UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019 BS Zoology Session:2017-21

Course Code: MATH2115 Subject: Basic Algebra

SECTION: I (MCQ's)

Time Allowed: 20 Minutes

Max. Marks: 18

NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed.

79 No. ' Roll No. (in fig.)_ Roll No. (in words) Candidate's Signature. Signature of Addl. Supdt.

Q

1.							
•	For any subset A a	and B of U. (A\triangle B)					
	a) A∩B	b) A∪B	c) A ^c ∩B ^c	d) A ^c ∪B ^c			
•	Identity relation in	n A = {1, 2, 3} is					
	a) {(1, 1), (2, 2)} b) {(1, 1)} c) {(1, 1), (2, 2), (3, 3)} d) {(2, 2)}						
•	What comes next			1) 00			
	a) 82	b) 84	c) 86	d) 88			
•	If f(x) = -2x+8, the b) 9/2	n f (1) = b) 7/2	c) 2/9	d) 0			
•	What is the 11 th to	, ,		۵, ٥			
	a) 2 ⁸	b) 2 ¹⁰	c) 3 ⁸	d) 3 ¹⁰			
•	Two distinct squa	re roots of unity ar	·e				
	a) -1, 1	b) -1, ω	c) 1, -ω	d) -1, -1			
•	Matrix which does	s not have an inve	rse by solving it, is	classified as			
	a) Undefined ma	trix b) Linear ma	trix c) Non-sing	ular matrix d) Singular	matrix		
•	If roots of x^2 - 5x +	-a = 0 are equal, the	nen <i>a</i> =				
	a) 25/5	b) 25/4	c) $\pm 25/4$	d) $\pm 25/5$			
•	Period of cot(x) is.	,					
	a) π	b) 2π	c) 3π	d) 4π			
•	If $x^2 - 7x + a$ has a	remainder 1 when	divided by $x + 1$, t	hen			
	a) $\alpha = -7$	b) $a = 7$	c) $a = 0$	d) $a = 1$			
•	Coefficient of the	x ³ in the expansior	of $(1 - x + x^2)^5$	is			
	a) -30	b) -20	c) -10	d) 30			
•	Sum and product	of roots of equation	on $x^2 - kx + k^2 = 0$ a	re			
	a) k , k^2		c) - <i>k, k</i> ²	d) $-k^2$, k			
•	If $\cos\theta = 1/\sqrt{2}$, the	n θ is equal to			,		
	a) 30°	b) 45°	c) 60°	d) 90°			
•	•	s of $x^2 - 2x + 3 = 0$,	then equation wit	h roots 1/α, 1/β is			
	a) $x^2-6x+11=0$		c) $x^2-11x+6=$				
				V			
•	Constant term in t		$1 + \frac{1}{2} - \frac{1}{x}$ IS		1.		
	a) 5	b) -5	c) 4	d) -4			
• 1				uation with roots -3ω an	a -3w* is		
	a) $x^2+3x+9=0$	b) $x^2-3x+9=0$	c) $x^2-2x+4=$	= 0 d) $x^2 + 2x + 4 = 0$			
•	$\cos^2\theta/2 =$			3	2		
	a) 1- $\sin^2(\theta/2)$	b) 1- sin ² 0	c) cosec ² (2	the state of the s			
•	System of measure	ement in which an	gle is measured in	radians called the			
) Charles system	h) MKS syste	em c) CGS sy	stem d) Sexagesimal:	system.		

b) MKS system

a) Circular system

NIVERSITY OF EDUCATION UExam" Semester-IV, 2019

MA Education/MA Education L & M, Session:2017-19

Course Code: ENGL2115 (Educational Research) Subject: Technical Writing and Presentation Skills

SECTION: I (MCQ's)

Time Allowed: 20 Minutes

Max. Marks: 18

NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed.

No.	44
Rol	l No. (in fig.)
I	Roll No. (in words)
	Candidate's Signature.
	Signature of Addl. Supdt.

Q1.

• Eye contact of longer a) 2-3	than second	le con males a mardiala	
a) 2-3	b) 3-5	is can make a particip	ant uncomfortable.
•		c) 1-2	d) none of these
a) 75%	is delivered via nonverba		
-	b) 55%	c) 80%	d) none of these
a) sensore details	ive writing contains		
An alphabetical I	b) story telling	c) amusement	d) none of these
An alphabetical list of tout			
a) text	b) appendix	c) glossary	d) index
• Aexp	lains fictional events and	characters in a sequen	itial manner.
a) wiyiii	b) Autobiography	c) short story	d) Novel
 The way to stand and 	sit is called		
a) Posture	b) movement	c) gesture	d) facial expression
 In order to remove sta 	ige fright we should use		,
a) podium	b) lecterns	c) voice	d) both a & b
 which one of the following 	owing is not a visual aid	•	,
a) Flip charts	b) posters	c) graphs	d) paralanguage
	red by reading from notes	S	-) paramagaage
	b) memorization	c) manuscript	d) extemporaneous
 highness and lownes 	s of voice is called		a) ememperaneous
a) pitch	b) accent	c) pronunciation	d) rate
• writing	is the art of describing p	places, persons objects	and events
a) argumentative	b) Narrative	d) discursive	
 telling examples to e 	xplain something is called		o) adddiptive
a)narration	b)description	c)illustration	d)process analysis
 Synopsis is 			
a) research proposal	b) annotation	c) summary d) no	ne of these
is a po	pular tool that helps you g	generate creative soluti	on to the problem
 a) essay writing 	b) report writing	c) research proposal	d) brainstorming
• A rep	oort is a written document	regarding the status of	an activity
a) technical	b) progress	c) feasibility	d) none of these
	ss report is		
a) work remaining	b) work accomplished	c) names of people	d) none of these
 Time division of Ma 	in body in a presentation	is	, , , , , , , , , , , , , , , , , , , ,
a) 15%	b) 45%	c) 10 %	d) 60%
is the n	nain idea/central point of y	our research paper	
a) thesis statement	b) dissertation	c) preface	d) none of these

UNIVERSITY OF EDUCATION

"UExam" Semester-IV, 2019 BS Zoology Session:2017-21

Course Code: MATH2115 Subject: Basic Algebra

Time Allowed: 100 Minutes.

Max. Marks: 42

Section II (Short Answer)

Q.2- Write short answers of the following.

3x6 = 18

- (i) If we subtract 27 from three times a certain number, the result is 18. Find the number.
- (ii) Find the tenth term in the expansion of $(2x^2 + \frac{1}{x^2})^{25}$.
- (iii) Solve $2x^2 + 12x 5 = 0$ by completing square method.
- (iv) Solve the following system by Cramer's rule.

$$6x+3y = 2$$

$$3x+2y = -4$$

- (v) Prove that for all positive integers n, the number 3^{2n} 1 is divisible by 8.
- (vi) Find three cube roots of 27.

Section III (Essay Type)

Answer the following Questions

6x4 = 24

- Q. 3: State and prove binomial theorem.
- Q. 4: A strip of uniform width cut from both sides and both ends of a 5-inch by 7-inch photograph reduces the size of the photo to an area of 15 square inches. Find the width of the strip.
- **Q. 5:** Find the sum of $1 + \frac{1}{2} + \frac{1}{4} + ... + \frac{1}{256}$.
- **Q.6:** Verify that f(x) = 4x-5 and $g(x) = \frac{x+5}{4}$ are inverse functions.

UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019

MA Education/MA Education L & M, Session:2017-19

Course Code: ENGL2115 (Educational Research) Subject: Technical Writing and Presentation Skills

Time Allowed: 100 Minutes.

Max. Marks:

Section II (Short Answer)

Q.2- Write short answers of the following.

3x6 = 18

- What is the importance of table of contents in a formal proposal?
- ii. Define descriptive essay.
- iii. Define Memorization.
- iv. What does the term glossary mean?
- Give three points to decrease stage fright. ٧.
- Write three means of nonverbal communication vi.

Section III (Essay Type)

Answer the following Questions

6x4 = 24

- Q.3 write down Parts of a progress report.
- Q.4 Jot down essential steps for preparing presentations effectively.
- Q.5 what are the basic steps of a research proposal?
- Q.6 write an essay of (100-120)words on any one of the following.

Energy Crisis

Or

Causes of Popularity of Fast food Resturants