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| LABORATOR | | | E | - 2 | COUNTY. | | Can | didate' | s Signa | ture: | |
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| Oct./Nov. 2013 Time: 3 hours | | | | | WITT. | 2 | D. | | | | |
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| NSTRUCTIO | ONS TO | O CAN | DIDAT | ES | | | | - 12 | | 14 DE | C 2013 |
| Sign and write Your should ha This paper con. Answer ALL qu in this question Each question i Maximum mark Do NOT remov | ve scien sists of uestion paper, in secti ks for e ve any p | ntific co TWO s s in sec on A co ach par pages fr | ilculato sections tion A c urries 4 et of a q com this | r for the A and and any marks bookletions in | is exam B. THRE while e are in Englis | EE ques ach que dicated | tions fi estion i | rom sec n sectio | tion B | | |
| SECTION A | | | | | | | | | | P40 | |
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
| Candidate's Score | | | | | | | | | | | |
| | | | _ | | | | | | | | |
| SECTION B | | | | | | | | | | | |
| Owner | | 10 | 12 | - 11 | | TO | FAL | | | ſ | |
| Question | 11 | 12 | 13 | 14 | 15 | 0.4000 | DRE | Grand | | | |
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This paper consists of 16 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Score

SECTION A (40 marks)

Answer ALL questions in this section in the spaces provided.

| State | two advantages and disadvantages of Terrazzo floor finish in a laboratory. | (4 marks) |
|-------|--|-----------|
| | | |
| | | |
| Expla | tin: | |
| (a) | How to dispose half a litre of concentrated sulphuric acid; | (3 marks) |
| _ | | |
| | | |
| _ | COLL | |
| | Met. | |
| (b) | The storage of sodium in laboratory. | (1 mark) |
| (a) | Name the universal colour code for the following services: | |
| | (i) vacuum; | |
| | (ii) fire extinguishers. | /Laurell |
| | | (1 mark) |

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| | (b) | For each of the following fire extinguishers, state the fire class they are suited how they operate. | for and (3 marks) |
|--------|----------|--|----------------------|
| | | (i) soda-acid | |
| | | (ii) foam | |
| 4. | Expla | tin mounting of an analytical balance and how vibrations are eliminated. | (4 marks) |
| | | 600 | |
| 5. | Expla | in: | |
| | (a) | THE RESERVE AS A SECOND RE | (2 marks) |
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| (b) how strain is removed from a glass apparatus. | (2 mar |
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| | |
| Draw a labelled diagram of a vessel suited for storage of liquid helium. | (4 ma |
| Maw a labelled diagram of a vesser stated for storage of in- | |
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| CO. | (3 ma |
| (a) Describe intravenous injection in a rabbit. | (2 1188 |
| 257 | |
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| | |
| (b) Name two methods of permanent identification of rats in an animal house. | (1 m |
| (b) Name two methods of permanent identification of rats in an animal house. | (1) |
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| | ria for assessing goals in planning. | (4 mark |
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| Distinguish bet | tween extrinsic and intrinsic rewards for motivation giving | suitable examples. |
| | | (4 mark |
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| REE | | |
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| | | |
| Differentiate be | etween recruitment and selection in staffing. | (4 mark |
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| Differentiate be | etween recruitment and selection in staffing. | (4 mark |

SECTION B (60 marks)

Answer any THREE questions from this section in the spaces provided after question 15.

| 11. | (a) | Draw a labelled diagram to illustrate a sink trap. | (6 marks) |
|-----|-------|---|------------------------|
| | (b) | Outline the various methods of unblocking a blocked sink. | (14 marks) |
| 12. | (a) | Explain how the following are prepared in a laboratory: | |
| | | (i) demineralized water; | (8 marks) |
| | | (ii) buffered water. | (7 marks) |
| | (b) | Describe the chemical quality control for distilled water in a laboratory. | (5 marks) |
| 13. | (a) | Describe first aid treatment for a minor burn. | (5 marks) |
| | (b) | A student on a mouth pipetting experiment accidentally swallow an alkali, first aid treatment that should be given. | Describe the (5 marks) |
| | (c) | Outline the cleaning of slides soiled with dried immersion oil. | (10 marks) |
| 14. | (a) | Explain why workers join trade unions. | (6 marks) |
| | (b) | Explain conditions when collective bargaining is not in good faith. | (14 marks) |
| 15. | Diffe | rentiate between: | |
| | (a) | mechanistic and organic organizational structure designs; | (10 marks) |
| | (b) | Authority and power. | (10 marks) |
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