

G7 ECZ CREATIVE & TECH. STUDIES 2023 SOLUTIONS

Grade 7 ECZ Composite Examination -- Creative and Technology Studies, 2023

multiple-choice questions -- A: Expressive Arts (1-20), B: Home Economics (21-40), C: Technology Studies (41-60), 75 minutes. The question paper appears first -- worked answers follow. A few items are flagged as best-effort judgment calls where a diagram or wording is ambiguous.



EXAMINATIONS COUNCIL OF ZAMBIA

GRADE SEVEN COMPOSITE EXAMINATION – 2023



Creative and Technology Studies

SUBJECT 8/1

75 MINUTES

TD/CTS1/G7/2023

- 1 Read these instructions carefully.
- 2 **DO NOT** turn this page before you are told. Your teacher will tell you when to turn this page to begin answering the questions.
- 3 There are **60** questions in this **CREATIVE AND TECHNOLOGY STUDIES PAPER**. You will be given **EXACTLY 75 MINUTES** to answer the questions.
- 4 For each question, four answers are given, but only one of the four is right. Work out which is the **BEST** answer. Then, on your **ANSWER SHEET**, mark the box completely by shading the answer space of the letter of your choice. If you had chosen answer D for a question, you would show it like this:-

A	B	C	
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- 5 You must **SHADE** your answer spaces **COMPLETELY** and **DARKLY** using an HB pencil. If you have to change your answer, you must rub out the shading **VERY NEATLY** before shading the new one. **USE A CLEAN RUBBER.**
- 6 When you have finished one page, go straight on without waiting to be told. If you have time left before the end of the examination, use it to check your work carefully.
- 7 Look at your **ANSWER SHEET**. On the top left hand side is a box which should have, Examination Year, your School Number and Examination Number. It should also say **Subject 8, Paper 1.**
- 8 Look at your **ANSWER SHEET** again. At the bottom left hand side, it should have your Surname, Forename, Subject –**Creative and Technology Studies**, Name of Primary School and Secondary School of choice.
- 9 **PUT UP YOUR HAND NOW IF:** You have any question.
You have the wrong Answer Sheet.

You will **NOT** be able to ask questions once the examination has begun.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD.
USE ONLY AN HB PENCIL FOR YOUR ANSWERS.

SECTION A: EXPRESSIVE ARTS

- 1 The musical instrument shown below is mostly used for ... music.



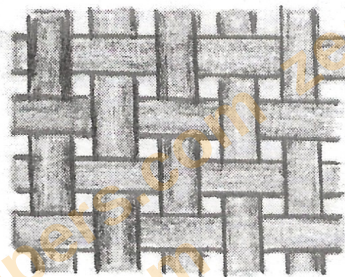
- A reggae
- B traditional
- C pop
- D jazz

- 2 What material is used to make the item shown in the diagram below?



- A Clay
- B Glass
- C Stone
- D Wood

- 3 Study the following picture.



What type of crafts technique is this?

- A Collage
- B Knotting
- C Montage
- D Weaving

- 4 Chanda makes and sells flower pots at a nearby lodge. We can say he is an ...
- A entrepreneur.
 - B exporter.
 - C importer.
 - D investor.
- 5 Learners were asked to recite the tonic solfa. Which of the following is the fourth note?
- A do
 - B fa
 - C la
 - D mi
- 6 What safety measure could be done when preparing a football pitch?
... the pitch.
- A Remove all solid objects from
 - B Pour a lot of water on
 - C Plant flowers round
 - D Paint the markings on
- 7 The extra money a trader earns after selling a product is called ...
- A commission.
 - B loss.
 - C profit.
 - D wage.
- 8 In the following diagrams, which item is **not** made by carving?



- 9 The sport activity performed by the learner in the diagram shown below is ...



- A discuss.
- B high jump.
- C javelin.
- D long jump.

- 10 The shading technique used in the following picture is ...

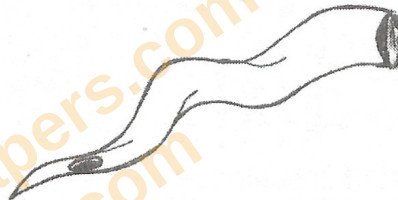


- A smooth shading.
- B dot shading.
- C curved lines.
- D cross etching.

- 11 Which two primary colours when mixed can form the colour green?

- A Blue and Red
- B Orange and Purple
- C Red and Yellow
- D Yellow and Blue

- 12 The following musical instrument is ...



- A a western shaker.
- B a western instrument.
- C an African instrument.
- D an African drum.

13 Maria wore an appropriate dress every time she was working in the workshop. This is because she aims to ...

- A appear smart.
- B look prettier.
- C prevent injuries.
- D work harder.

14 In a 100m × 4 relay, which runner completes the race? ... runner.

- A First
- B Fourth
- C Second
- D Third

15 Which of the joined musical notes below makes a crotchet beat?

- A 
- B 
- C 
- D 

16 Running horses in a sport of polo damages the grass. This may cause ...

- A soil hardening.
- B soil erosion.
- C grass decaying.
- D grass germination.

17 When black paint is added to another paint, the other paint becomes darker. Black paint is a ...

- A colour.
- B scheme.
- C shade.
- D tint.

18 Knotting strings in a pattern to make decorative items is called ...

- A applique.
- B collage.
- C macramé.
- D mosaic.

19 Which artefact is produced by using seeds and glue?

- A Collage
- B Mosaic
- C Paper mache
- D Wooden sculpture

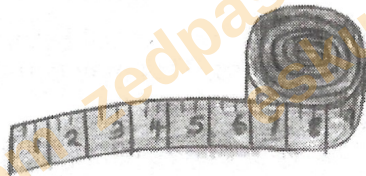
20 The skill shown in the diagrams below is used in volleyball as ... pass.



- A a bounce
- B a chest
- C a dig
- D an overhead

SECTION B: HOME ECONOMICS

21 The needlework tool shown in the diagram below is ...



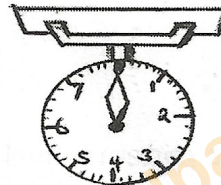
- A Measuring card.
- B Measuring tape.
- C Pinking shears.
- D Tailors' chalk.

22 Which of the following equipment can be used to measure the correct weight of food?

A



B



C

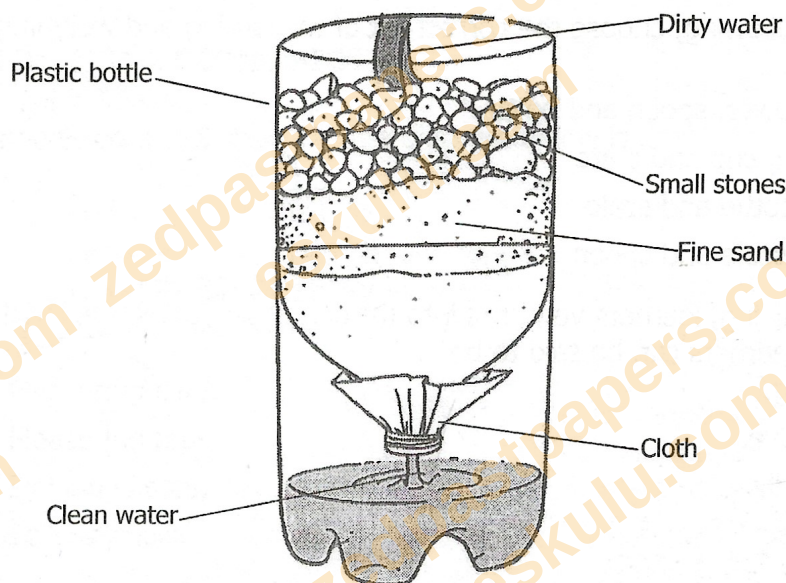


D



- 23** Brushing teeth three times a day as recommended by dentists helps to ...
- A** increase mouth bacteria.
 - B** keep the teeth clean and strong.
 - C** prevent sores in the stomach.
 - D** spread gum diseases.
- 24** What is food budgeting in a home? The amount of money ...
- A** kept to be used for visitors only.
 - B** kept aside to buy family clothes.
 - C** set aside to buy family food.
 - D** set to be used to buy food for children only.
- 25** Which list has the correct utensils for a traditional kitchen?
- A** Brazier, winnowing basket and mortar
 - B** Chopping board, jar and cutlery
 - C** Sieve, brazier and kitchen scale
 - D** Tin opener, colander and jar
- 26** From the following, choose the correct list of measuring and weighing equipment.
- A** Winnowing, spoon and bottle
 - B** Spoon, cup and plate
 - C** Pot, bottle and scale
 - D** Cup, scale and spoon
- 27** To earn a living, learners ventured into making of wooden tables and chairs for sale. The learners can be said to be ...
- A** caring.
 - B** creative.
 - C** friendly.
 - D** polite.
- 28** A ... can be improvised from a plastic water bottle.
- A** funnel
 - B** lunch box
 - C** plate
 - D** rolling pin
- 29** The wet refuse from the kitchen can best be disposed of ...
- A** by burning.
 - B** in a drainage.
 - C** in a dust pan.
 - D** in a waste bin.

- 30 Why is air introduced into flour mixture?
- A As a raising agent
 - B For thickening the mixture
 - C For a quick baking
 - D To improve appearance
- 31 The uniqueness of the body is referred to as ...
- A appropriate dressing.
 - B confidence of a person.
 - C integrity of a person.
 - D physical appearance.
- 32 A good diet for people with HIV and AIDS must include ...
- A carbohydrates, minerals and fats.
 - B fats, carbohydrates and proteins.
 - C proteins, vitamins and fats.
 - D proteins, vitamins and minerals.
- 33 The method of water purification shown in the diagram is called ...



- A boiling.
 - B chlorination.
 - C decantation.
 - D filtration.
- 34 Which of the following activities **cannot** be turned into a business venture in Home Economics?
- A Flower arrangement
 - B Gardening
 - C Plumbing
 - D Scone baking

35 Crocheting can be used for ... on garments.

- A joining seams
- B making decorations
- C making hems
- D mending holes

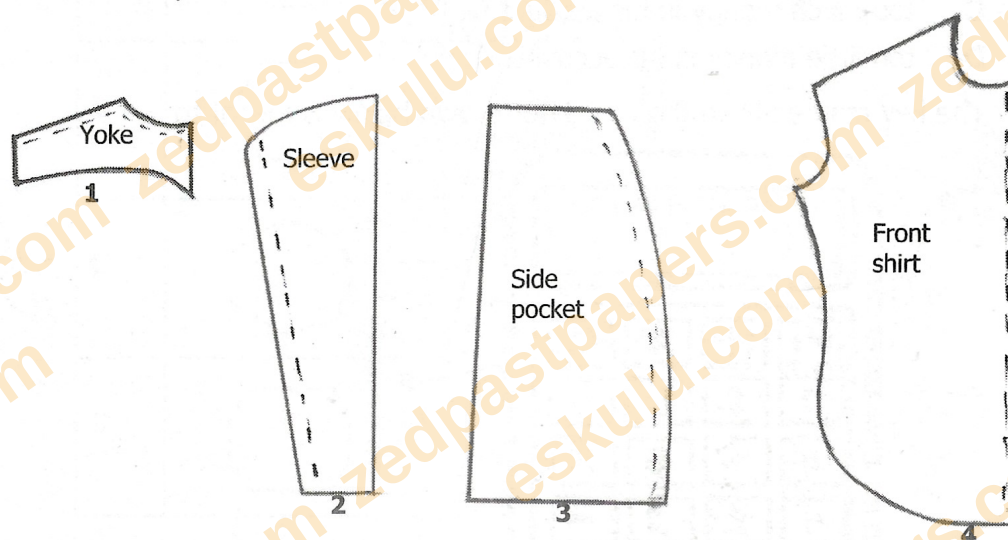
36 Which of the following water treatments is correctly paired with its explanation?

A	Boiling	Involves adding chlorine only
B	Chlorination	Allowing solids to settle
C	Decantation	Pouring out water from a settled mixture
D	Filtration	Straining dirty water through muslin cloth

37 The two sources of proteins are ...

- A animals and plants.
- B fruits and vegetables.
- C salts and cereals.
- D sugars and glucose.

38 Which of the pieces shown below can be joined when making a shirt?

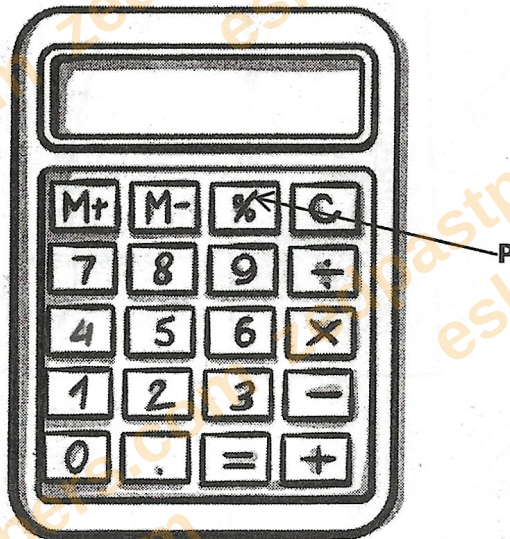


- A 1 and 3
- B 2 and 3
- C 2 and 4
- D 4 and 3

- 39 ... is a common type of weave used in needlework and crafts.
- A Basket
 - B Plain
 - C Pile
 - D Twill
- 40 Which of the following is **not** an effect of physical appearance on others?
- A Attraction
 - B Intelligence
 - C Repulsion
 - D Respect

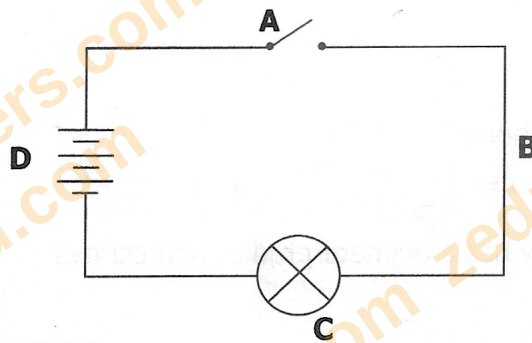
SECTION C: TECHNOLOGY STUDIES

- 41 John's money was stolen from his bank account. He might have ...
- A disclosed his ATM card PIN to someone.
 - B forgotten to close his account.
 - C too much money in his account.
 - D too little money in his account.
- 42 The key marked **P** on the calculator drawn below is meant to ...



- A calculate percentage.
- B divide numbers.
- C find results.
- D memory recalls.

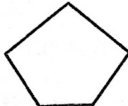
43 Which of the labelled parts show a switch on the diagram below?



44 ... are a product of moulding.

- A Bricks
- B Brooms
- C Chairs
- D Mats

45 Which of the following polygon is correctly paired with its name?

A		pentagon
B		nonagon
C		octagon
D		hexagon

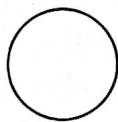
46 Edward opened a barbershop in town after being empowered by the government. He offered ... to the people.

- A services
- B sales
- C profit
- D goods

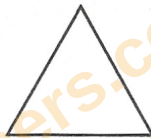
47 Which type of a calculator is designed to solve problems in science, mathematics and engineering?

- A** Standard calculator
- B** Scientific calculator
- C** Calculator on a cell phone
- D** Calculator on a computer

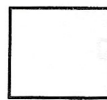
48 Which of the shapes below has a diameter, radius and centre?



A



B



C



D

49 Mr Jones bought a car at K35 000 and later sold it at K45 000. How much profit did he make?

- A** K80 000
- B** K70 000
- C** K45 000
- D** K10 000

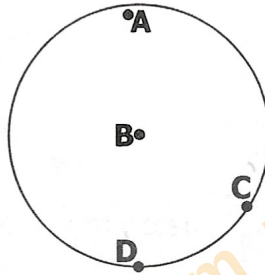
50 The following are components of a simple electric circuit **except** a ...

- A** bulb.
- B** copper wire.
- C** switch.
- D** rubber.

51 ... is used by professional graphic artists and photographers to create new images.

- A** Adobe
- B** CorelDraw
- C** Paint
- D** Photoshop

- 52 Tom was asked to construct a radius of a circle below. Which points would he join?

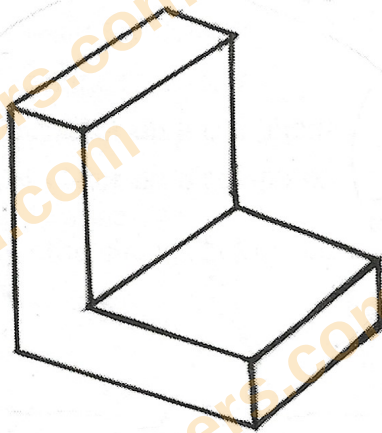


- A C and D
- B C and A
- C B and C
- D A and D

- 53 Choose the correct procedure to be followed when gluing materials.

- | | |
|----------|--|
| A | (i) Apply glue on both parts.
(ii) Clean the surfaces to be joined.
(iii) Clamp the two pieces of wood together. |
| B | (i) Clamp the two pieces of wood together.
(ii) Clean the surfaces to be joined.
(iii) Apply glue on both parts. |
| C | (i) Clean the surfaces to be joined.
(ii) Apply glue on both parts.
(iii) Clamp the two pieces of wood together. |
| D | (i) Clean the surfaces to be joined.
(ii) Clamp the two pieces of wood together.
(iii) Apply glue on both parts. |

- 54 A learner constructed the block figure below.



It is drawn in ...

- A first angle.
 - B isometric.
 - C orthographic.
 - D third angle.
- 55 Moving a cursor with ... is easier and quicker than using a mouse.
- A arrow keys.
 - B control panel.
 - C enter key.
 - D space bar.
- 56 Which of the following text format slants the letters evenly to the right?
- A Bold
 - B Italic
 - C Normal
 - D Underline
- 57 To prevent twisting and cracking of bricks, Jane made a simple shade. This type of drying bricks is known as ...
- A artificial.
 - B chemical.
 - C natural.
 - D physical.

58 The nails in the diagram below are used to fix ...



- A ordinary iron sheets onto wood.
 - B plastic onto metal.
 - C plywood and soft boards together.
 - D textile materials to wood.
- 59 Agness wanted to access different computer applications. What did she use? Microsoft ...
- A Excel.
 - B Office.
 - C Paint.
 - D Word.
- 60 Changing the size of an image is a type of graphics known as ...
- A designing.
 - B packaging.
 - C manipulation.
 - D navigation.

STOP! PLEASE GO BACK AND CHECK YOUR WORK.

Question 1. [SECTION A: EXPRESSIVE ARTS] Study the picture of a djembe-style drum. The musical instrument shown below is mostly used for ... music.

Answer: B -- traditional.

Question 2. Study the picture of a mortar and pestle. What material is used to make the item shown in the diagram below?

Best-effort judgment call -- mortars used for pounding are traditionally carved from wood, though the shading could suggest stone.

Answer: D -- Wood.

Question 3. Study the picture of a woven crisscross pattern of strips. What type of crafts technique is this?

Answer: D -- Weaving.

Question 4. Chanda makes and sells flower pots at a nearby lodge. We can say he is an ...

Answer: A -- entrepreneur.

Question 5. Learners were asked to recite the tonic solfa. Which of the following is the fourth note? Do, re, mi, ...

Answer: B -- fa.

Question 6. What safety measure could be done when preparing a football pitch? ... the pitch.

Answer: A -- Remove all solid objects from.

Question 7. The extra money a trader earns after selling a product is called ...

Answer: C -- profit.

Question 8. Study the four carved-item diagrams (A: a mortar, B: a carved rod/staff, C: a wooden spoon, D: a handled pot). In the following diagrams, which item is not made by carving?

Answer: D -- the handled pot (a moulded/metal vessel, unlike the mortar, rod and spoon which are all carved from wood).

Question 9. Study the picture of a learner running toward a long rectangular sand pit. The sport activity performed by the learner in the diagram shown below is ...

Answer: D -- long jump.

Question 10. Study the picture of a shaded bowl with a cast shadow. The shading technique used in the following picture is ...

Best-effort judgment call -- the strokes appear to follow the curve of the bowl's surface.

Answer: A -- smooth shading.

Question 11. Which two primary colours when mixed can form the colour green?

Answer: D -- Yellow and Blue.

Question 12. Study the picture of a curled, tapering horn-like wind instrument. The following musical instrument is ...

Best-effort judgment call -- the curved horn shape is most consistent with a traditional African wind instrument rather than a drum.

Answer: C -- an African instrument.

Question 13. Maria wore an appropriate dress every time she was working in the workshop. This is because she aims to ...

Answer: C -- prevent injuries.

Question 14. In a 100m x 4 relay, which runner completes the race? ... runner.

Answer: B -- Fourth.

Question 15. Study the four pairs of joined musical notes. Which of the joined musical notes below makes a crotchet beat?

Best-effort judgment call -- without a fully legible scan of each notehead/beam style, the exact intended pair of beamed quavers cannot be pinned down with certainty.

Answer: A -- the pair of notes joined by a single beam (two quavers, together worth one crotchet beat).

Question 16. Running horses in a sport of polo damages the grass. This may cause ...

Answer: B -- soil erosion.

Question 17. When black paint is added to another paint, the other paint becomes darker. Black paint is a ...

Answer: C -- shade.

Question 18. Knotting strings in a pattern to make decorative items is called ...

Answer: C -- macrame.

Question 19. Which artefact is produced by using seeds and glue?

Answer: A -- Collage.

Question 20. Study the two diagrams: interlocked fingers with thumbs together, and a ball near a player's feet. The skill shown in the diagrams below is used in volleyball as ... pass.

Best-effort judgment call -- the interlocked-finger hand position most closely matches the technique used for a dig.

Answer: C -- a dig.

Question 21. [SECTION B: HOME ECONOMICS] Study the picture of a needlework tool marked with numbers 1-8 along its length. The needlework tool shown in the diagram below is ...

Answer: B -- Measuring tape.

Question 22. Study the four kitchen-equipment diagrams (A: a bowl, B: a dial weighing scale, C: a spoon, D: a handled pot). Which of the following equipment can be used to measure the correct weight of food?

Answer: B -- the dial weighing scale.

Question 23. Brushing teeth three times a day as recommended by dentists helps to ...

Answer: B -- keep the teeth clean and strong.

Question 24. What is food budgeting in a home? The amount of money ...

Answer: C -- set aside to buy family food.

Question 25. Which list has the correct utensils for a traditional kitchen?

Answer: A -- Brazier, winnowing basket and mortar.

Question 26. From the following, choose the correct list of measuring and weighing equipment.

Answer: D -- Cup, scale and spoon.

Question 27. To earn a living, learners ventured into making of wooden tables and chairs for sale. The learners can be said to be ...

Answer: B -- creative.

Question 28. A ... can be improvised from a plastic water bottle.

Answer: A -- funnel.

Question 29. The wet refuse from the kitchen can best be disposed of ...

Answer: D -- in a waste bin.

Question 30. Why is air introduced into flour mixture?

Answer: A -- As a raising agent.

Question 31. The uniqueness of the body is referred to as ...

Answer: D -- physical appearance.

Question 32. A good diet for people with HIV and AIDS must include ...

Answer: D -- proteins, vitamins and minerals.

Question 33. Study the diagram of a plastic-bottle water filter with layers of small stones and fine sand above a cloth, turning dirty water into clean water. The method of water purification shown in the diagram is called ...

Answer: D -- filtration.

Question 34. Which of the following activities cannot be turned into a business venture in Home Economics?

Answer: C -- Plumbing.

Question 35. Crocheting can be used for ... on garments.

Answer: B -- making decorations.

Question 36. Study the table pairing water-treatment terms with descriptions (A: Boiling - Involves adding chlorine only, B: Chlorination - Allowing solids to settle, C: Decantation - Pouring out water from a settled mixture, D: Filtration - Straining dirty water through muslin cloth). Which of the following water treatments is correctly paired with its explanation?

Best-effort judgment call -- both C and D describe their own process accurately, while A and B are clearly mismatched with each other's definitions; filtration through cloth is the more directly demonstrated method in this paper.

Answer: D -- Filtration -- Straining dirty water through muslin cloth.

Question 37. The two sources of proteins are ...

Answer: A -- animals and plants.

Question 38. Study the four labelled shirt pieces (1: Yoke, 2: Sleeve, 3: Side pocket, 4: Front shirt). Which of the pieces shown below can be joined when making a shirt?

Answer: C -- 2 and 4 (the sleeve joins to the front shirt at the armhole).

Question 39. ... is a common type of weave used in needlework and crafts.

Answer: B -- Plain.

Question 40. Which of the following is not an effect of physical appearance on others?

Answer: B -- Intelligence.

Question 41. [SECTION C: TECHNOLOGY STUDIES] John's money was stolen from his bank account. He might have ...

Answer: A -- disclosed his ATM card PIN to someone.

Question 42. Study the picture of a calculator with a key marked P pointing to the % key. The key marked P on the calculator drawn below is meant to ...

Answer: A -- calculate percentage.

Question 43. Study the circuit diagram with parts labelled A (a break in the wire), B (a wire), C (a bulb) and D (a battery). Which of the labelled parts show a switch on the diagram below?

Answer: A.

Question 44. ... are a product of moulding.

Answer: A -- Bricks.

Question 45. Study the table pairing four polygon diagrams with names (A: a 5-sided shape labelled pentagon, B: a 6-sided shape labelled nonagon, C: a 7-sided shape labelled octagon, D: an 8-sided shape labelled hexagon). Which of the following polygons is correctly paired with its name?

Answer: A -- the 5-sided shape correctly labelled pentagon.

Question 46. Edward opened a barbershop in town after being empowered by the government. He offered ... to the people.

Answer: A -- services.

Question 47. Which type of a calculator is designed to solve problems in science, mathematics and engineering?

Answer: B -- Scientific calculator.

Question 48. Study the four shapes (A: circle, B: triangle, C: square, D: rectangle). Which of the shapes below has a diameter, radius and centre?

Answer: A -- the circle.

Question 49. Mr Jones bought a car at K35 000 and later sold it at K45 000. How much profit did he make?

Answer: D -- K10 000.

Question 50. The following are components of a simple electric circuit except a ...

Answer: D -- rubber.

Question 51. ... is used by professional graphic artists and photographers to create new images.

Answer: D -- Photoshop.

Question 52. Study the diagram of a circle with centre B and points A, C, D on the circumference. Tom was asked to construct a radius of a circle below. Which points would he join?

Answer: C -- B and C.

Question 53. Choose the correct procedure to be followed when gluing materials.

Answer: C -- Clean the surfaces to be joined, apply glue on both parts, then clamp the two pieces of wood together.

Question 54. Study the picture of an L-shaped block drawn in three dimensions with angled faces. A learner constructed the block figure below. It is drawn in ...

Answer: B -- isometric.

Question 55. Moving a cursor with ... is easier and quicker than using a mouse.

Answer: A -- arrow keys.

Question 56. Which of the following text formats slants the letters evenly to the right?

Answer: B -- Italic.

Question 57. To prevent twisting and cracking of bricks, Jane made a simple shade. This type of drying bricks is known as ...

Answer: C -- natural.

Question 58. Study the picture of several small nails. The nails in the diagram below are used to fix ...

Best-effort judgment call among the given material pairings.

Answer: A -- ordinary iron sheets onto wood.

Question 59. Agness wanted to access different computer applications. What did she use? Microsoft ...

Answer: B -- Office.

Question 60. Changing the size of an image is a type of graphics known as ...

Answer: C -- manipulation.

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