 47,303 (5.37%) candidates. The KCPE Examination candidatature for the last ten years is as shown in **Table 1**.

Table 1: KCPE Examination Candidature Trends for the Last 10 Years

| Total Candidature |               |                           |                     | lales                     | Females             |                        |  |
|-------------------|---------------|---------------------------|---------------------|---------------------------|---------------------|------------------------|--|
| Year              | Total No. Sat | Increase/<br>Decrease (%) | No. Sat             | Increase/<br>Decrease (%) | No. Sat             | Increase/ Decrease (%) |  |
| 2015              | 927,789       | 47,303<br>(5.37%)         | 467,904<br>(50.43%) | 24,646<br>(5.56%)         | 459,885<br>(49.57%) | 22,657<br>(5.18%)      |  |
| 2014              | 880,486       | 40,727<br>(4.85%)         | 443,258<br>(50.34%) | 16,889<br>(3.96%)         | 437,228<br>(49.66%) | 23,838<br>(5.77%)      |  |
| 2013              | 839,759       | 27,829<br>(3.43%)         | 426,369<br>(50.77%) | 10,749<br>(2.59%)         | 413,390<br>(49.23%) | 17,080<br>(4.31%)      |  |
| 2012              | 811,930       | 35,716<br>(4.60%)         | 415,620<br>(51.19%) | 14,806<br>(3.69%)         | 396,310<br>(48.81%) | 20,910<br>(5.57%)      |  |
| 2011              | 776,214       | 30,134<br>(4.04%)         | 400,814<br>(51.64%) | 12,593<br>(3.24%)         | 375,400<br>(48.36%) | 17,541<br>(4.90%)      |  |
| 2010              | 746,080       | 19,026<br>(2.62%)         | 388,221<br>(52.03%) | 6,621<br>(1.74%)          | 357,859<br>(47.97%) | 12,405<br>(3.59%)      |  |
| 2009              | 727,054       | 31,277<br>(4.50%)         | 381,600<br>(52.49%) | 14,475<br>(3.94%)         | 345,454<br>(47.51%) | 16,802<br>(5.11%)      |  |
| 2008              | 695,777       | -9,141<br>(-1.30%)        | 367,125<br>(52.76%) | -5,140<br>(-1.38%)        | 328,652<br>(47.24%) | -4,001<br>(-1.20%)     |  |
| 2007              | 704, 918      | 38,467<br>(5.77%)         | 372,265<br>(52.81%) | 19,483<br>(5.52%)         | 332,653<br>(47.19%) | 18,984<br>(6.05%)      |  |
| 2006              | 666,451       | -5,099<br>(-0.76%)        | 352,782<br>(52.93%) | -44<br>(-0.01%)           | 313,669<br>(47.07%) | -5,055<br>(-1.59%)     |  |



# Observations from Table 1 and graph 1

- 2.1.1 Candidature increased by **47,303** (**5.37**%) to **927,789** in 2015 KCPE examination compared to **880,486** candidates registered in 2014.
- 2.1.2 Female candidates increased by **22,657** (**5.18**%) while male candidates increased by **24,646** (**5.56**%) respectively.
- 2.1.3 For the last ten years, there have been more **male** than **female** candidates registering for the KCPE examination.

Table 2: 2015 & 2014 KCPE Examination Candidature by County

|                       |             | 2015        |            |            |             |             |            |           |
|-----------------------|-------------|-------------|------------|------------|-------------|-------------|------------|-----------|
| County Code &<br>Name | Total Cand. | Male<br>(%) | Female (%) | AB<br>(%)  | Total Cand. | Male<br>(%) | Female (%) | AB<br>(%) |
| 01                    | 8,242       | 4,156       | 4,086      | 90 (0.81%) | 8,305       | 4,150       | 4,155      | 78        |
| Taita Taveta          | (0.89%)     | (50.42%)    | (49.58%)   |            | (0.94%)     | (49.97%)    | (50.03%)   | (0.91%)   |
| 02                    | 15,170      | 8,003       | 7,167      | 95         | 15,224      | 7,852       | 7,372      | 80        |
| Kwale                 | (1.64%)     | (52.76%)    | (47.24%)   | (0.85%)    | (1.73%)     | (51.58%)    | (48.42%)   | (0.93%)   |
| 03                    | 16,243      | 8,198       | 8,045      | 190        | 16,028      | 8,139       | 7,889      | 163       |
| Mombasa               | (1.75%)     | (50.47%)    | (49.53%)   | (1.71%)    | (1.82%)     | (50.78%)    | (49.22%)   | (1.90%)   |
| 04                    | 29,096      | 15,133      | 13,963     | 538        | 28,645      | 14,755      | 13,890     | 455       |
| Kilifi                | (3.14%)     | (52.01%)    | (47.99%)   | (4.83%)    | (3.25%)     | (51.51%)    | (48.49%)   | (5.29%)   |
| 05                    | 4,007       | 2,264       | 1,743      | 57         | 3,774       | 2,074       | 1,700      | 65        |
| Tana River            | (0.43%)     | (56.50%)    | (43.50%)   | (0.51%)    | (0.43%)     | (54.95%)    | (45.05%)   | (0.76%)   |
| 06                    | 2,542       | 1,294       | 1,248      | 37         | 2,454       | 1258        | 1,196      | 33        |
| Lamu                  | (0.27%)     | (50.90%)    | (49.10%)   | (0.33%)    | (0.28%)     | (51.26%)    | (48.74%)   | (0.38%)   |
| 07                    | 19,098      | 9,416       | 9,682      | 377        | 18,689      | 9,233       | 9,456      | 328       |
| Nyandarua             | (2.06%)     | (49.30%)    | (50.70%)   | (3.39%)    | (2.12%)     | (49.40%)    | (50.60%)   | (3.82%)   |
| 08                    | 18,062      | 8,981       | 9,081      | 102        | 18,867      | 9,513       | 9,354      | 87        |
| Nyeri                 | (1.95%)     | (49.72%)    | (50.28%)   | (0.92%)    | (2.14%)     | (50.42%)    | (49.58%)   | (1.01%)   |
| 09                    | 12,111      | 5,956       | 6,155      | 281        | 12,305      | 6,008       | 6,297      | 210       |
| Kirinyaga             | (1.31%)     | (49.18%)    | (50.82%)   | (2.52%)    | (1.40%)     | (48.83%)    | (51.17%)   | (2.44%)   |
| 10                    | 25,191      | 12,716      | 12,475     | 259        | 23,640      | 11,884      | 11,756     | 226       |
| Murang'a              | (2.72%)     | (50.48%)    | (49.52%)   | (2.33%)    | (2.68%)     | (50.27%)    | (49.73%)   | (2.63%)   |
| 11                    | 37,319      | 18,395      | 18,924     | 459        | 38,373      | 19,083      | 19,290     | 358       |
| Kiambu                | (4.02%)     | (49.29%)    | (50.71%)   | (4.12%)    | (4.36%)     | (49.73%)    | (50.27%)   | (4.16%)   |
| 12                    | 31,914      | 15,842      | 16,072     | 290        | 30,936      | 15,280      | 15,656     | 213       |
| Machakos              | (3.44%)     | (49.64%)    | (50.36%)   | (2.61%)    | (3.51%)     | (49.39%)    | (50.61%)   | (2.48%)   |
| 13                    | 34,305      | 17,026      | 17,279     | 306        | 33,831      | 16,562      | 17,269     | 310       |
| Kitui                 | (3.70%)     | (49.63%)    | (50.37%)   | (2.75%)    | (3.84%)     | (48.96%)    | (51.04%)   | (3.61%)   |
| 14                    | 13,763      | 6,691       | 7,072      | 142        | 13,190      | 6,337       | 6,853      | 78        |
| Embu                  | (1.48%)     | (48.62%)    | (51.38%)   | (1.28%)    | (1.50%)     | (48.04%)    | (51.96%)   | (0.91%)   |
| 15                    | 28,917      | 13,169      | 15,748     | 509        | 27,605      | 12,740      | 14,865     | 378       |
| Meru                  | (3.12%)     | (45.54%)    | (54.46%)   | (4.57%)    | (3.14%)     | (46.15%)    | (53.85%)   | (4.40%)   |
| 16                    | 3,769       | 2,075       | 1,694      | 49         | 3,492       | 1,972       | 1,520      | 51        |
| Marsabit              | (0.41%)     | (55.05%)    | (44.95%)   | (0.44%)    | (0.40%)     | (56.47%)    | (43.53%)   | (0.59%)   |
| 17                    | 2,877       | 1,489       | 1,388      | 48         | 2,783       | 1,454       | 1,329      | 24        |
| Isiolo                | (0.31%)     | (51.76%)    | (48.24%)   | (0.43%)    | (0.32%)     | (52.25%)    | (47.75%)   | (0.28%)   |
| 18                    | 30,251      | 14,836      | 15,415     | 254        | 28,719      | 13,983      | 14,736     | 165       |
| Makueni               | (3.26%)     | (49.04%)    | (50.96%)   | (2.28%)    | (3.26%)     | (48.69%)    | (51.31%)   | (1.92%)   |

|                          |                   | 2015               |                    | AD             |                    |                    | AB                 |                |
|--------------------------|-------------------|--------------------|--------------------|----------------|--------------------|--------------------|--------------------|----------------|
| County Code &<br>Name    | Total Cand.       | Male (%)           | Female (%)         | AB<br>(%)      | Total Cand.<br>(%) | Male<br>(%)        | Female (%)         | (%)            |
| 9                        | 9,968             | 4,923              | 5,045              | 62             | 9,204              | 4,471              | 4,733              | 83             |
| Fharaka Nithi            | (1.07%)           | (49.39%)           | (50.61%)           | (0.56%)        | (1.05%)            | (48.58%)           | (51.42%)           | (0.97%)        |
| 20                       | 50,112            | 24,228             | 25,884             | 698            | 48,383             | 23,440             | 24,943             | 752            |
| Nairobi                  | (5.40%)           | (48.35%)           | (51.65%)           | (6.27%)        | (5.50%)            | (48.45%)           | (51.55%)           | (8.75%)        |
| L1                       | 9,042 (0.97%)     | 5,839              | 3,203              | 269            | 7,224              | 4,462              | 2,762              | 131            |
| Turkana                  |                   | (64.58%)           | (35.42%)           | (2.42%)        | (0.82%)            | (61.77%)           | (38.23%)           | (1.52%)        |
| 22                       | 3,591 (0.39%)     | 2,182              | 1,409              | 35             | 3,251              | 1,929              | 1,322              | 39             |
| Samburu                  |                   | (60.76%)           | (39.24%)           | (0.31%)        | (0.37%)            | (59.34%)           | (40.66%)           | (0.45%)        |
| 23                       | 22,416            | 11,078             | 11,339             | 331            | 20,293             | 9,800              | 10,493             | 154            |
| Frans Nzoia              | (2.42%)           | (49.42%)           | (50.58%)           | (2.97%)        | (2.30%)            | (48.29%)           | (51.71%)           | (1.79%)        |
| 24                       | 10,190 (1.10%)    | 5,527              | 4,663              | 134            | 9,706              | 5,287              | 4,419              | 102            |
| West Pokot               |                   | (54.24%)           | (45.76%)           | (1.20%)        | (1.10%)            | (54.47%)           | (45.53%)           | (1.19%)        |
| 25                       | 22,258 (2.40%)    | 11,169             | 11,089             | 116            | 21,051             | 10,606             | 10,445             | 68             |
| Bomet                    |                   | (50.18%)           | (49.82%)           | (1.04%)        | (2.39%)            | (50.38%)           | (49.62%)           | (0.79%)        |
| 26                       | 22,751            | 11,263             | 11,488             | 209            | 20,882             | 10,329             | 10,553             | 177            |
| Uasin Gishu              | (2.45%)           | (49.51%)           | (50.49%)           | (1.88%)        | (2.37%)            | (49.46%)           | (50.54%)           | (2.06%)        |
| 27                       | 46,892            | 23,433             | 23,459             | 640            | 44,810             | 22,220             | 22,590             | 479            |
| Nakuru                   | (5.05%)           | (49.97%)           | (50.03%)           | (5.75%)        | (5.09%)            | (49.59%)           | (50.41%)           | (5.57%)        |
| 28<br>Kericho            | 22,980 (2.48%)    | 11,333<br>(49.32%) | 11,647<br>(50.68%) | 104 (0.93%)    | 22,646<br>(2.57%)  | 11,229<br>(49.58%) | 11,417<br>(50.42%) | 161<br>(1.87%) |
| 29<br>Nandi              | 20,719 (2.23%)    | 10,257<br>(49.51%) | 10,462 (50,49%)    | 258<br>(2.32%) | 19,529<br>(2.22%)  | 9,539<br>(48.85%)  | 9,990<br>(51.15%)  | 179<br>(2.08%) |
| 30<br>Laikipia           | 10,893 (1.17%)    | 5,449<br>(50.30%)  | 5,414<br>(49.70%)  | 115 (1.03%)    | 10,540<br>(1.20%)  | 5,340<br>(50.66%)  | 5,200<br>(49.34%)  | 83<br>(0.97%)  |
| 31                       | 15,235            | 7,947              | 7,288              | 175            | 14,574             | 7,704              | 6,870              | 190            |
| Kajiado                  | (1.64%)           | (52.16%)           | (47.84%)           | (1.57%)        | (1.66%)            | (52.86%)           | (47.14%)           | (2.21%)        |
| 32                       | 17,656 (1.90%)    | 9,796              | 7,860              | 161            | 16,464             | 9,112              | 7,352              | 112            |
| Narok                    |                   | (55.48%)           | (44.52%)           | (1.45%)        | (1.87%)            | (55.34%)           | (44.66%)           | (1.30%)        |
| 33<br>Baringo            | 14,447 (1.56%)    | 7,324 (50.70%)     | 7,123<br>(49.30%)  | 83<br>(0.75%)  | 14,796<br>(1.68%)  | 7,505<br>(50.72%)  | 7,291<br>(49.28%)  | 91<br>(1.06%)  |
| 34<br>Elgeyo<br>Marakwet | 12,717<br>(1.37%) | 6,197<br>(48.73%)  | 6,520<br>(51.27%)  | 52<br>(0.47%)  | 11,494<br>(1.31%)  | 5,607<br>(48.78%)  | 5,887<br>(51.22%)  | 62<br>(0.72%)  |
| 35                       | 20,746 (2.24%)    | 10,497             | 10,249             | 239            | 17,484             | 8,952              | 8,532              | 123            |
| Busia                    |                   | (50.60%)           | (49.40%)           | (2.15%)        | (1.99%)            | (51.20%)           | (48.80%)           | (1.43%)        |
| 36                       | 44,572 (4.80%)    | 21,883             | 22,689             | 506            | 38,405             | 18,878             | 19,527             | 226            |
| Bungoma                  |                   | (49.10%)           | (50.90%)           | (4.55%)        | (4.36%)            | (49.16%)           | (50.84%)           | (2.63%)        |
| 37                       | 43,178 (4.65%)    | 20,771             | 22,407             | 484            | 40,592             | 19,272             | 21,320             | 380            |
| Kakamega                 |                   | (48.11%)           | (51.89%)           | (4.35%)        | (4.61%)            | (47.48%)           | (52.52%)           | (4.42%)        |
| 38                       | 16,179            | 7,459              | 8,720              | 213            | 14,029             | 6,519              | 7,510              | 113            |
| Vihiga                   | (1.74%)           | (46.10%)           | (53.90%)           | (1.91%)        | (1.59%)            | (46.47%)           | (53.53%)           | (1.31%         |
| 39                       | 23,906 (2.58%)    | 12,023             | 11,883             | 333            | 22,126             | 11,081             | 11,045             | 211            |
| Kisumu                   |                   | (50.29%)           | (49.71%)           | (2.99%)        | (2.51%)            | (50.08%)           | (49.92%)           | (2.45%         |
| 40                       | 28,862 (3.11%)    | 14,390             | 14,472             | 235            | 27,462             | 13,683             | 13,779             | 189            |
| Kisii                    |                   | (49.86%)           | (50.14%)           | (2.11%)        | (3.12%)            | (49.83%)           | (50.17%)           | (2.20%         |
| 41                       | 25,931            | 13,873             | 12,058             | 478            | 23,913             | 12,884             | 11,029             | 333 (3.87%     |
| Homa Bay                 | (2.79%)           | (53.50%)           | (46.50%)           | (4.30%)        | (2.72%)            | (53.88%)           | (46.12%)           |                |
| 42                       | 22,542            | 11,097             | 11,445             | 387            | 21,101             | 10,521             | 10,580             | 257            |
| Siaya                    | (2.43%)           | (49.23%)           |                    | (3.48%)        | (2.40%)            | (49.86%)           | (50.14%)           | (2.99%         |
| 43<br>Nyamira            | 14,688<br>(1.58%) | 7,330<br>(49.90%)  | 7,358              | 133 (1.20%)    | 13,994<br>(1.59%)  | 6956<br>(49.71%)   | 7,038<br>(50.29%)  | 110<br>(1.28%  |

| County Code & | unty Code & 2015     |                     |                     |               |                      |                     |                     |           |
|---------------|----------------------|---------------------|---------------------|---------------|----------------------|---------------------|---------------------|-----------|
| Name          | Total Cand.<br>(%)   | Male<br>(%)         | Female (%)          | <b>AB</b> (%) | Total Cand.<br>(%)   | Male<br>(%)         | Female (%)          | AB<br>(%) |
| 44            | 23,464               | 12,585              | 10,879              | 326           | 21,958               | 11,766              | 10,192              | 249       |
| Migori        | (2.53%)              | (53.64%)            | (46.36%)            | (2.93%)       | (2.49%)              | (53.58%)            | (46.42%)            | (2.90%)   |
| 45            | 7,926                | 5,214               | 2,712               | 179           | 7,995                | 5.381               | 2,614               | 149       |
| Garissa       | (0.85%)              | (65.73%)            | (34.22%)            | (1.61%)       | (0.91%)              | (67.30%)            | (32.70%)            | (1.73%)   |
| 46            | 4,374                | 2,796               | 1,578               | 42            | 4,067                | 2,737               | 1,330               | 34        |
| Wajir         | (0.47%)              | (63.92%)            | (36.08%)            | (0.38%)       | (0.46%)              | (67.30%)            | (32.70%)            | (0.40%)   |
| 47            | 5,034                | 3,369               | 1,665               | 36            | 323                  | 228                 | 95                  | 1 (0.50%) |
| Mandera       | (0.54%)              | (66.92%)            | (33.08%)            | (0.32%)       | (0.53%)              | (68.22%)            | (31.78%)            |           |
| 48            | 1,643                | 1,002               | 641                 | 13            | 989                  | 589                 | 400                 | 15        |
| Kauda         | (0.18%)              | (60.99%)            | (39.01%)            | (0.30)        | (0.11%)              | (59.56%)            | (40.44%)            | (0.17%)   |
| TOTAL         | 927,789<br>(100.00%) | 467,904<br>(50.43%) | 459,885<br>(49.57%) | 11,129        | 880,486<br>(100.00%) | 443,258<br>(50.34%) | 437,228<br>(49.66%) | 8,597     |

Table 3: KCPE Examination Candidates who sat for the Examination under Special Circumstances in 2015 & 2014 by County

| County Code and<br>Name | 4    |      | Low vision |      | Physically/<br>Mentally<br>Challenged |      | Hearing<br>impaired |      | Total |      |
|-------------------------|------|------|------------|------|---------------------------------------|------|---------------------|------|-------|------|
|                         | 2015 | 2014 | 2015       | 2014 | 2015                                  | 2014 | 2015                | 2014 | 2015  | 2014 |
| 1. Taita Taveta         | 00   | 00   | 10         | 08   | 03                                    | 02   | 04                  | 00   | 17    | 10   |
| 2. Kwale                | 01   | 00   | 04         | 05   | 01                                    | 04   | 24                  | 19   | 30    | 28   |
| 3. Mombasa              | 13   | 07   | 13         | 11   | 36                                    | 16   | 18                  | 12   | 80    | 46   |
| 4. Kilifi               | 00   | 00   | 08         | 05   | 08                                    | 10   | 50                  | 30   | 66    | 45   |
| 5. Tana River           | 03   | 00   | 09         | 04   | 15                                    | 00   | 04                  | 04   | 31    | 08   |
| 6. Lamu                 | 00   | 00   | 01         | 01   | 01                                    | 04   | 00                  | 04   | 02    | 09   |
| 7. Nyandarua            | 00   | 00   | 04         | 03   | 12                                    | 18   | 13                  | 15   | 29    | 36   |
| 8. Nyeri                | 00   | 00   | 05         | 04   | 04                                    | 03   | 12                  | 06   | 21    | 13   |
| 9. Kirinyaga            | 00   | 00   | 04         | 20   | 04                                    | 06   | 12                  | 12   | 20    | 38   |
| 10. Murang'a            | 00   | 00   | 05         | 07   | 12                                    | 08   | 17                  | 12   | 34    | 27   |
| 11. Kiambu              | 23   | 17   | 19         | 23   | 44                                    | 68   | 24                  | 19   | 110   | 127  |
| 12. Machakos            | 02   | 04   | 06         | 10   | 40                                    | 38   | 20                  | 20   | 68    | 72   |
| 13. Kitui               | 04   | 05   | 11         | 11   | 11                                    | 11   | 21                  | 26   | 47    | 53   |
| 14. Embu                | 00   | 00   | 07         | 04   | 07                                    | 08   | 14                  | 11   | 28    | 23   |
| 15. Meru                | 11   | 08   | 22         | 21   | 21                                    | 25   | 30                  | 27   | 84    | 81   |
| 16. Marsabit            | 00   | 00   | 07         | 01_  | 01                                    | 03   | 00                  | 00   | 08    | 04   |
| 17. Isiolo              | 03   | 00   | 04         | 01   | 01                                    | 00   | 10                  | 11   | 18    | 12   |
| 18. Makueni             | 00   | 00   | 09         | 13   | 35                                    | 22   | 11                  | 13   | 55    | 48   |
| 19. Tharaka Nithi       | 00   | 00   | 04         | 18   | 08                                    | 14   | 09                  | 00   | 21    | 32   |
| 20. Nairobi             | 01   | 00   | 14         | 27   | 25                                    | 25   | 15                  | 19   | 55    | 71   |
| 21. Turkana             | 01   | 00   | 04         | 09   | 02                                    | 01   | 09                  | 12   | 16    | 22   |
| 22. Samburu             | 00   | 01   | 14         | 04   | 04                                    | 02   | 01                  | 03   | 19    | 10   |

| County Code and<br>Name                       | Blind |      | Low vision |      | Physically/<br>Mentally<br>Challenged |      | Hearing<br>impaired |      | Total |       |
|---|-------|------|------------|------|---------------------------------------|------|---------------------|------|-------|-------|
| 1146116<br>11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2015  | 2014 | 2015       | 2014 | 2015                                  | 2014 | 2015                | 2014 | 2015  | 2014  |
| 23. Trans Nzoia                               | 02    | 04   | 09         | 15   | 16                                    | 14   | 01                  | 03   | 28    | 36    |
| 24. West Pokot                                | 07    | 14   | 41         | 13   | 06                                    | 06   | 00                  | 00   | 54    | 33    |
| 25. Bomet                                     | 00    | 02   | 07         | 14   | 19                                    | 12   | 01                  | 00   | 27    | 28    |
| 26. Uasin Gishu                               | 00    | 01   | 11         | 15   | 67                                    | 06   | 07                  | 09   | 85    | 31    |
| 27. Nakuru                                    | 03    | 00   | 11         | 10   | 08                                    | 16   | 21                  | 19   | 43    | 45    |
| 28. Kericho                                   | 01    | 03   | 15         | 09   | 10                                    | 11   | 26                  | 22   | 52    | 45    |
| 29. Nandi                                     | 00    | 00   | 04         | 05   | 11                                    | 09   | 12                  | 15   | 27    | 29    |
| 30. Laikipia                                  | 00    | 00   | 04         | 07   | 04                                    | 09   | 12                  | 08   | 20    | 24    |
| 31. Kajiado                                   | 03    | 00   | 08         | 12   | 06                                    | 08   | 09                  | 04   | 26    | 24    |
| 32. Narok                                     | 00    | 01   | 02         | 03   | 10                                    | 06   | 00                  | 01   | 12    | 11    |
| 33. Baringo                                   | 01    | 04   | 09         | 13   | 05                                    | 05   | 12                  | 15   | 27    | 37    |
| 34. Elgeyo Marakwet                           | 01    | 02   | 08         | 09   | 16                                    | 09   | 12                  | 08   | 37    | 28    |
| 35. Busia                                     | 00    | 00   | 04         | 11   | 04                                    | 10   | 17                  | 12   | 25    | 33    |
| 36. Bungoma                                   | 02    | 00   | 39         | 34   | 54                                    | 107  | 34                  | 24   | 129   | 165   |
| 37. Kakamega                                  | 00    | 01   | 09         | 25   | 39                                    | 59   | 60                  | 51   | 108   | 136   |
| 38. Vihiga                                    | 00    | 00   | 06         | 09   | 01                                    | 05   | 31                  | 28   | 38    | 42    |
| 39. Kisumu                                    | 10    | 09   | 40         | 42   | 28                                    | 36   | 30                  | 31   | 108   | 118   |
| 40. Kisii                                     | 01    | 01   | 04         | 09   | 12                                    | 09   | 20                  | 24   | 37    | 43    |
| 41. Homa Bay                                  | 00    | 00   | 37         | 46   | 37                                    | 19   | 26                  | 23   | 100   | 88    |
| 42. Siaya                                     | 10    | 08   | 31         | 35   | 11                                    | 04   | 23                  | 27   | 75    | 74    |
| 43. Nyamira                                   | 00    | 00   | 09         | 09   | 19                                    | 12   | 00                  | 01   | 28    | 22    |
| 44. Migori                                    | 00    | 00   | 23         | 38   | 21                                    | 10   | 39                  | 37   | 83    | 85    |
| 45. Garissa                                   | 01    | 02   | 24         | 33   | 18                                    | 21   | 16                  | 19   | 59    | 75    |
| 46. Wajir                                     | 01    | 00   | 06         | 02   | 03                                    | 00   | 08                  | 10   | 18    | 12    |
| 47. Mandera                                   | 01    | 02   | 07         | 12   | 05                                    | 04   | 00                  | 00   | 13    | 18    |
| Totals  | 105   | 96   | 552        | 640  | 726                                   | 695  | 735                 | 666  | 2,118 | 2,097 |

### 2.2 PAPERS OFFERED

In 2015 KCPE examination, candidates sat for nine (09) papers, namely; English Objective, English Composition, Kiswahili Objective, Kiswahili Insha, Kenyan Sign Language (KSL), Mathematics, Science, Social Studies and Religious Education (SSRE).

Table 4: Overall candidates' performance in 2015, 2014 and 2013 KCPE Examination per Subject/Paper and Gender

|                        | Mean Performance (%) |        |       |       |        |                 |       |        |       |  |  |  |  |
|------------------------|----------------------|--------|-------|-------|--------|-----------------|-------|--------|-------|--|--|--|--|
| Papers                 |                      | 2015   |       |       | 2014   | Alas to at sila | 2013  |        |       |  |  |  |  |
|                        | All                  | Female | Male  | All   | Female | Male            | All   | Female | Male  |  |  |  |  |
| English<br>Language    | 49.98                | 50.06  | 49.90 | 47.63 | 47.71  | 47.55           | 53.06 | 53.26  | 52.84 |  |  |  |  |
| English<br>Composition | 41.38                | 43.40  | 39.38 | 41.47 | 42.95  | 40.01           | 41.90 | 43.73  | 40.13 |  |  |  |  |
| Kiswahili Lugha        | 44.68                | 44.82  | 44.54 | 45.05 | 45.02  | 45.08           | 45.78 | 45.80  | 45.78 |  |  |  |  |
| Kiswahili<br>Insha     | 54.38                | 56.83  | 51.98 | 58.01 | 60.23  | 55.82           | 52.43 | 54.75  | 50.18 |  |  |  |  |
| Mathematics            | 56.16                | 54.08  | 58.22 | 52.04 | 50.18  | 53.88           | 52.86 | 51.44  | 54.22 |  |  |  |  |
| Science                | 55.48                | 53.24  | 57.68 | 66.01 | 63.10  | 68.88           | 61.82 | 59.26  | 64.30 |  |  |  |  |
| Social<br>Studies      | 49.98                | 47.45  | 52.47 | 52.50 | 50.07  | 54.89           | 54.75 | 52.50  | 56.93 |  |  |  |  |
| Religious<br>Education | 70.20                | 70.07  | 70.33 | 68.97 | 68.76  | 69.18           | 70.43 | 70.57  | 70.27 |  |  |  |  |

Table 5: KCPE Examination Candidates' Performance Statistics by Range of Marks (2015 and 2014)

| Category               | Year & Number of Candidates obtaining t<br>Range of Marks |                     |  |  |  |
|------------------------|---|---------------------|--|--|--|
| 2 7                    | 2015  | 2014                |  |  |  |
| Below Mean (001 – 249) | 472,568<br>(50.93%)                                       | 443,406<br>(50.36%) |  |  |  |
| Above Mean (250 – 500) | 455,221<br>(49.07%)                                       | 437,080<br>(49.64%) |  |  |  |

Table 6: 2015 KCPE Examination Candidates' Performance Statistics by Range of Marks

| Range of Marks | Number of Candidates | % of Total Candidates |
|----------------|----------------------|-----------------------|
| 401 - 500      | 7,560                | 0.81%                 |
| 301 - 400      | 201,986              | 21.77%                |
| 201 - 300      | 499,568              | 53.85%                |
| 101 - 200      | 215,614              | 23.24%                |
| 000 - 100      | 3,061                | 0.33%                 |

### 2.4 MARKING OF THE KCPE EXAMINATION

The objective papers in the KCPE examination are machine scored/marked while the compositions are manually marked by examiners. The KCPE examination is a norm-reference examination whereby candidates' scores are standardized to make the scores in each of the subjects have the same weighting.

# 2.4.1 Rationale behind the Standardization of Raw Marks to Standard Marks

Standardization of Raw Marks to Standard Marks in the KCPE examination is a process that involves adjusting the raw marks for each paper in the examination to allow for differences in difficulty and in the extent to which marks scatter (standard deviation). In this process of standardization, the difficulty among the papers is measured in terms of the mean raw marks scored by all candidates, while the differences in scatter are measured in terms of the Standard Deviation.

It entails converting the raw marks of each paper in the KCPE examination so that the mean and Standard Deviations of each of the papers are identical. For the KCPE examination, the mean expected of a normal distribution is **50** and the standard deviation is **15**. The formula used for converting the raw scores to standard score is as follows:

$$X_{SD} = 50 + \frac{\left[X - M\right]}{SD} x 15$$

Where  $X_{SD}$  = Standard score

X = raw mark obtained by the candidates

M = mean raw mark

SD = Standard deviation of the raw marks

## Example:

2.4.1.1 In a paper where the mean raw mark of all candidates is 20 and a Standard Deviation is 10, the standard score for a candidate whose raw marks is 25 would be:

$$50 + \frac{[25 - 20]}{10} x 15 \approx 58$$

2.4.1.2 In a paper where the mean raw mark of all candidates is 47 and a Standard Deviation is 10 the candidate whose raw marks is 25 would be:

$$50 + \frac{[25 - 47]}{10} x 15 \approx 17$$

#### 2.4.2 Standard Scores

Standard scores as can be seen from the illustrations above are a measure of relative performance and have the ability to tell us how a candidate has performed in comparison to the other candidates. They are

essential when results from different papers must be combined to give an overall total, as is the case in the KCPE examination, and are useful for comparing relative performance of a candidate from subject to subject or from year to year. Once the raw marks have been standardized, the cut-off marks for all grades from Grade A to Grade E are identical for all subjects and are therefore maintained at the same level from year to year. The standardized scores are then used for reporting candidates' performance and for selection purposes. When the scores are standardized the relative positions of the candidates remain unchanged; the top candidate in each subject still remains at the top.

Standard scores always convey the exact information as to the position of a candidate relative to other candidates sitting the same examination.

Standard scores are essential if marks from several papers are to be added to give a total score, and it is desired that each paper should contribute equally to the total score.

# 2.5 THE OBJECTIVE OF THE KCPE EXAMINATION REPORT

The objective of the KCPE Examination report is to form a dialogue between KNEC and the relevant stakeholders in order to enhance candidates' enrolment and performance by providing the indicators of enrolment as well as performance so that the relevant stakeholders can review the targets. The KCPE examination report also informs teachers and prospective candidates of areas of weaknesses for purposes of improvement. It also includes the question papers that candidates sat for in the year 2015 KCPE examination.

This year's report:

- 2.5.1 gives a detailed analysis of candidates' performance in each of the KCPE examination papers;
- 2.5.2 provides the classroom teachers with information about pupils' weaknesses in the course content;
- 2.5.3 provides suggestions on better teaching and learning methods that can enhance performance;
- 2.5.4 gives teachers advice on how they can re-orientate their teaching strategies to enhance pupils' learning and performance.

The year 2015 KCPE examination report therefore highlights those items in which candidates performed poorly and also advances possible reasons for the poor performance. It is hoped that analysis and discussion of difficult items will be helpful to the teachers and the comments given will continue to enrich their teaching methodology so as to enhance students' learning and hence improve their performance.

While the Council presents analysis and discussions of only the poorly performed questions, it is hoped that teachers will analyse all the questions at subject level to assess both the content and the cognitive skills tested for the benefit of teaching their future candidates better.

In determining the performance of candidates, *item analysis* is used. Item analysis involves determining the *Facility Index (f-index)* and *Discrimination Index (d-Index)* of each question in the paper for the chosen sample population of candidates. The facility index refers to the relative measure of *difficulty or ease* of a question based on the percentage of candidates obtaining a correct response to a question. The discrimination index on the other hand indicates how successfully a question can sort out the abilities into different categories ranging from the highest achiever to the lowest one. A good question is considered to be one that has a *Facility Index* of between 30% and 80%. Any question therefore with a Facility Index of below 30% is considered to have been found difficult by the candidates and one *above 80%* 

is considered to have been found easy by the candidates. This is the criteria used by the *Item Analysis* programme to select questions with the low facility indices in a paper for discussion in the KCPE examination report.

Sometimes questions that have a *facility index of 40%* are considered for discussion. Candidates find a question difficult usually because of inadequate coverage of the syllabus content, which makes the candidates unable to tackle the question except by guessing. Candidates will also find it difficult to handle questions that require *higher order thinking abilities* like questions involving *problem solving*, *evaluation*, *application* etc. unless they have been taught how to handle such questions.

In the discussions of the questions that candidates performed poorly, a response pattern is given for every question showing the percentage of candidates from the sample population choosing the options to the question. An *asterisk* (\*) on an option denotes the correct response to the question and the *Facility Index* of the item is indicated below the correct response. Also under the response pattern, information on the mean mark of candidates in other questions is given. This is the average score on the rest of the items for each group of candidates choosing an option and it is important as it shows the way each group of candidates choosing a specific option scored in the other questions of the paper.

We encourage teachers to offer any informed comments and/or suggestions that can be considered for inclusion in future issues of the KCPE Examination Report to make them more enriching.

Comments and/or suggestions may be forwarded to us in writing or by completion of the questionnaire found at the end of this report. We would like to thank all those who have given us suggestions and/or comments before on our previous issues of the KCPE Examination Reports.

The Council would like to remind schools and the general public that all past and current issues of the KCPE Examination Report can be purchased from the Kenya National Examinations Council **Mitihani Bookshop** situated on the ground floor of the National Housing Corporation Building. The cost and postage charges of the KCPE Report will be given on request.

### 2.6 APPRECIATION

Finally, I wish therefore to commend the efforts of P. Ochich, G. Ingolo, J. Sabari, J. Mutwiri, J. Kiviu, G. Itute, K. Iman, J. Kariuki, H. Bundu, A. Matei, S. Mundi, A. Amaunda, L. Ronoh, E. Ngota, G. Mwenja, ICT, Test Development, Reprographics & Manuscript Departments, Research & Quality Assurance Division and the entire Senior Management of the Council for their contributions in one way or the other to the preparation and publication of this booklet.

DR. JOSEPH M. KIVILU
CHIEF EXECUTIVE OFFICER