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| 1. | (a) | Outline seven teachings about human beings from the Biblical creation account | ts. (7 marks) |
|----|-----|---|--------------------------|
| | (b) | Give seven similarities between traditional African view of evil and the Biblica of sin. | al concept (7 marks) |
| | (c) | State six ways in which Christians in Kenya help to restore a member who has into sin. | fallen (6 marks) |
| 2. | (a) | Give five reasons why the Israelites broke the covenant they had made with Go Mount Sinai (Exodus 32:1-35). | od while at (5 marks) |
| | (b) | Identify eight conditions that God gave to the Israelites during the renewal of t covenant (Exodus 34:1-35). | he Sinai (8 marks) |
| | (c) | State the importance of the Ten Commandments to Christians. | (7 marks) |
| 3. | (a) | Identify seven characteristics of the Canaanite religion. | (7 marks) |
| | (b) | State the challenges faced by Elijah during his prophetic ministry in Israel. | (6 marks) |
| | (c) | Give seven ways in which Christians fight corruption in Kenya today. | (7 marks) |
| 4. | (a) | Explain the vision of the basket of summer fruits shown to Prophet Amos by G (Amos 8:1-3). | od. (6 marks) |
| | (b) | Outline the teaching of Prophet Amos on the day of the Lord. | (7 marks) |
| | (c) | State seven ways in which Christians help the church leaders to perform their c effectively. | luties (7 marks) |
| 5. | (a) | State the evils condemned by Prophet Jeremiah during the temple sermon. | (6 marks) |
| | (b) | Explain four symbolic acts related to hope and restoration as demonstrated by Jeremiah. | Prophet (8 marks) |
| | (c) | Give six lessons Christians learn from Prophet Jeremiah's temple sermon. | (6 marks) |
| 6. | (a) | Outline six roles of priests in traditional African communities. | (6 marks) |
| | (b) | Explain the importance of kinship ties in traditional African communities. | (8 marks) |
| | (c) | Identify six factors that have affected the kinship ties in the traditional African communities. | (6 marks) |

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| 1. | Outl | line four features of labour as a factor of production. | (4 marks) |
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| | (a) | | ••••• |
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| 2. | Outli deve | ne four ways in which peace within a country may encourage entrepreneurial | (4 marks) |
| | (a) | lopment. | |
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| 3. | State | four duties of the office clerk. | (4 marks) |
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4. The document shown below is used in home trade.

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| 11. | Outli | ine four roles of transport in the facilitation of trade. (4 marks) |
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| 10 | Ctata | three circumstances under which firms would form a cartel. (3 marks) |
| 12. | | three circumstances under which firms would form a cartel. (3 marks) |
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| 13. | Outli whol | ne four conditions under which a manufacturer would distribute his products through the esaler. (4 marks) |
| | (a) | \sim |
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| | (c) | |
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| | (d) | |
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| 14. | State | four reasons for maintaining a cash book in a business enterprise. (4 marks) |
|-----|----------------|--|
| | (a) | |
| | (b) | |
| | (c) | |
| | (d) | |
| 15. | | t from the forces of demand and supply, list four other ways in which the price of a product be set. (4 marks) |
| | (a) | |
| | (b) | |
| | (c) | |
| | (d) | |
| 16. | Outlin with | ne four factors that would make two people taking the same type of life assurance policy the same insurer to pay different amounts of premium. (4 marks) |
| | (a) | |
| | (b) | |
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| 17. | State | e the line of communication involved in each of the following: (4 mark | (s) |
|-----|-------|---|--------------|
| | (a) | The Manager of ABC Company Ltd talking to the Manager of XYZ Company Ltd. | |
| | (b) | A secretary asking for time off from her boss. | |
| | (c) | The Production Manager giving instructions to the Secretary of the Sales Manager. | |
| | (d) | The Store Keeper giving explanations to the Chief Accountant. | ••• |
| | | | •• |
| 18. | List | four books of original entry that may be used to record transactions affecting stock. (4 marks) | s) |
| | (a) | witee | •• |
| | (b) | NN . | •• |
| | (c) | in the second | |
| | (d) | ANC ANC | •• |
| 19. | High | light four external economies of scale that a firm may get when operating on a large scale (4 marks | |
| | (a) | light four external economies of scale that a firm may get when operating on a large scale (4 marks | |
| | | | •• |
| | (b) | | |
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20. The following information was extracted from the books of Leila Traders on 31st July 2016:

| Details | Sh |
|---------------------|--------|
| Capital | 90,000 |
| Fixed Assets | 80,000 |
| Cash in hand | 20,000 |
| Current liabilities | 20,000 |
| Stock | 20,000 |
| Net profit | 15,000 |
| Drawings | 5,000 |

Calculate:

| (a) | Capital owned | com | (2 marks) |
|-----|--|---------|-----------|
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| (b) | Acid test ratio | | (2 marks) |
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Watamu Enterprises had the following assets and liabilities on 1st May 2014: 21.

| Particulars | Sh |
|--------------|-----------|
| Equipment | 800,000 |
| Capital | 1,200,000 |
| Creditors | 100,000 |
| Debtors | 200,000 |
| Stock | 250,000 |
| Cash at bank | 50,000 |

The following transactions took place on 2nd May 2014:

(i) Bought goods for re-sale Sh 150,000 on credit

- A debtor paid Sh100,000 by cheque (ii)
- Sold the equipment for Sh900,000 cash (iii)

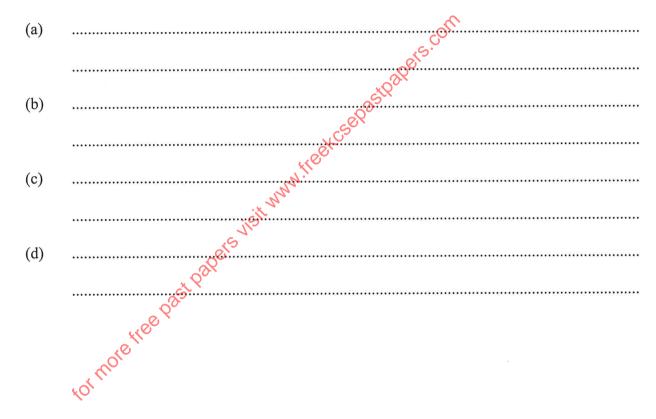
| (ii) (iii) | A debtor paid Sh 100,000 by cheque Sold the equipment for Sh 900,000 cash | |
|---------------|---|-----------|
| Requ | Sold the equipment for Sh900,000 cash ired: Prepare Watamu Enterprises balance sheet after the above transactions. | (5 marks) |
| | Refs Visit www.treekcsepestica. | |
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22. Outline four merits of indirect taxes. (4 marks) (a) (b) (c) (d) **.** Highlight four ways in which the technological environment may improve business 23. performance. (4 marks) (a) (b) (c) (d)

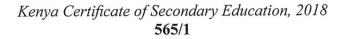
24. Identify the types of ledger in which each of the following accounts would be found: (4 marks)

| | Account | Type of ledger | |
|---|-------------------|----------------|--|
| a | Otieno (buyer) | | |
| b | Carriage outwards | | |
| с | Mueni (supplier) | | |
| d | Cash at bank | | |

25. Highlight four ways in which the introduction of money helped eliminate problems faced in barter trade. (4 marks)



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| Candidate | e's Sig | gnatu | re | | | | Date | | | | | | | | |
| (b) Sign a (c) This p (d) Answe (e) Show below (f) Marks (g) Non-pi where (h) This p (i) Candid and th | vour na nd writ aper co r all th all the each o may b rogram stated aper co dates s at no o | me an e the consists e ques steps guestic e giver mable other onsists chould guestic | d inde date of tof tw tions i in you in for co silent wise. of 18 check ons are | x num exam o sect in Sec r calc orrect electric electric the q e miss | ination ions; \$ tion I ulation workin onic ca onic ca ed pag uestio ing. | n in thi Section and or ns, giv g ever alculat ges. n fape | e spac n I anco hly five ing yo n if the ors an er to a Englis | es prod Sect quest ur ans answ d KNE scerta | ovided ion II. tions fr wers a er is w C Matl | above rom Sat eac rong. hemat t all ti | ection h stag ical ta | e in th bles m | nay be | used, | ovided except |
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SECTION I (50 marks)

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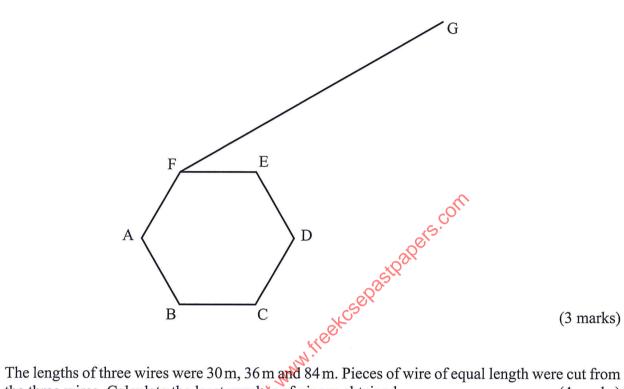
Answer all the questions in this section in the spaces provided.

1. Without using a calculator, evaluate:
$$\frac{2\frac{1}{3}-1\frac{1}{5}of 2}{\frac{1}{4}-(-\frac{1}{2})^3}$$
 (3 marks)
2. Given that $6^{2n-3} = 7776$, find the value of *n*. Better the state of *n*. (3 marks)
(3 marks)
3. The base of a right pyramid is a rectangle of length 80 cm and width 60 cm. Each slant edge of the

3. The base of a right pyramid is a rectangle of length 80 cm and width 60 cm. Each slant edge of the pyramid is 130 cm. Calculate the volume of the pyramid. (3 marks)

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- 4. In the figure below ABCDEF is a uniform cross section of a solid. Given that FG is one of the visible edges of the solid, complete the sketch showing the hidden edges with broken lines.



5. the three wires. Calculate the least number of pieces obtained. (4 marks)

A two digit number is such that, the sum of its digits is 13. When the digits are interchanged, the 6. original number is increased by 9. Find the original number. (4 marks)

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7. (a) Using a ruler and a pair of compasses only, construct a quadrilateral PQRS in which $PQ = 5 \text{ cm}, PS = 3 \text{ cm}, QR = 4 \text{ cm}, \angle PQR = 135^{\circ} \text{ and } \angle SPQ$ is a right angle.

4

(2 marks)

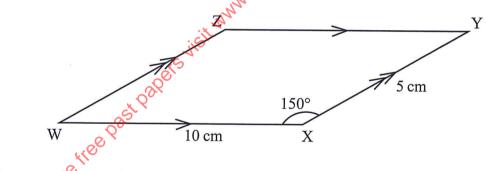
- (b) The quadrilateral PQRS represents a plot of land drawn to a scale of 1:4000. Determine the actual length of RS in metres. (2 marks)
- 8. Given that $\mathbf{OA} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$ and $\mathbf{OB} = \begin{pmatrix} -4 \\ 5 \end{pmatrix}$. Find the mid point M of AB.

(2 marks)

9. Two towns R and S are 245 km apart. A bus travelling at an average speed of 60 km/h left town R for town S at 8.00 a.m. A truck left town S for town R at 9.00 a.m and met with the bus at 11.00 a.m. Determine the average speed of the truck. (4 marks)

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10. In the parallelogram WXYZ below, WX = 90 cm, XY = 5 cm and $\angle WXY = 150^{\circ}$.



Calculate the area of the parallelogram.

(3 marks)

1. Without using mathematical tables or a calculator, evaluate
$$\frac{\sin 30^{\circ} - \sin 60^{\circ}}{\tan 60^{\circ}}$$
. (3 marks)
12. Use matrix method to solve:
 $\frac{5x + 3y = 35}{3x - 4y = -8}$. (3 marks)
13. Expand and simplify.
 $(2x + 1)^{2} + (x - 1)(x - 3)$, there evaluate
 $(2x + 1)^{2} + (x - 1)(x - 3)$, there evaluate
 $(2 - 1)^{2} + (x - 1)(x - 3)$, there evaluate
 $\frac{\sqrt[3]{3025}}{0.0247}$, correct to 2 decimal places. (3 marks)

15. A Kenyan businessman intended to buy goods worth US dollar 20000 from South Africa. Calculate the value of the goods to the nearest South Africa (S.A) Rand given that, 1 US dollar = Ksh 101.9378 and 1 S.A Rand = Ksh 7.6326. (3 marks)

16. A photograph print measuring 24 cm by 15 cm is enclosed in a frame. A uniform space of width x cm is left in between the edges of the photograph and the frame. If the area of the space is 270 cm², find the value of x. (3 marks)

SECTION II (50 marks)

8

Answer any five questions from this section in the spaces provided.

- 17. A school water tank is in the shape of a frustum of a cone. The height of the tank is 7.2 m and the top and bottom radii are 6m and 12m respectively.
 - Calculate the area of the curved surface of the tank, correct to 2 decimal places. (a)

(4 marks)

Find the capacity of the tank, in littles, correct to the nearest litre. (b)

(3 marks)

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- Two vertices of a triangle ABC are A (3,6) and B (7,12). 18.
 - (a) Find the equation of line AB.

(3 marks)

- ,ers.com r of lin of lin note tree past papers visit www.treekcsepa AC (b) Find the equation of the perpendicular bisector of line AB. (4 marks)
- Given that AC is perpendicular to AB and the equation of line BC is y = -5x + 47, (c) find the co-ordinates of C. (3 marks)

The distance covered by a moving particle through point O is given by the equation, 19. $s = t^3 - 15t^2 + 63t - 10.$

Find:

distance covered when t = 2; (a)

(b)

the time when the participle is momentarily at rest; tor more tree past paper (c)

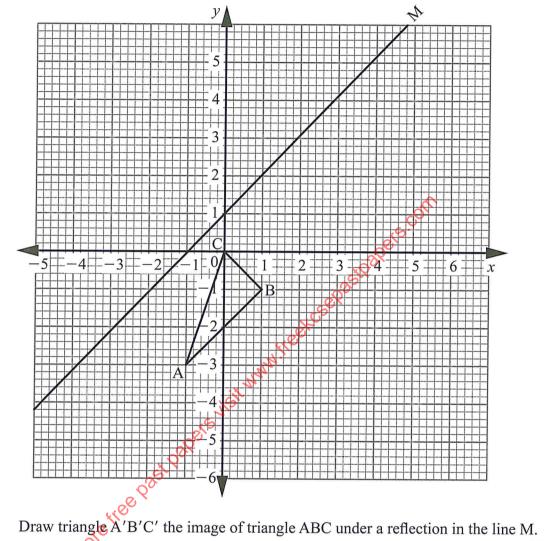
(3 marks)

(2 marks)

(3 marks)

(d) the acceleration when t = 5. (2 marks)

20. The diagram below shows triangle ABC with vertices A(-1, -3), B(1, -1) and C(0,0), and line M.



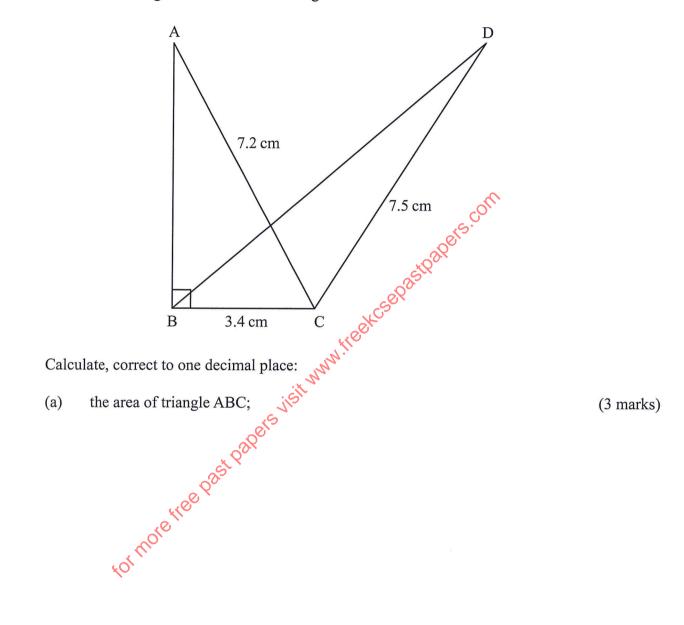
(a) Draw triangle Å'B'C' the image of triangle ABC under a reflection in the line M. (2 marks)

Triangle A"B"C" is the image of triangle A'B'C' under a transformation represented by the (b) matrix $\mathbf{T} = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}$ Draw triangle A"B"C" (3 marks) (i) (ii) Describe fully the transformation represented by matrix T. (3 marks) Find the area of triangle A'B'C' hence find area of triangle A"B"C". (2 marks)

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21. The figure below shows two triangles, ABC and BCD with a common base BC = 3.4 cm. AC = 7.2 cm, CD = 7.5 cm and $\angle ABC = 90^{\circ}$. The area of triangle ABC = Area of triangle BCD.

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(b) the size of \angle BCD;

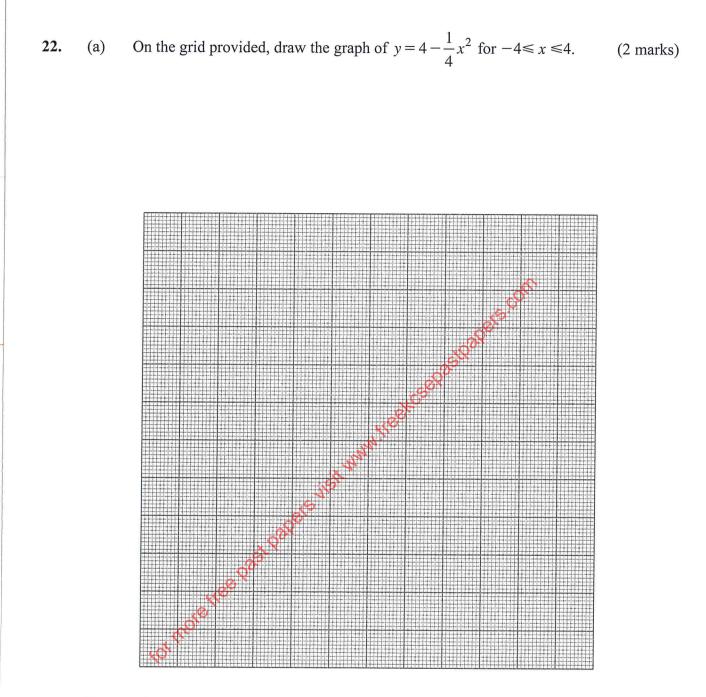
(c) the length of BD;

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(2 marks)

(3 marks)

(2 marks)



(b) Using trapezium rule, with 8 strips, estimate the area bounded by the curve and the *x*-axis. (3 marks)

- (c) Find the area estimated in part (b) above by integration. (3 marks)
- (d) Calculate the percentage error in estimating the area using trapezium rule. (2 marks)

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- Three business partners Abila, Bwire and Chirchir contributed Ksh120000, Ksh180000 and Ksh240000 respectively, to boost their business. They agreed to put 20% of the profit accrued back into the business and to use 35% of the profits for running the business (official operations). The remainder was to be shared among the business partners in the ratio of their contribution. At
- (a) Calculate the amount:

23.

(i) put back into the business; (2 marks)

the end of the year, a gross profit of Ksh 225 000 was realised.

Calculate the amount of profit each partner got. (b)

(4 marks)

(1 mark)

thee past papers visit www. If the amount put back into the business was added to individuals's shares proportionately (c) to their initial contribution, find the amount of Chirchir's new shares. (3 marks) 50

18 The equation of a curve is given as $y = \frac{1}{3}x^3 - 4x + 5$. Determine: 24. the value of y when x = 3; (2 marks) (a) .rve at x = 3; (c) the turning points of the curve and their nature. (c) the turning points of the curve and their nature. (3 marks) (5 marks)

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|--|--|-----------------------------------|---|--------------------------|-----------|
| Name Candidate's Sign | | | ex Number | | |
| (a) Write your name (b) Sign and write (c) This paper cons (d) Answer all the section C. (e) Answers to all this paper cons (f) This paper cons (g) Do not remove (h) Candidates show indicated and the section th | (b) Sign and write the date of examination in the spaces provided above. (c) This paper consists of three sections: A, B and C. (d) Answer all the questions in section A, three questions from section B and two questions from section C. (e) Answers to all the questions must be written in the space provided at the end of question 24. (f) This paper consists of 20 printed pages. (g) Do not remove any pages from this booklet. (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing. | | | | |
| e e e e e e e e e e e e e e e e e e e | Section | Question | er's Use Only Maximum Score | Candidate's Score | |
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SECTION A (25 marks)

2

Answer all the questions in this section in the space provided at the end of question 24.

- 1. Identify **one** type of early manuscript which is likely to contain information on History and Government. (1 mark)
- 2. Give two developments which were made by Homo erectus that improved his way of life.

(2 marks)

(2 marks)

3. State one similar factor which contributed to the development of early agriculture in Mesopotamia and Egypt. (1 mark)

4. State two advantages of using animal transport.

- 5. Outline two factors which facilitated the spread of iron working technology in Africa during the ancient times. (2 marks)
- 6. Identify two features of the direct rule as applied by the British in Zimbabwe. (2 marks)
- 7. Give the main reason why the European countries formed alliances before the outbreak of the First World War. (1 mark)

8. State the main reason why countries establish diplomatic relations. (1 mark)

- 9. Identify one economic factor which contributed to the collapse of the East African Community in 1977. (1 mark)
- 10. Name the **two** financial institutions which were established by the United Nations after the Second World War. (2 marks)
- 11. State two ways in which poverty has undermined economic development in Tanzania since independence. (2 marks)
- 12. Give one function of the Odwira festival among the Asante during the 19th Century. (1 mark)

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| 13. | State | e two social factors which caused the Majimaji rebellion. | (2 marks) |
| 14. | State | e two ways in which the Royal Fire was important in the Mwene Mutapa Kingo | lom. (2 marks) |
| 15. | Give Afrio | e one function of the Court of Justice of the Common Market for Eastern and S ca. | outhern (1 mark) |
| 16. | State | e one way in which Angola was affected by the Cold War. | (1 mark) |
| 17. | Nam | te the country in Africa which was created to settle freed slaves. | (1 mark) |
| | | SECTION B (45 marks) | |
| | Answe | r any three questions from this section in the space provided at the end of ques | tion 24. |
| 18. | (a) | Highlight five changes which marked the Agrarian Revolution in Britain. | (5 marks) |
| | (b) | Discuss five effects of the Agrarian Revolution in the United States of Amer | ica. (10 marks) |
| 19. | (a) | Identify five effects of scientific inventions on medicine. | (5 marks) |
| | (b) | Describe five factors which have influenced industrialisation in India. | (10 marks) |
| 20. | (a) | State five functions of the ancient city of Athens. | (5 marks) |
| | (b) | Describe five challenges experienced in the city of Johannesburg. | (10 marks) |
| 21. | (a) | State five factors which influenced the British to use indirect rule in Northern | n Nigeria. (5 marks) |
| | (b) | Explain five challenges which were experienced in the implementation of ass policy in Senegal. | similation (10 marks) |

SECTION C (30 marks)

| | Answe | r any two questions from this section in the space provided at the end of question 24. | | | |
|-------|-------|--|--|--|--|
| 22. | (a) | State three external factors which speeded up the growth of African nationalism during the struggle for independence. (3 marks) | | | |
| | (b) | Explain six challenges which were faced by the nationalists in South Africa during the apartheid rule. (12 marks) | | | |
| 23. | (a) | State three ways in which terrorism is a threat to international peace. (3 marks) | | | |
| | (b) | Describe six achievements of the Non-Aligned Movement since its formation. (12 marks) | | | |
| 24. | (a) | Identify three types of Federal Courts in the United States of America. (3 marks) | | | |
| | (b) | Explain six responsibilities of the Federal covernment of the United States of America. (12 marks) | | | |
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| Name Index Number Candidate's Signature Date Instructions to candidates Index number in the spaces provided above. (a) Write your name and index number in the spaces provided above. Instructions to candidates (b) Sign and write the date of examination in the spaces provided above. Instructions is Section A. (c) Answer question 16 and any other three questions from section B. Instructions is Section A. (c) Answer question 16 and any other three questions from section B. Instruction in Section A. (c) Answer question 16 and any other three questions from section B. Instruction in Section A. (c) Answer question in Section A. Instruction in Section A. (c) Answer question 16 and any other three questions from section B. Instruction paper consists of 16 printed pages. (f) Do not remove any pages from this booklet. Instruction paper consists of 16 printed pages. (f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are printed as indicated and that no questions in English. (j) Candidates should answer the question in English. Instruction Candidate's Score (j) Candidates should answer the question in English. Instruction Candidate's Score (j) B 15 Instruction Score (j) A 15 | | | | R STUD ORY) — 2½ hou | | – Paper |
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| Total Score | (f) All answers sho (g) This paper cons (h) Do not remove a (i) Candidates sho are printed as in | sists of 16 print any pages from uld check the o ndicated and th uld answer the Section A | ed pages. this booklet. question paper to pat no questions in Engl questions in Engl For Examine Question 1–15 | er's Use Only Maximum Score 40 15 15 15 15 15 15 15 15 15 15 15 15 15 | 2013 2018 b 2018 20 b 2018 20 b 18 2018 b 2018 20 b 2018 20 c 2018 | |

SECTION A (40 marks)

Answer all questions in this section.

| | 1. | State two reasons for the increased use of laptop computers in government offices. (2 mar | rks) |
|----------------|----|--|-------|
| | | | ••••• |
| | | | |
| | | | |
| | | | |
| | | | |
| 181 | | Jon Stranger | ••••• |
| | 2. | Computer network technicians prefer to use command line based operating system when | |
| | | configuring networks. State three reasons for the pre ference. (3 mar | ks) |
| | | N. H. Cort | •••• |
| | | it w | |
| | | SIS IS | |
| | | | |
| | | | •••• |
| 20 | | Not the | •••• |
| A007 | 3. | State three measures that should be put in place in a computer laboratory to safeguard users' | |
| | | health. (3 mar | ks) |
| | | | •••• |
| | | | |
| | | | •••• |
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| <u>118.7.1</u> | | Kenya Certificate of Secondary Education, 2018 | |

| | 4. | State three ways in which barcode readers may be used in schools. | (3 marks) |
|------|----|--|-----------|
| | | | ••••• |
| | | | ••••• |
| | | | |
| | | | |
| | | | ••••• |
| | | | , |
| _ | 5. | State three advantage of flat panel monitors over cathode ray tube monitors as used in computers. | (3 marks) |
| 181 | | computers. | (J marks) |
| | | ast | |
| | | it when the | ••••• |
| | | month | |
| | | | |
| | | | •••••• |
| | | 00- | |
| | 6. | State three possible reasons for the extinction of daisy wheel printers in the market. | (3 marks) |
| A007 | | tor more file | ••••• |
| | | | ••••• |
| | | | |
| | | | ••••• |
| | | | ••••• |
| | | | |

| | 7. | State three ways in which an operating system secures a computer system. | (3 mark) |
|------|----|---|-----------------------|
| | | | .. |
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| | | | |
| | | | |
| | | | |
| 181 | 8. | A law firm prefers to use hard copy output over soft copy output when handling docum legal matters. State two reasons for this preference. | ents for (2 marks) |
| | | - ASIG | ••• <u>•</u> •••• |
| | | م ج | ••••• |
| | | | ••••• |
| | | www. | |
| | | J.S.H. N. | |
| | 9. | State the function of each of the following features in a word processor application: | |
| | | (a) Thesaurus; | (1 mark) |
| | | | ••••• |
| A007 | | tor more the | |
| | | <u>40</u> ° | ••••• |
| | | (b) Comments. | (1 mark) |
| | | | |
| | | | |
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| | | | |

| | 10 | . With the aid of an example, explain the term <i>multi-level list</i> as used in word process | ing. (3 marks) |
|-----|------|--|-------------------|
| | | | |
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| | 181 | -st ^S . | ••••• |
| _ | | , stra | ••••• |
| | 11. | | (3 marks) |
| | | ww.teekco | *(2) |
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| | | 410 ⁰ | |
| 200 | 1004 | note | |
| N. | Ē. | | ••••• |
| | 12. | Explain the function of <i>protect sheet</i> feature in a spreadsheet program. | (2 marks) |
| | | | ••••• |
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Kenya Certificate of Secondary Education, 2018 451/1

Turn over

| | 13. | | e four computer-based careers introduced as a result of computerised data procented at the airport. | ssing (2 marks) |
|------|-----|------------------|--|---------------------|
| | | ••••• | | |
| | | •••••• | | |
| | | | | |
| | | | | ••••• |
| | 14. | In a s resul | spreadsheet, the formula =If(A1>10, A1*77, A1*50) is entered in a cell. Interpret Its. | et the (3 marks) |
| | | ••••• | | •••••• |
| 181 | | . <mark>.</mark> | es | |
| | | | STRAY | |
| | | | (GER)CO | |
| | | | Heere | •••••• |
| | 15 | | isit www. | |
| | 15. | carrie | e a stage in systems development life cycle where each of the following activities ed out: | are |
| | | (a) | identifying the technologies that may be used in a proposed system; | . (1 mark) |
| 70 | | (b) | identifying shortcomings of a system: | |
| A007 | | | Kot Me and a state of the state | . (1 mark) |
| | | (c) | preparing the system migration plan. | |
| | | | | . (1 mark) |



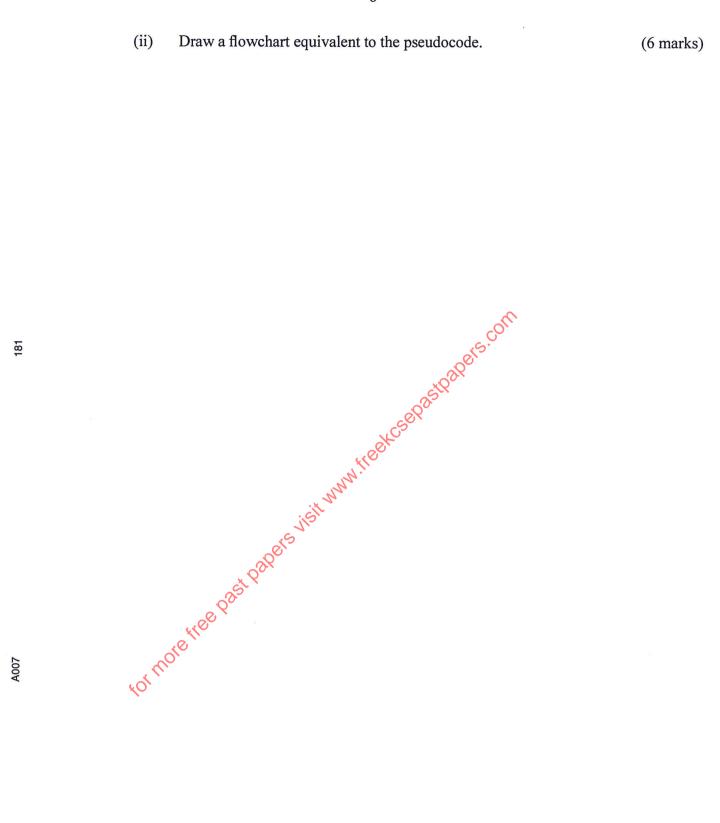
SECTION B (60 marks)

Answer question 16 and any other three questions from this section in the spaces provided.

| | | 16. | (a) | With the aid of a flow chart, describe <i>a loop control structure</i> as used in programming. (4 marks) |
|------|------|-----|-----|--|
| | | | | |
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| | _ | | | |
| | 181 | | | erson and the second se |
| | | | | |
| | | | (b) | Study the following pseudocode and answer the questions that follow. Start Get value1 and value2 If value1 > value2 Then |
| | | | | 1. Start |
| | | | | 2. Get value1 and value2 |
| | | | | J. II valuel - valuez IIIeli |
| | | | | 4. Maximum = value1 |
| | | | | 5. Else If value1 < value2 Then |
| | | | | 6. Maximum = value2 |
| | | | | 8. Else Go to 9 |
| | | | | 9. Display Maximum |
| | | | | 10. Stop |
| 1000 | A007 | | | (i) State the purpose of the pseudocode. (1 mark) |
| | | | | \sim |
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| | (c) | | | (4 marks) |
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| | | ••••• <mark>•</mark> •• | | |
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| | | •••••• | | |
| | | | OBIS. | |
| 1 7. | (a) | (i) | Explain the term <i>search engine</i> as used in the Internet. | (2 marks) |
| | | | | |
| | | | N. CO | •••••• |
| | | | | •••••• |
| | | | | |
| | | (ii) | Peter intends to download a movie from the Internet. State the three fa | ctors that |
| | | | $\dot{\mathbf{O}}^{\mathbf{O}}$ | (3 marks) |
| | | | | ••••• |
| | | | not the second sec | •••••• |
| | | | | ••••• |
| | | | | |
| | | | | |
| | | | | |
| | 17. | | prog | 17. (a) (i) Explain the term <i>search engine</i> as used in the Internet. |

| | (b) | obtair | ulima online is an org n market for their far er not to access the or | rm produce. S | State four tech | | is that may | |
|------|-----|----------------|---|-----------------------------------|------------------|-----------------|-------------|----------|
| | | •••••• | | ••••• | •••••• | | | |
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| 181 | | | | | Jer S | <u> </u> | | |
| | (c) | Expla may t | ain a situation when e be used when creating | each of the fo g a publication | ollowing Deskto | op Publishing p | rogram feat | ures |
| | | (i) | cropping; | Hee | on: 35 | | (2 | 2 marks) |
| | | | | www. | | | | •••• |
| | | | ers v | (S)1. | | | | |
| | | (ii) | transparency. | | | | (2 | 2 marks) |
| | | 4 | | | | | | |
| A007 | ş | formor | · | •••••• | | | | |
| | (d) | List tv | wo areas where infra | red waves are | e used in data c | communication. | (2 | 2 marks) |
| | | | | •••••• | | | | |
| | | | , | ••••• | | | | |

A007

| 18. | (a) | State | e four activities of the planning stage of systems development. | (4 marks) |
|-----|-----|---------------|--|-----------|
| | | | | ••••• |
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| | | ••••• | | |
| | | •••••• | - All | •••••• |
| | (b) | Expl durin | ain a circumstance when each of the following feasibility studies are carring systems development: | ried out |
| | | (i) | Technical; | (2 marks) |
| | | | N.Freeker | |
| | | (ii) | Economic; | (2 marks) |
| | | | | |
| | | | | ••••• |
| | | (iii) | Schedule. | (2 marks) |
| | | | ~~~ | ••••• |
| | | | | •••••• |
| | | | | •••••• |

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AUUI

(c) **Table 1** and **Table 2** are related tables in a database. Use them to answer the questions that follow.

| Table 1 | | |
|-----------|-------------|--|
| Dept Code | Dept Name | |
| 001 | Computer | |
| 002 | Aviation | |
| 003 | Engineering | |

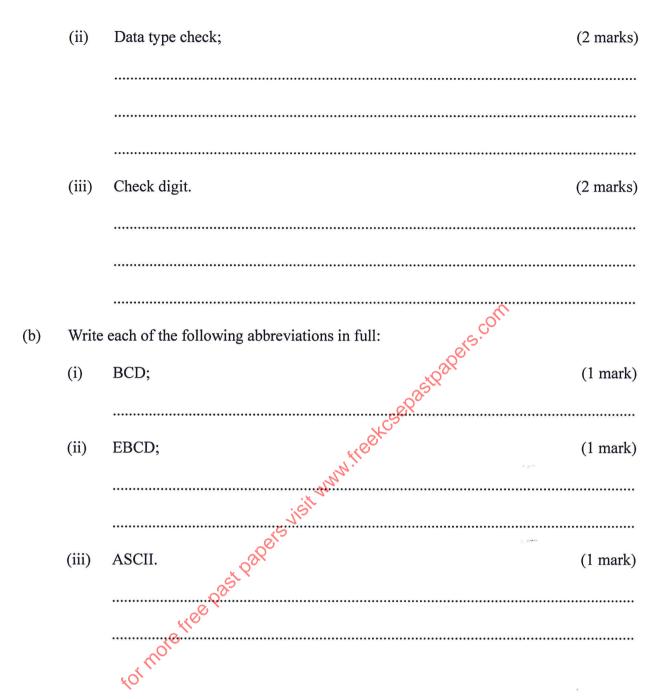
| | | | | Table 2 | | |
|-----|-----|--------|--------------------|---------------------------------|------------------------|--------------------|
| | | | DeptID | Student Registration No. | Student's Name | |
| | | | 002 | St01 | Alex Toro | |
| | | | 003 | St02 | Naomi Komi | |
| | | | 002 | St03 | Peter Kengo | |
| | | (i) | Identify the | appropriate primary key for ea | × ach table. | (1 mark) |
| | | | | white the | | |
| | | (iii) | Explain two | benefits of enforcing referenti | ial integrity in the d | atabase. (4 marks) |
| | | | ettee Past of | Reference | | |
| | | tormo | | | | |
| 19. | (a) | Descri | be each of th | e following validation checks | as used in data proc | essing: |
| | | (i) | Preserve che | ck; | | (2 marks) |
| | | | ••••• | | | |
| | | | | | | |
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A007

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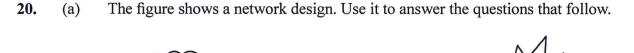
HALFER

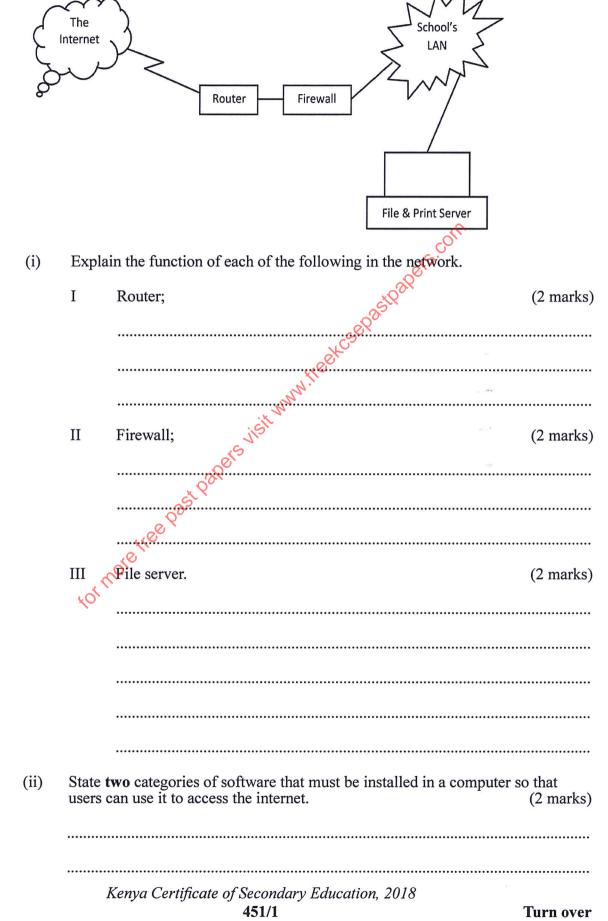
SOL

- (c) Using 10 bits binary number system, perform the following decimal operation using two's complement (6 marks)
- $129_{10} 128_{10}$ tor more tree past par

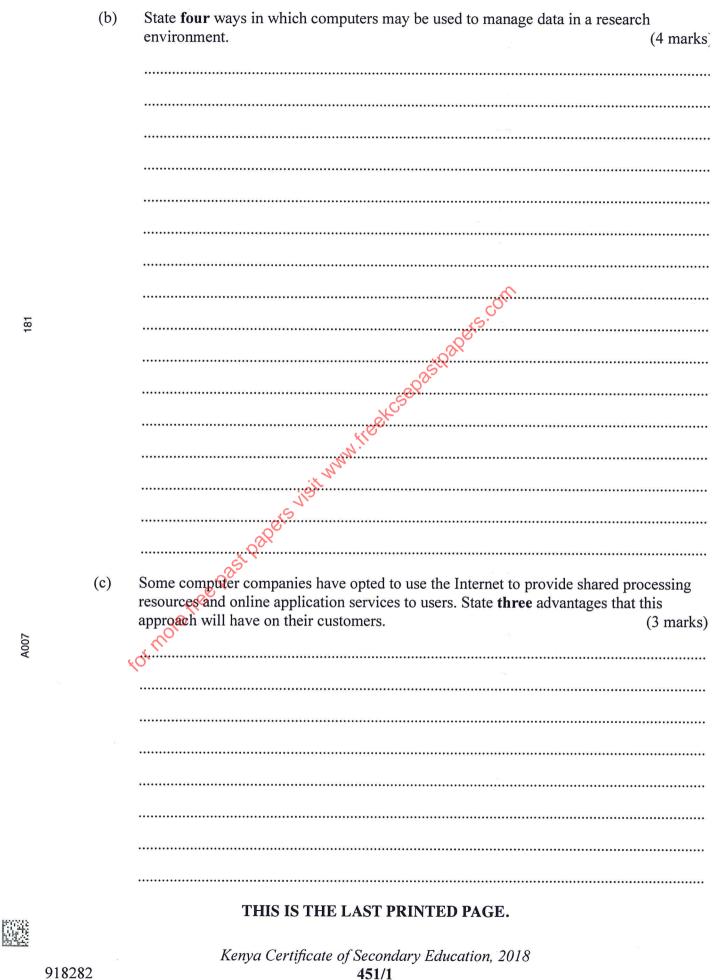








PX:SOL



| | THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Secondary Education |
|------|---|
| | 451/2 - COMPUTER STUDIES - Paper 2 (PRACTICAL) Nov. 2018 - 2 ¹ / ₂ hours |
| | NOV. 2018 - 2-/2 HOURS |
| | Instructions to candidates |
| 785 | (a) Write your name and index number at the top right hand corner of each of the papers provided for printing. (b) Write your name and index number on the CD/Removable storage medium provided. (c) Write the name and version of the software used for each question attempted in the printouts used. (d) Answer all the questions. (e) All questions carry equal marks. (f) Passwords should not be used while saving files. (g) All files must be transferred to the CD/Removable storage medium. (h) Make printouts of your answers on the papers provided for printing. (i) Arrange your printouts and tie/staple them together. (j) Hand in all the printouts and the CD/Removable storage medium used. (k) This paper consists of 6 printed pages. (i) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing. (m) Candidates should answer the questions in English |
| | (m) Candidates should answer the questions in English. The 2018 2018 2018 2018 2018 2018 2018 2018 |
| A005 | 2018 2018 13 2018 20 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 |
| | |
| | |

- In a school, students reside in three dormitories Red, Blue and Orange. Each dormitory 1. (a) is managed by a patron and each student is required to register for a game.
 - Open a database program and create a database named schoolgames that would (i) be used to manage the games. (1 mark)
 - Create the tables named; Student, Patron, Dormitory and Game in the database (ii) created in (i) using the following specifications. (7 marks)

Student table

| Field name | Description |
|------------|-----------------------------------|
| StudNo | Contains unique registration code |
| Studname | Contains the name of a student |
| Gamecode | Contains codes of each game |
| Dormcode | Contains codes of each dormitory |

Patron table

| Patron table | ers.com |
|-----------------|--------------------------|
| Fieldname | Description |
| Patroncode | Contains the patron code |
| Patronname | Contains the patron name |
| Dormitory table | ww.treet |
| Etald | D |

Dormitory table

| Field name | Description |
|------------|------------------------------------|
| Dormcode | Contains the dormitory code |
| Dormname | Contains the dormitory name |
| Patroncode | Contains the dormitory patron code |

Gametable

50

| | Field name | Description | |
|---|------------|-------------------------------|--|
| 5 | Gamecode | Contains the game code | |
| | Gamename | Contains the name of the game | |

(iii) Create the relationships between the tables.

(3 marks)



- (b) (i) Create a form for each table that would be used for data entry. (2 marks)
 - Enter the following data into their respective tables: (ii)

(9 marks)

Student table

| StudNo | Studname | Gamecode | Dormcode |
|----------------------------|---------------------------|----------------|-------------------|
| K001 | Anne | Gm004 | D003 |
| K002 | Chris | Gm003 | D001 |
| K003 | Jared | Gm001 | D002 |
| K004 | Julian | Gm004 | D003 |
| K005 | Marion | Gm001 | D003 |
| K006 | Janet | Gm002 | D003 |
| K007 | Tom | Gm002 | D002 |
| K008 | Jerry | Gm003 | D002 |
| Patron table Patroncode | Patronnam | 16 | apeli |
| Deed | | | |
| P001 | Maurice | | oastl |
| P001 P002 | Maurice Edward | | Rastil |
| 1. A.M. | Maurice Edward Jane | | y Raster |
| P002 | Maurice Edward Jane | t www.treekcse | 28 ²⁵¹ |
| P002 P003 | Maurice Edward Jane | Gm003 | y Rastly |

Patron table

| Patroncode | Patronname | |
|------------|------------|--|
| P001 | Maurice | |
| P002 | Edward | |
| P003 | Jane | |

Dormitory table

| Dormcode | Dormname | Patroncode |
|----------|----------|------------|
| D001 | Red | P001 |
| D002 | Blue | P002 |
| D003 | Orange | P003 |

Games table

| Gamecode | Gamename | |
|----------|--------------|--|
| 6m001 | Basketball | |
| Gm002 | Volleyball | |
| Gm003 | Table tennis | |
| Gm004 | Netball | |



- (c) Create a query to extract each of the following details:
 - StudNo, Studentname and Gamename for all students who reside in the Orange (i) dormitory or play Basketball. Save the query as orangeq. (5 marks)
 - StudNo, studentname, gamename for the students whose studentname start with (ii) letter "J". Save the query as **Jquery**. (3 marks)
- (d) (i) Create a tabular report showing the StudNo, Studentname, Dormname, Patronname, Gamename and grouped by Gamename. Save the report as reportgame.

(8 marks)

- (ii) Format the report created in (i) as follows:
 - Ι Replace the report title with the text "players for each game" (1 mark)
 - Π Enter your name and index as a report footer. (2 marks)
 - Bold the dormitory names in the report. III (2 marks)
- (e) Print out each of the following:
 - La Dou La Dou North Marken Past pagers visit unwill tor more free past pagers visit unwill tor more free past pagers visit unwill Student, Patron, Game and Dormitory tables (i)

(7 marks)

A005



- 2
- (i) Open a word processing program and key in the following text as it appears. Save the documents as **socialnetwork**. (11 marks)

SOCIAL NETWORKING

Social networking platforms are used by organisation to improve communication and productivity by disseminating information among different groups of employees in a more efficient manner. The advantages and disadvantages of social media are as follows.

Advantages

(a)

- Facilities open communication.
- Allows employees to discuss ideas.
- Provides an opportunity to widen business contracts.
- Targets a wide audience.
- Improves business reputation and client base.
- Expands market research.

Disadvantages

785

A005

- □ Susceptible to fraud
- D Potentially results to hate speech
- Destructs normal business operations

Employers do have the right to ban computer activity that is not work related, this approach may not yield optimal results. If employees are to be allowed access to social networking platforms then a comprehensive and well defined policy should be established to prevent abuses.

- (ii) Format the document as follows
 - I Title: Font size 18pts, font colour red, font type Tahoma. (3 marks)

\$Papers.com

- II Apply double line spacing for the text under the sub title "Advantages". (2 marks)
- III Apply a 4 lined drop cap on the first letter of first paragraph. (3 marks)
- IV Apply a two-columns format with a line between for the text with the two subtitles such that "Advantages" are to the left column and "Disadvantages" are in the right column. (4 marks)
- V Apply bold, italic and underline to subtitles "Advantages" and "Disadvantages". (3 marks)
- (iii) Apply the following format to the document:
 - I Insert a water mark with the text "social media" on the document of a font size of 20 and running diagonally from left to right. (4 marks)
 - II Insert page numbers at the bottom centre of every page. (2 marks)
 - III Insert the text "social networks" as a header aligned to the right. Apply italics to the header. (3 marks)

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- The following is a letter from a Principal of Malimali school to other Principals inviting (b) them for a seminar at the country education offices.
 - Open a new document and create the following as it appears. Save the document (i) as Malimali $(2\frac{1}{2} \text{ marks})$

The Principal <<School>>

Dear Sir

RE: SEMINAR MEETING

You are invited to attend the Principal's seminar which is scheduled to be at the county education office on the 2nd of June 2015. You are booked to be in <<Room>>>

1

We are looking forward to a successful event.

785 Yours Faithfully

Lilango Jotema Malimali School Principal

;epastpapers.com (ii) Use a mail merge feature to generate customised mails for the addresses shown in the following table. Save the mail merged document as Aletters. $(9\frac{1}{2} \text{ marks})$

| School | Room |
|--------------|---------|
| Ginga school | Room 6 |
| Lubi school | Room 8 |
| Trans school | Room 10 |

Print out each of the following: (c)

- (i) socialnetwork Malimali
- (iii) Aletters

(3 marks)

THIS IS THE LAST PRINTED PAGE.



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A005

| | | THE KENYA NATIONA Kenya Certificate | | | | |
|-----|----------------------------|---|---|---|----------------|-----------------|
| | 312/1 - | GEOG | RAPHY | | - | Paper 1 |
| | | Nov. 2018 | 8 – 2¾ hoi | urs | | |
| | Name | In | dex Number | | | |
| | Candidate's Signature | e Da | ate | | | |
| | Instructions to candid | ates | 2018 2018 2018 18 2018 2018 13 20 13 20 15 20 | 20 D15 2018 20 2018 2018 2018 2018 18 20 18 20 18 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 18 24 | |
| 430 | (b) Sign and write the da | index number in the spac te of examination in the s of two sections: A and B . | | | 20:12 20:12 | |
| | | ons in section A in the sp nd any other two question | | 2. 10 March | | t the end of |
| | (f) This paper consists of | heck the question paper | to ascertain that a | 118 2018 20 2018 2018 18 2018 20 11 the pages are p 2018 20 2018 20 | orinte | ed as indicated |
| | - | nswer the questions in E | 2018 2018 2018 2018 2018 2018 2018 2018 | 2018 2 18 2018 2 9 2018 2018 9 2018 2018 9 18 2018 2 9 18 2018 2 | | |
| | | For Exami | ner's Use Only | 2018 2018 7 118 2018 20 2018 20 12 2018 20 12 20 | | |
| | Se | ection Questions | Maximum | Candidate's | | |

| Section | Questions | Maximum Score | Candidate's Score |
|---------|-----------|--------------------|----------------------|
| AC | 1–5 | 25 | |
| or me | 6 | 25 | |
| В | | 25 | |
| | | 25 | |
| | | Total Score | |

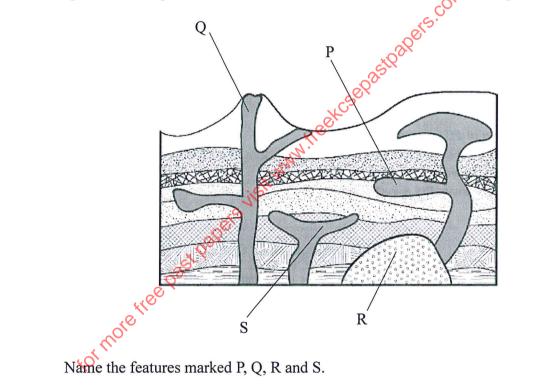
A123

SECTION A

Answer all the questions in this section.

| 1. | (a) | Define the term atmosphere. | (2 marks) |
|----|-----|--|-----------|
| | (b) | State the composition of the inner core. | (3 marks) |
| 2. | (a) | Name three types of folds. | (3 marks) |
| | (b) | State three factors that determine the folding of crustal rocks. | (3 marks) |

3. The diagram below represents some volcanic features. Use it to answer the questions below.



- 4. (a) Identify the main characteristics of the ocean water. (2 marks)
 - (b) Give **three** factors that influence wave deposition. (3 marks)
- 5. (a) List the three types of dunes.(3 marks)
 - (b) Identify **two** processes through which wind transports materials in arid areas. (2 marks)

DÅ

430

A123

(4 marks)

SECTION B

Answer question 6 and any other two questions from this section.

| | 6. | | y the n tions. | nap of Taita Hills 1:50,000 (sheet 189/4) provided and answer the follow | ing |
|------|----|-----|-------------------|--|---------------------------|
| _ | | (a) | (i) | Give the four figure grid reference of the trigonometrical station (220) | 8m). (1 mark) |
| | | | (ii) | What is the general direction of the flow of River Voi (Goshi)? | (1 mark) |
| | | (b) | (i) | Measure the length of the road labelled A23. Give your answer in kild | ometres. (2 marks) |
| 430 | | | (ii) | Citing evidence from the map, identify three social services offered in covered by the map. | n the area (6 marks) |
| 4 | | (c) | Desc | cribe the relief of the area covered by the map. | (7 marks) |
| - | | (d) | | ng evidence from the map, explain four factors that may have influenced ities in the area. | agricultural (8 marks) |
| | 7. | (a) | (i) | What is a rock? | (2 marks) |
| | | | (ii) | Give two examples of plutonic igneous rocks. | (2 marks) |
| | | (b) | Desc | ribe the processes of formation of each of the following types of sedime | ntary rocks: |
| | | | (i) | Mechanically formed. | (4 marks) |
| | | | (ii) | Organically formed. | (4 marks) |
| A123 | | (c) | State | the characteristics of rocks. | (5 marks) |
| | | (d) | You | are planning to carry out a field study on rocks within the local environm | ent. |
| | | | (i) | List three methods you would use to record data. | (3 marks) |
| | | | (ii) | State three problems you are likely to encounter. | (3 marks) |
| | | | (iii) | Give two economic uses of rocks you are likely to identify. | (2 marks) |
| | 8. | (a) | (i) | Identify the two types of earthquake waves. | (2 marks) |
| | | | (ii) | Describe the two ways through which the strength of an earthquake is measured. | (6 marks) |
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| | (b) | (i) Explain how vulcanicity causes earthquakes. (| (6 marks) |
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| | | (ii) Name three major earthquake zones of the world. (| (3 marks) |
| | (c) | Explain four effects of earthquakes on the human environment. (| (8 marks) |
| 9. | (a) | Name two types of landslides. (| (2 marks) |
| | (b) | Explain how each of the following factors influence mass wasting: | |
| | | (i) Climate (| 6 marks) |
| | | (ii) Slope (| 2 marks) |
| | (c) | (i) State four causes of soil creep. (| 4 marks) |
| | | (ii) Using a diagram, describe the process of solifluction. (| 5 marks) |
| | (d) | You intend to carry out a field study on the effects of mass wasting within the loc environment. | cal |
| | | (i) Give two methods of data collection that you would use for the study. (| 2 marks) |
| | | (ii) State two negative effects of mass wasting on the physical environment the are likely to identify. | hat you 2 marks) |
| | | (iii) Give two follow-up activities you would be involved in after the field stud (| dy. 2 marks) |
| 10. | (a) | (i) Name the three types of river erosion. (1) | 3 marks) |
| | | (ii) Describe each of the following processes of river erosion: | |
| | | Abrasion (4 | 4 marks) |
| | | ^{VO} II. Solution (2 | 3 marks) |
| | (c) | Describe the characteristics of the upper stage of a river. (| 6 marks) |
| | (d) | (i) What is river rejuvenation? (2 | 2 marks) |
| | | (ii) Give four causes of river rejuvenation. (4) | 4 marks) |
| | | (iii) Identify three features that result from river rejuvenation. (2) | 3 marks) |
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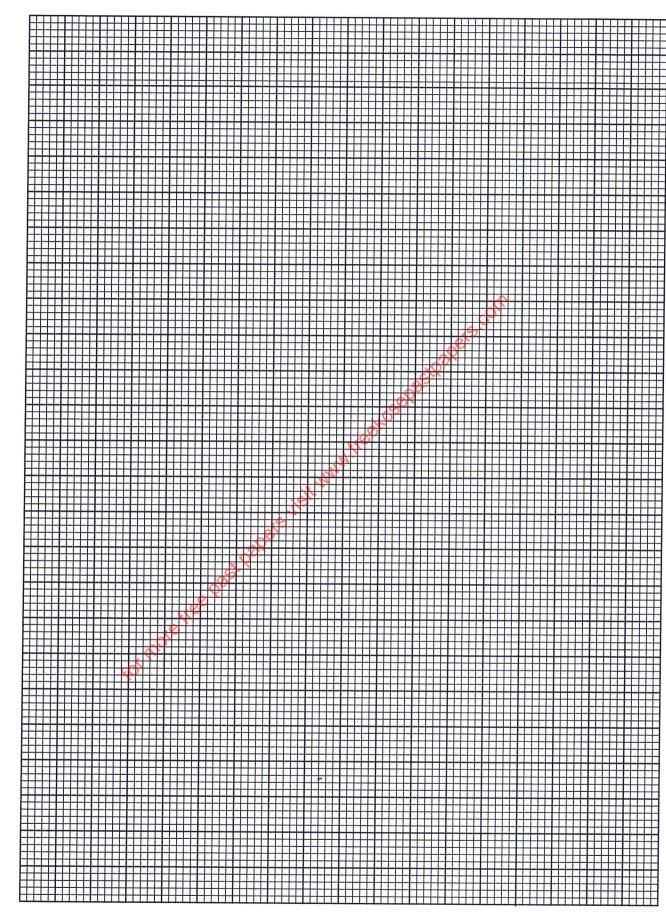
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