

G7 ECZ CREATIVE & TECH. STUDIES 2022 SOLUTIONS

Grade 7 ECZ Composite Examination -- Creative and Technology Studies, 2022

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 – 2022

Creative and Technology Studies

SUBJECT 8/1

75 MINUTES

TD/CTS1/G7/2022

- 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 A child draws a picture from the mind. What type of drawing is this?

- A** Imaginative
- B** Perspective
- C** Portrait
- D** Still-life

2 What gymnastic activity is displayed in the figure below?



- A** Backward roll
- B** Cart wheel
- C** Forward roll
- D** Hand-stand

3 Which instrument provides an important rhythm to the form and style of traditional music?

- A** Drum
- B** Guitar
- C** Keyboard
- D** Xylophone

4 The art of making items using pieces of paper, flour and water is known as ...

- A** model picture.
- B** montage.
- C** mosaic.
- D** paper mache.

5 How many runners take part in a relay race?

- A** 2
- B** 4
- C** 6
- D** 8

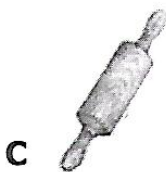
6 ... involves performing different specified exercises that have to be done within a set time.

- A Circuit training
- B Hurdle
- C Isometric
- D Obstacle course

7 Which Zambian traditional dance has masked dancers?

- A Chitebele
- B Kayowe
- C Makishi
- D Vimbuza

8 Which of the following is not a carved item?



9 Swimming pools must always be kept clean to ...

- A allow swimmers to swim easily.
- B help swimmers to swim faster.
- C make swimmers to become clean.
- D protect swimmers from becoming ill.

10 Abigail spends K500.00 on planks, K250.00 on nails, K50.00 on sand paper and K350.00 on varnish to make a coffee table. She later sold it at K1 050.00. She made a ...

- A loss.
- B product.
- C profit.
- D service.

11 Which skill is used to construct a papier mâché?

- A Carving
- B Knotting
- C Modelling
- D Weaving

12 The musical notes shown in the figure below are two ...



- A bars.
- B beats.
- C crotchets.
- D quavers.

13 The following are safety rules **except** ...

- A do not touch electric wires with bare hands.
- B do not wear appropriate clothes.
- C handle glass with care.
- D obey the rules.

14 ... is one of the type of sport that usually affects the environment.

- A Discus
- B Javelin
- C Polo
- D Volleyball

15 In which sport activity is the scissors style used? ... jumps.

- A High
- B Long
- C Short
- D Triple

16 How many quaver notes are in crotchet?

- A $\frac{1}{4}$ beat
- B $\frac{1}{2}$ beat
- C 1 beat
- D 2 beats

17 Which one of the following has colours in their correct group?

	Primary	Secondary	Tertiary
A	Blue	Purple	Green
B	Green	Yellow	Blue
C	Red	Purple	Yellow/purple
D	Green/yellow	Blue	Red

18 What is the major role of a referee in a game of football? To ...

- A inspect the players.
- B show red cards to players.
- C supervise the game.
- D train the players.

19 Posters are usually well decorated with bright colours to ...

- A make them look more attractive.
- B make them look very expensive.
- C prevent people from seeing them.
- D prevent people from stealing them.

20 The following are the steps for life saving skills in swimming. Which one is missing?

Reach



Wade



Row

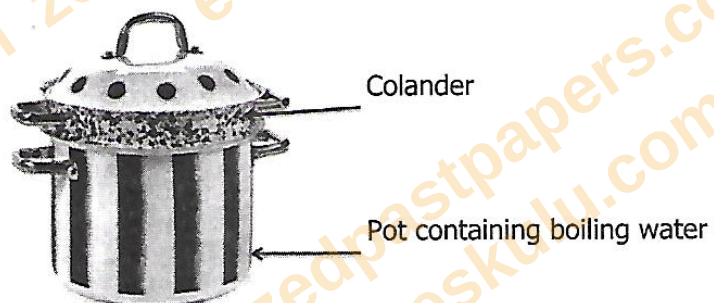


Swim/Tow

- A Catch
- B Drop
- C Push
- D Throw

SECTION B: HOME ECONOMICS

- 21** Which one of the following is the use of a kitchen sink?
- ☒ A Washing dishes
 - ☐ B Washing hands
 - ☐ C Washing clothes
 - ☐ D Pouring dirty water
- 22** The following are uses of water in a home **except** ...
- ☐ A bathing.
 - ☐ B cooking.
 - ☒ C purifying.
 - ☐ D washing.
- 23** ...are physical changes at puberty in both girls and boys.
- ☐ A Menstrual flow begins and production of sperms
 - ☒ B Pubic hair grows and pimples appear
 - ☐ C Voice breaks and hips broaden
 - ☐ D Waist becomes distinct and shoulders broaden
- 24** Which of the following are qualities of a good entrepreneur?
- ☐ A Aggressive and violent
 - ☐ B confident and persistent
 - ☐ C Proud and boastful
 - ☒ D shy and quite
- 25** What type of cooking method is shown in the figure below?



- ☐ A Frying
- ☐ B Grilling
- ☐ C Roasting
- ☒ D Steaming

- 26** A diet which contains all the food groups in their right amount is called a ... diet.
- ☒ A correct
 - ☐ B full
 - ☐ C mixed
 - ☐ D special
- 27** Which disease is caused due to lack of protein in the body?
- ☐ A Beriberi
 - ☒ B Kwashiorkor
 - ☐ C Marasmus
 - ☐ D Rickets
- 28** Which entrepreneurial opportunity is related to crafts?
- ☒ A Basket making
 - ☐ B Cake making
 - ☐ C Growing vegetables
 - ☐ D Sewing aprons
- 29** How can the waste bin be kept clean?
- ☐ A Always keeping the bin closed
 - ☐ B Always keeping the bin open
 - ☒ C Washing the bin everyday
 - ☐ D Washing the bin once a week
- 30** A boy was paid for cleaning the neighbour's compound. He provided ... to the neighbour.
- ☐ A an advert
 - ☐ B an awareness
 - ☐ C a product
 - ☒ D a service
- 31** Method of cooking over direct heat from an open fire is called ...
- ☐ A grilling.
 - ☒ B roasting.
 - ☐ C steaming.
 - ☐ D stewing.
- 32** Which ingredient can be used for making homemade starch?
- ☒ A Cassava
 - ☐ B Groundnuts
 - ☐ C Salt
 - ☐ D Yeast

33 What is the difference between measuring and weighing?

Measuring

- A Uses dry ingredients
- B Uses scales
- ☒ C Uses cups
- D Uses scales

Weighing

- Uses liquids
- Uses dry ingredients
- Uses scales
- Uses solids

34 Personal hygiene includes **all** of the following **except** ...

- A dental care.
- B hair shaving.
- C painting fingernails.
- ☒ D skin bleaching.

35 Puberty in girls begins at the age of ... years.

- A 8 to 9
- ☒ B 11 to 12
- C 13 to 15
- D 16 to 18

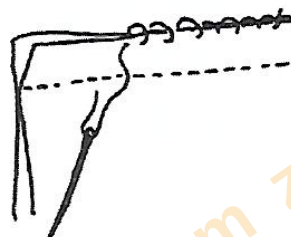
36 The needlework tool used for marking on fabrics is ...

- A measuring card
- B pin cushion
- C tailors chalk
- D tape measure

37 The inner layer of the skin is known as ...

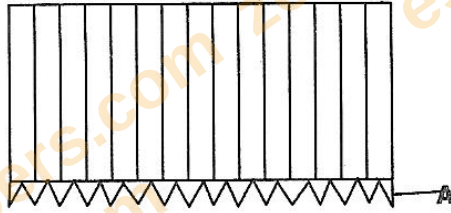
- ☒ A dermis.
- B epidermis.
- C hypodermis.
- D melanin.

38 Which stitch is shown in the diagram below?



- A Tailor's tuck
- B Over sewing
- C Overcasting
- D Herring-bone

39 Which scissors is used to make the decoration labelled A?



- A Embroidery
- B Pinking shear
- C Sewing shear
- D Trimming

40 Which locally available material can be used to clean pots in place of scouring pad?

- A Ashes
- B Egg shells
- C Mango leaves
- D Sand

SECTION C: TECHNOLOGY STUDIES

41 Which of the following drawing shows a right angle?



42 ... is a global system of computer networks that are linked together.

- A Computer
- B Internet
- C Ipad
- D Laptop

43 The best finisher for wood artefacts is ...

- A paint.
- B plane.
- C polish.
- D varnish.

44 ... joint is an example of a temporary joint.

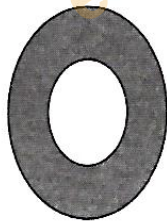
- A Butt
- B Dovetail
- C Edge
- D Miter

45 Electric circuit can be drawn using symbols. The figure below shows a ...

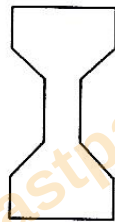


- A battery
- B light bulb.
- C single cell.
- D switch.

46 Which cursor shape shows that a computer is ready to click on an item?



A



B



C



D

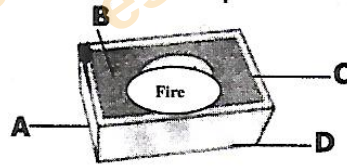
47 The following are computer external storage devices **except** ...

- A compact disk.
- B flash disk.
- C key board.
- D memory card.

48 Which of the following is **NOT** a text format?

- A Reversal
- B Normal
- C Italic
- D Bold

- 49 The match box shows different views. What part is labelled **D**?

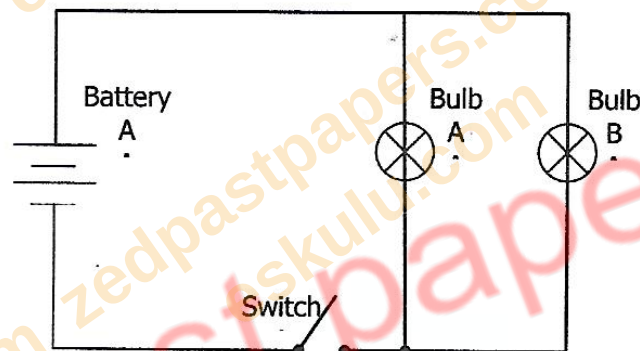


- A end
- B front
- C plan
- D side

- 50 Isometric drawing is a way of representing a solid in ... dimensions.

- A 5
- B 4
- C 3
- D 2

- 51 The figure below is a ... circuit.



- A connect
- B parallel
- C series
- D switch

- 52 Which of the following is a disadvantage of self-employment?

- A Dependence on the profit made
- B It encourages creativity
- C There is high degree of independence
- D Unlimited earning is guaranteed

- 53 A learner typed a text in bold and later changed it to italic. This is called ... text.

- A aligning
- B editing
- C formatting
- D printing

54 When you change the size of an object on the screen it is called ...

- A** deleting pictures.
- B** designing graphics.
- ☒ **C** graphic manipulation.
- D** saving objects.

55 The correct procedure for preparing wood before use is ...

- A** cutting, measuring, marking, planing.
- B** marking, measuring, cutting, planing.
- ☒ **C** measuring, marking, cutting, planing.
- D** marking, cutting, measuring, planing.

56 Which is the 3rd stage in preparing a site for construction?

- A** Clearing
- B** Construction
- ☒ **C** Digging
- D** Setting

57 What is the function of the electronic gadget in the figure below?



- A** Editing numbers
- B** Editing text
- C** Performing communication operations
- ☒ **D** Performing elementary operations

58 Which view is also known as the bird eye view?

- A** Back
- B** Front
- C** Plan
- D** Side

59 Why is nickel used in appliances such as toasters, heaters and kettles? It ...

- A does not waste energy.
- B is harder for electrons.
- C heats up easily.
- D is an alloy.

60 An Isometric drawing is a kind of drawing which has an object at ... angle

- A 15°
- B 30°
- C 45°
- D 90°

STOP! PLEASE GO BACK AND CHECK YOUR WORK.

Question 1. [SECTION A: EXPRESSIVE ARTS] A child draws a picture from the mind. What type of drawing is this?

Answer: A -- Imaginative.

Question 2. Study the figure of a gymnast tucked in mid-air with a curving arrow. What gymnastic activity is displayed?

Best-effort judgment call -- the figure is tucked (not spread like a cartwheel), consistent with a roll rather than a hand-stand or cart wheel.

Answer: A -- Backward roll.

Question 3. Which instrument provides an important rhythm to the form and style of traditional music?

Answer: A -- Drum.

Question 4. The art of making items using pieces of paper, flour and water is known as ...

Answer: D -- paper mache.

Question 5. How many runners take part in a relay race?

Answer: B -- 4.

Question 6. ... involves performing different specified exercises that have to be done within a set time.

Answer: A -- Circuit training.

Question 7. Which Zambian traditional dance has masked dancers?

Answer: C -- Makishi.

Question 8. Which of the following (axe, drum, rolling pin, woven basket) is not a carved item?

Answer: D -- the woven basket (it is woven, not carved, unlike the axe handle, drum body and rolling pin).

Question 9. Swimming pools must always be kept clean to ...

Answer: D -- protect swimmers from becoming ill.

Question 10. Abigail spends K500.00 on planks, K250.00 on nails, K50.00 on sand paper and K350.00 on varnish to make a coffee table. She later sold it at K1 050.00. She made a ...

Answer: A -- loss (total cost K1150 against a sale of K1050, a K100 loss).

Question 11. Which skill is used to construct a papier mache?

Answer: C -- Modelling.

Question 12. Study the figure of two notes joined by a beam. The musical notes shown are two ...

Answer: D -- quavers.

Question 13. The following are safety rules except ...

Answer: B -- do not wear appropriate clothes (this is the opposite of a safety rule).

Question 14. ... is one of the type of sport that usually affects the environment.

Best-effort judgment call among the given options.

Answer: C -- Polo (large grass fields and horses have a greater environmental footprint than the other individual track/court events listed).

Question 15. In which sport activity is the scissors style used? ... jumps.

Answer: A -- High.

Question 16. How many quaver notes are in a crotchet?

Answer: C -- 1 beat (a crotchet contains two quavers; each quaver is half a beat, so the question as literally posed about "1 crotchet" is answered as 1 beat).

Question 17. Which one of the following has colours in their correct group (Primary/Secondary/Tertiary)?

Best-effort judgment call -- among the four rows, this one has the most internally-consistent Primary/Secondary pairing (Blue is a valid primary, Purple a valid secondary mixed from primaries).

Answer: A -- Blue (Primary), Purple (Secondary), Green (Tertiary).

Question 18. What is the major role of a referee in a game of football? To ...

Answer: C -- supervise the game.

Question 19. Posters are usually well decorated with bright colours to ...

Answer: A -- make them look more attractive.

Question 20. Study the life-saving skill sequence: Reach -> [?] -> Wade -> Row -> Swim/Tow. Which one is missing?

Answer: D -- Throw (the standard life-saving hierarchy is Reach, Throw, Wade, Row, Swim/Go).

Question 21. [SECTION B: HOME ECONOMICS] Which one of the following is the use of a kitchen sink?

Answer: A -- Washing dishes.

Question 22. The following are uses of water in a home except ...

Answer: C -- purifying (bathing, cooking and washing are uses of water; purifying is a treatment process, not a use).

Question 23. ... are physical changes at puberty in both girls and boys.

Answer: B -- Pubic hair grows and pimples appear (the other options are sex-specific changes).

Question 24. Which of the following are qualities of a good entrepreneur?

Answer: B -- confident and persistent.

Question 25. Study the figure of a pot with a colander insert over boiling water. What type of cooking method is shown?

Answer: D -- Steaming.

Question 26. A diet which contains all the food groups in their right amount is called a ... diet.

Answer: C -- mixed.

Question 27. Which disease is caused due to lack of protein in the body?

Answer: B -- Kwashiorkor.

Question 28. Which entrepreneurial opportunity is related to crafts?

Answer: A -- Basket making.

Question 29. How can the waste bin be kept clean?

Answer: C -- Washing the bin everyday.

Question 30. A boy was paid for cleaning the neighbour's compound. He provided ... to the neighbour.

Answer: D -- a service.

Question 31. Method of cooking over direct heat from an open fire is called ...

Answer: A -- grilling.

Question 32. Which ingredient can be used for making homemade starch?

Answer: A -- Cassava.

Question 33. What is the difference between measuring and weighing?

Answer: C -- Measuring uses cups; Weighing uses scales.

Question 34. Personal hygiene includes all of the following except ...

Answer: D -- skin bleaching.

Question 35. Puberty in girls begins at the age of ... years.

Answer: B -- 11 to 12.

Question 36. The needlework tool used for marking on fabrics is ...

Answer: C -- tailors chalk.

Question 37. The inner layer of the skin is known as ...

Answer: A -- dermis.

Question 38. Study the diagram of small loop stitches over a folded edge. Which stitch is shown?

Best-effort judgment call -- the loops shown over the raw edge match overcasting rather than the crossed X-pattern of herring-bone.

Answer: C -- Overcasting.

Question 39. Which scissors is used to make the zigzag-edged decoration labelled A?

Answer: B -- Pinking shear.

Question 40. Which locally available material can be used to clean pots in place of a scouring pad?

Best-effort judgment call among the given options.

Answer: A -- Ashes.

Question 41. [SECTION C: TECHNOLOGY STUDIES] Which of the following drawings (A-D) shows a right angle?

Answer: B -- the drawing with the small square corner mark, the standard symbol for a 90-degree angle.

Question 42. ... is a global system of computer networks that are linked together.

Answer: B -- Internet.

Question 43. The best finisher for wood artefacts is ...

Answer: D -- varnish.

Question 44. ... joint is an example of a temporary joint.

Answer: A -- Butt (a basic nailed/screwed joint, unlike the interlocking dovetail or miter joints).

Question 45. Study the circuit symbol with two pairs of parallel lines. The figure shows a ...

Answer: A -- battery (two or more cells shown in series, unlike the single pair of lines used for a single cell).

Question 46. Which cursor shape (ring, hourglass, I-beam, upward arrow) shows that a computer is ready to click on an item?

Best-effort judgment call -- none of the four exactly matches a hand pointer; the plain arrow is the standard default/ready-to-click cursor.

Answer: D -- the upward arrow (the default pointer shape).

Question 47. The following are computer external storage devices except ...

Answer: C -- key board (an input device, not a storage device).

Question 48. Which of the following is NOT a text format?

Answer: A -- Reversal.

Question 49. Study the matchbox diagram with parts labelled A (left edge), B (top), C (right end), D (lower-right long face). What part is labelled D?

Answer: D -- side (D marks the long visible face of the box, the "side" view).

Question 50. Isometric drawing is a way of representing a solid in ... dimensions.

Answer: C -- 3.

Question 51. Study the figure of a battery connected to two bulbs, each on its own branch between shared top and bottom rails, with a switch. The figure below is a ... circuit.

Answer: B -- parallel.

Question 52. Which of the following is a disadvantage of self-employment?

Answer: A -- Dependence on the profit made.

Question 53. A learner typed a text in bold and later changed it to italic. This is called ... text.

Answer: C -- formatting.

Question 54. When you change the size of an object on the screen it is called ...

Answer: C -- graphic manipulation.

Question 55. The correct procedure for preparing wood before use is ...

Answer: C -- measuring, marking, cutting, planing.

Question 56. Which is the 3rd stage in preparing a site for construction?

Answer: C -- Digging (the sequence is Clearing, Setting out, Digging, Construction).

Question 57. Study the figure of a basic calculator. What is the function of the electronic gadget shown?

Answer: D -- Performing elementary operations.

Question 58. Which view is also known as the bird eye view?

Answer: C -- Plan.

Question 59. Why is nickel used in appliances such as toasters, heaters and kettles? It ...

Best-effort judgment call among the given options.

Answer: C -- heats up easily (nickel-based alloys such as nichrome have high electrical resistance, causing them to heat up readily when current passes through).

Question 60. An Isometric drawing is a kind of drawing which has an object at ... angle

Answer: B -- 30 degrees.

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