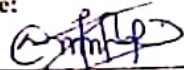


AUGUST 2021
EBS 169J
TRIGONOMETRY
1 HOUR 20 MINUTES

Candidate's Index Number: ABUE/245/20/0170
Signature: 

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, AUGUST 2021

AUGUST 6, 2021

TRIGONOMETRY

2:40 PM – 4:00 PM


SECTION B

Answer only **THREE** questions from this section. All questions carry equal marks.

- 1.
- a. A central angle θ subtended by an arc length of 7cm and a radius of 4cm. Find:
- the radian measure
 - the degree measure
 - the area of the sector determined by θ . (8 Marks)
- b. Two towns, $P(30^\circ N, 42^\circ W)$ and $Q(30^\circ N, 18^\circ E)$ are on the surface of the earth. Find, to one decimal place, the distance between P and Q along latitude $30^\circ N$. (Take the radius to be 6400km and $\pi = 3.14$). (12 Marks)
- 2.
- a. Show that the equation is an identity by transforming the left – hand side into the right – hand side.
 $(\sec \theta + \tan \theta)(1 - \sin \theta) = \cos \theta$. (8 Marks)
- b. Show that $3\cos \theta + 4\sin \theta$ may be expressed in the form $R\cos(\theta - \alpha)$, where α is acute. Find the values of:
- R
 - α . (12 Marks)

- 3.
- a. Find the amplitude, the period, and the phase shift and sketch the graph of $y = 2 \cos(3x - \pi)$. (10 Marks)
- b. A helicopter sets out from its base P and flies on a bearing of 123° to point Q where it changes its course to 060° and flies 18km to point R .
- i. Find the size of the angle PQR .
- ii. calculate the bearing on which the helicopter must fly to return directly to its base. When the helicopter is at point R it is 22km from its starting point. (10 Marks)
- 4.
- a. Express $\cos^4 x$ in terms of values of the cosine function with exponent 1. (8 Marks)
- b. When the angle of elevation of the sun is 64° , a telephone pole that is tilted at an angle of 9° directly away from the sun casts a shadow 21 feet long on level ground. Calculate the approximate length of the pole. (12 Marks)

AUGUST 2021
EBS147
HIV AND AIDS AND ENDEMIC DISEASES IN AFRICA
40 MINUTES

Candidate's Index Number
ASBCE/JHS/20/0170.
Signature: 

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION

FOUR -YEAR BACHALOR OF EDUCATION (B.ED)
END OF SECOND SEMESTER EXAMINATION AUGUST, 2021

AUGUST 4, 2021 EBS147 HIV AND AIDS AND ENDEMIC DISEASES IN AFRICA 9.45AM - 10.25AM

SECTION B

(60 MARKS)

Answer only ONE question from this Section

1. a) List five misconceptions people have about HIV/AIDS. 20marks
b) Explain four potential effects of endemic diseases on the family. 40marks

2. a) Differentiate between sexual harassment and sexual abuse. 20marks
b) Explain four things education can do to HIV/AIDS when infection has not yet occurred. 40marks

3. a) State five ways by which one puts on and remove either the male or female condom 20marks
b) State and explain any four (4) theories that seek to explain the origin of HIV. 40Marks

AUGUST 2021
EBS 168J
LEARNING THEORIES FOR
TEACHING WITH COMPUTING
1 HOUR 5 MINUTES

Candidate's Index Number:

ABUE/JHS/20/0170

Signature:



UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, AUGUST 2021

AUGUST 2, 2021

LEARNING THEORIES FOR TEACHING
WITH COMPUTING

2:25 PM – 3: 30 PM

SECTION B
[40 marks]

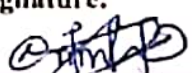
Answer any TWO questions from this section.

1.
 - a. Computers foster creativity in the constructivist classroom. Explain.
 - b. Beyond the classroom, computer networking allows students to communicate and collaborate with content experts and with fellow students around the globe. List any two communication tools that allow this for this type of communication.
 - c. State three characteristics of theory.
 - d. There are four major reasons why people forget and one of them is *retrieval failure*. What is retrieval failure?

2.
 - a. Many of Skinner's instructional techniques are still widely used today. State any three of them.
 - b. State three theoretical rules that constructivism gives to designers of computer-based education.
 - c. Differentiate between *accommodation* and *assimilation*.
 - d. State how the long-term memory is related to storage of information.

- 3.
- a. To assist a person to move through the zone of proximal development, educators are encouraged to focus on three important components which aid the learning process. What are these learning processes?
 - b. In a computer, information is stored on a hard disk, which is equivalent to the long-term memory. Explain.
 - c. State **two** implications of accommodation and assimilation for the ICT classroom.
 - d. Explain the term *tabula rasa*.
- 4.
- a. Vygotsky's theory of sociocultural learning highlights the role social and cultural interactions play in the learning process. Explain how this can be applied in the ICT classroom.
 - b. Explain Thorndike's law of effect.
 - c. State **any three** characteristics of a constructivist classroom.
 - d. State **any two** educational implications of Pavlov's experiment to ICT classroom situations.

JULY 2021
EBS 135
ENGLISH LANGUAGE STUDIES I
2 HOURS

Candidate's Index Number: ABCE/JHS/20/0170
Signature: 

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, JULY 2021

JULY 28, 2021

ENGLISH LANGUAGE STUDIES I

2:00 PM – 4:00 PM

This paper consists of two sections, A and B. Answer ALL the questions in BOTH Sections.

SECTION A
(15 MARKS)

1. Read the passage carefully and answer the questions which follow.

Speaking broadly, there are three types of leaders. There are those who lead from the front, those who lead from the rear, and those who lead from afar. Leaders who position themselves right in the front are rare. They do not only give orders and directive, but also assume responsibilities themselves. They tax themselves as much as possible, if not much more than they tax others. They think, plan and make decisions for the common good. They set examples and thus ensure that they are as disciplined as they want others to be. Thus, you will not hear them merely demanding that others must be punctual, they are actually among, the first to be at work. Perhaps no other historical figure exhibited this leadership characteristic better than Richard the Lionheart, the English King who always led his army personally into battles, always maintaining his position.

Staying squarely there, fighting like any other common soldier, he set standards and thus commanded respect. His men had no choice but to exert themselves to the utmost. No wonder, he won virtually all his battles even when he set his forces against much larger armies in seemingly impregnable castles. Almost all the kings of his time fought battles personally, but none other than he, stayed in the front.

Then there are leaders who lead from the rear. These leaders give orders and follow up to ensure their execution. But they insulate themselves from the centre of activity. Because of their style of leadership: giving orders but not personally setting standards, they are feared rather than respected. They achieve results but often at the expense of the love of their followers. They are slave drivers who never share the rigours of the work involved.

Finally, there are those who vacate their leadership posts, almost entirely. They are absentee leaders who direct by remote control, if they try to direct at all. They leave instructions about punctuality, neatness, steadfastness, hard work and so on, but they do not practise any of these.

Their deputies, thus have to use their initiative to decide how best to achieve results. In such a situation, failure is not uncommon.

One may then ask why a leader would choose to be absent from his post. The fact is there are many leaders who want the position just for the honour but are not prepared to exert themselves. They are only interested in reaping the fruits of leadership. They enjoy the title, the financial and non-monetary rewards, and being worshipped by others; but they shy away from the arduous task of thinking, planning and deciding for others' welfare. Sadly there are many more such leaders than we often realise.

- a. What does the writer mean by leading from the front?
- b. Why are those who lead from the front most likely to succeed?
- c. What do those who lead from the front have in common with those who lead from behind?
- d. Who does the work of the absentee leader?
- e. According to the writer, which of the three types of leaders dominate in the world?
- f. "Almost all the kings of his time fought battles personally, but none other than he, stayed in the front." What does this statement suggest?
- g. "they shy away from the arduous task of thinking, planning and deciding for others' welfare..." Which type of leaders are referred to in this statement?
- h. Explain the following words/phrases as used in the passage.
 - i. rear
 - ii. rare
 - iii. exhibited
 - iv. exert
 - v. insulate

SECTION B (45 MARKS)

2. Identify the word class (eg. noun, verb, etc.) of each of the underlined words as used in the passage below. (10 marks)

Three months after the Ga South Municipal Assembly promised to start workⁱ on the six-kilometre Bortianor-Redtop Road from Ajasco Sea View to West Hills in the Greater Accra Region, there has been no show so far on the road. The distance is the shortestⁱⁱ route motorists use to connect to the West Hills Mall and its environsⁱⁱⁱ from Kokrobite, Oshiyie and Bortianor but has remained impassable for a few years.

The onset^{iv} of the rains has further worsened the state of the road, widening^v and deepening the gullies^{vi} on both sides of it, exposing bigger rocks from the ground in the process as a result of erosion. Currently, it has become particularly difficult for two vehicles from opposite directions to use it at the same time as drivers meander^{vii} their way through a narrow path. Some taxis refuse to ply the stretch, especially^{viii} when it rains, complaining about^{ix} the constant breakdown^x of their vehicles on that road.

3. Re-write the following passage correcting ALL punctuation errors. (10 marks)

The Suhum Circuit court in the Eastern region has sentenced a student of Apatiso Senior High school to two years imprisonment for threatening to kill a male teacher of the school. The convict, aged 21 pleaded guilty to a charge of threatening to kill his teacher. The teacher, Kwadwo Adei, reported that he met the student in town about a few weeks ago and questioned him about his absence from school.

The convicted student, nicknamed "Joe Swani, after his engagement with the teacher, shot a video showing him brandishing a machete and threatening to slash the throat of the teacher when he returned to school on Monday. Heerh, tell Adei (the teacher) that Monday I'll come to school. I learnt hes looking for me. Why have I steal (sic) anything or what? You have seen the machete, I'll slash his throat like how they slash the idols, he said.

4. a. Arrange the adjectives in the following sentences correctly. (1 mark x 5)

i. The scientist designed the new washing machine.

- A. brilliant Ghanaian young
- B. Ghanaian brilliant young
- C. young Ghanaian brilliant
- D. brilliant young Ghanaian

ii. I was presented with a

- A. fearful-looking big black cat.
- B. big fearful-looking black cat.
- C. black fearful-looking big cat.
- D. big black fearful-looking cat.

iii. We took a ride on

- A. a blue, old British bus.
- B. a British, old, blue bus.
- C. an old, blue British bus.
- D. an old British blue bus.

iv. I like that antique boat in the museum

- A. really big red old
- B. really big old red
- C. old, red, really big
- D. red, really big old

v. We went for a two-week cruise on a ocean liner.

- A. incredible brand-new, huge Italian
- B. incredible, huge, brand-new Italian
- C. Italian incredible, brand-new, huge
- D. brand-new, incredible Italian huge

- b. Identify the structure of the sentences below (simple, compound etc.) (1 mark x 5)

i. This new laptop computer, which I bought yesterday, has already crashed twice; however, I have no idea why.

ii. This new laptop computer has already crashed twice.

2 ind
1 dep

- iii. This new laptop computer, which I bought yesterday, has already crashed twice.
- iv. This new laptop computer has already crashed twice, and I have no idea why.
- v. After getting home from work, my brother and I went to the mall last night, while my sister stayed home and studied.

1 Ind 2 dependent Complex

5.

a. How are the following words formed in English? Eg. conversion, compounding, etc.

(1 mark x 5)

- i. Telly
- ii. Brunch
- iii. blackboard
- iv. improper
- v. smog

b. Identify the number of morphemes in the following words.

(1 mark x 5)


- i. Problematic
- ii. Blew
- iii. Auditorium
- iv. Synthetic
- v. tantalize

c. Identify the type of phrase underlined in the sentences below.

(1 mark x 5)

- i. The man was running very fast.
- ii. She wears an extremely long black hair.
- iii. Ama hid the book at the back of the house.
- iv. She played the organ to entertain the group.
- v. They may have been seen in the dark.

JULY, 2021
EBS 153
OFFICE SUITE IN EDUCATION
1 HOUR

Candidate's Index Number: ABCE/JHS/20/0170
Signature: 

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, JULY/AUGUST, 2021

JULY 29, 2021

OFFICE SUITE IN EDUCATION

10:00 AM – 11:00 AM

SECTION B
[20 Marks]
Answer TWO questions from this section.

Question 1

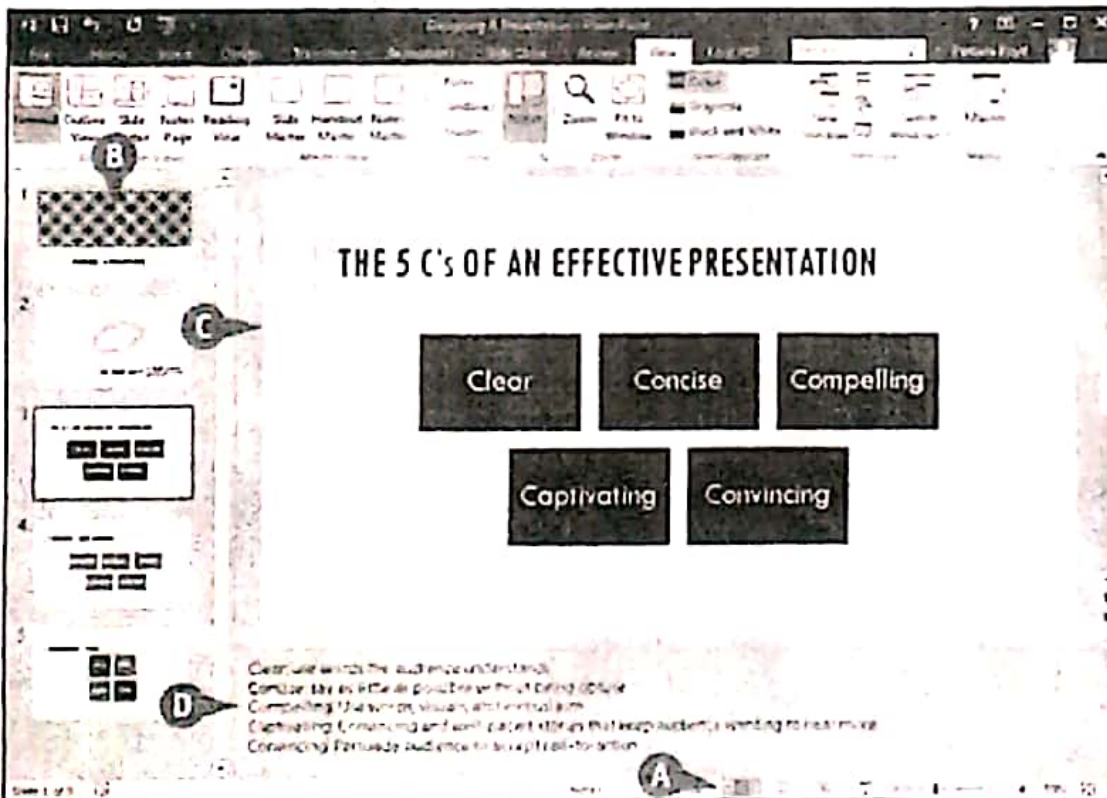


Figure 1

1. a)
- i. What application interface is labeled Figure 1? [2 Marks]
 - ii. Identify the parts labeled A to D. [2 Marks]
 - iii. What is the use of the parts labeled C and D? [4 Marks]
- b) State any two ways one can experience word wrap in MS Word. [2 Marks]

2. Use the spreadsheet below (grade book) to answer the following questions:


	A	B	C	D	E	F
1	NAME	MATHS	ENGLISH	HIV	Total	Average
2	Mike Free	85	98	95		???
3	John Brown	67	87	90		
4	Allan Kyei	79	77	92		
5	David Sharp	86	88	85		
6			???		???	
7		???				
8						???

- i. Provide a formula for calculating the average mark for Mike Free in the cell F2. [2 Marks]
 - ii. Provide a formula for calculating the total for David Sharp in cell C6 [2 Marks]
 - iii. Write down a formula for determining the highest mark for Maths in cell B7 [2 Marks]
 - iv. Write down the formula to the final total for all items in cell E6 [2 Marks]
 - v. Write a formula to input today's date in cell F8 [2 Marks]
3. a) In the worksheet below are standard Excel functions to find the following. Use the spreadsheet below to answer the questions that follow.

	A	B	C	D	E
1		January - March	April - June	July - September	October - November
2	Opening Bank Balance	20000			
3	Expenditure				
4	Wages	2340			
5	Electricity/Materials	700			
6	Overheads	1200			
7	Total Expenditure	?????			
8					
9	Sales Income	13200			
10	Profit this quarter	?????			
11	Closing Bank Balance	?????			

- i. Provide the formula for calculating the "Total (Expenditure)" for cell B7. [2 Marks]
 - ii. In cell D2, provide the formula for calculating the profit for one quarter. [2 Marks]
 - iii. Provide a formula for calculating the closing bank balance for cell B11. [2 Marks]
- b) Why is it necessary to save a newly opened document? [2 Marks]
- c) What will make E11 an absolute reference? [2 Marks]

JULY, 2021
EBS 124J
COLLEGE GEOMETRY
1 HOUR 30 MINUTES

Candidate's Index Number: ABCE/JHS/20/599 0170
Signature: 

UNIVERSITY OF CAPE COAST
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INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, JULY/AUGUST, 2021

JULY 26, 2021

COLLEGE GEOMETRY

2:40 PM – 4:00 PM

SECTION B
(60 MARKS)

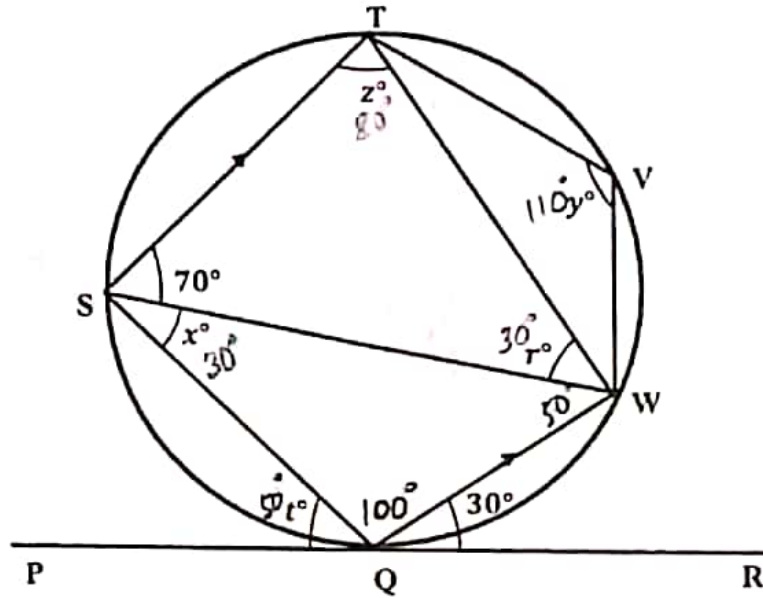
Answer only THREE questions from this section

1. (a) Using a ruler and a pair of compasses only;
 - (i) Construct triangle ABC in which $AB = 10\text{cm}$, $BC = 6\text{cm}$ and angle $ABC = 45^\circ$.
 - (ii) Locate the point D inside the triangle ABC such that D is equidistant from AB and AC and 5cm from B
 - (iii) Construct the perpendicular to AC through D. Label, Y, the point of intersection of the line AC and the perpendicular from D.
 - (iv) Measure $|AY|$ [10 Marks]

- (b) The equation of a circle is $x^2 + y^2 + 3x - 4y - t = 0$. Given that the radius of the circle is $\frac{7}{2}$, find the value of t . [10 Marks]

2. (a) The equations of two circles are $x^2 + y^2 - 2x + 4y = 4$ and $x^2 + y^2 + 4x - 6y = -12$.
 - i) If a line passes through the centers of the two circles, find the equation of the line [9 Marks]
 - ii) If the centers of the two circles in (a) are the ends of a diameter of another circle, find its equation. [11 Marks]

3. In the diagram Q, W, V, T and S are point on the circumference of the circle. If ST is parallel to QW and PR is a tangent to the circle at Q , find the values of the angles marked x, y, z, t and r [Provide reasons for your answers]

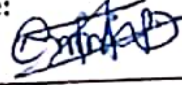


- 4) a) $E(0, 1), F(1, 3)$ and $G(3, 0)$ are the vertices of a triangle. Find the coordinates of the point:
- (i) P that divides FG externally in the ratio $2:1$; [5 marks]
 - (ii) S that divides EF internally in the ratio $2:3$. [5 marks]
- b) Find, correct to two decimal places, the total surface area of a regular square pyramid that has base length of 50 cm and lateral length of 60 cm. [10 marks]

JULY 2021
EBS 137T
GHANAIAN LANGUAGE AND CULTURE:
CULTURAL STUDIES (TWI)
1 HOUR 30 MINUTES

Candidate's Index Number:
ABCE/JHS/20/0170

Signature:



UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, JULY 2021

JULY 29, 2021

GHANAIAN LANGUAGE AND CULTURE:
CULTURAL STUDIES (TWI)

2:30 PM – 4:00 PM

ɔFA B

Bua nsemmisa MMIENU pe firi saa ɔfa yi mu.

1. Edeen ne amammerɛ? Gyina nhwesɔɔ enan a edi mu so fa pensɛmpensɛm amammerɛ su enan mu yie
2. Kyere Akanfoɔ amammerɛ mmiensa bi a wosusu sɛ eho nni mfasoɔ/ ne bere atwam enne mmere yi na kyere ekwan a yebefa so ama eho aba nyam.
3. "Amammerɛ nyini na entɔ ape". Gyina nhwesɔɔ mmiensa bi a edi mu so fa pensɛmpensɛm saa asem yi.
4. Ebinom asem ne sɛ Aborɔfo Asempatre abɔfoɔ a wɔbaa Ghana ha no na wɔbɛkyerɛ Abibifoɔ sɛ Onyankopɔn bi wɔ ho" . Gyina nhwesɔɔ enan bi a edi mu so pensɛmpensɛm saa asem yi mu yie