APE	R: Logic and Cri	itical Thi	nking		ALLOWED: 30 mins.	
ours	e Code: SOC-102	2		MAX.	MARKS: 10	
	A	ttempt th		Question Sheet	only.	
_		12	(Objective		N NIL IS (NUMBER)	
Q. #	1: Encircle the c	orrect ar	*		ot allowed: (10)	
a))c		an both be true at the same time but o		can never be false simultaneously	
	i) Contradictories	ii)	Sub-Contraries	iii) Contraries	iv) Contingents	
b)	Aargu	ment is eit	her valid or invali	d.		
	i) Deductive		Inductive	iii) Correct	iv) Probable	
c)	In a	raumont .	va alwave move fr	1000 - 1000 - 1000 - 1000	es to particular conclusion.	
c)			Deductive	iii) Correct	iv) Invalid	
d)	1220 000 000 000 000 000 000 000 000 000			n never come in the premises of any syllogis		
u)			can never co Major Term			
	i) Minor Ter Term	m ii)	Major Term	ni) Middi	le Term iv) Predicate	
e)	The contrapositive	of		proposition is	always valid	
c)	i) E	ii) O	iii) I	iv) A	unujs indu	
D				5.	ument because of committing	
~	fallacy of exclusive		,			
	i) AAA	ii) EAE	iii) O	00 iv	/) IAI	
g)	If A proposition is		1993 5 99		,	
8/	i) True	T C	iii) U	ndetermined	iv) Probable	
b)	"Do not beat your		10100 × 010-1		· · · · · · · · · · · · · · · · · · ·	
	i) Informative		Expressive	iii) Directive	iv) Ceremonial	
i)	Inference from a si	ingle premi	se is called:	130 5		
938 -	i) Mediate	ಹಲ್ಲ ಚಿ	ediate	iii) Indirect	iv) Immediate	
Ð						
.,	A syllogistic argument must contain exact i) Mediate ii) Intermediate			iii) Indirect iv) Immedia		

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2017 First Semester

Examination: B.S. 4 Years Programme Roll No.

PAPER: Logic and Critical Thinking **Course Code: SOC-102**

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Subjective Part (Short Questions)

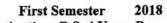
Answer the following questions, each question carries equal marks. (20 Marks)

- 1. Explain the difference between universal proposition and Particular Proposition?
- 2. What are Contraries?
- 3. Define mood and figure of Syllogism.
- 4. Define Middle term.
- 5. Define an Immediate Inference with example.
- 6. Define the directive use of language.
- 7. What is Quality?
- 8. Define the role of Contraries.
- 9. Define major premise with example.
- 10. What is the Fallacy of Exclusive Premises?

Subjective Part (Long Questions)

Answer the following questions, each question carries equal marks. (30 Marks)

- 1. What is the role of Logical Reasoning in our life? Discuss in detail
- 2. Use Venn Diagram to test the validity of the following.
 - **b)** EAE-4 a) AAA-1
- 3. What is the difference between Induction and Deduction? Discuss with examples.



Roll No. Examination: B.S. 4 Years Programme :

PAPER: Logic and Critical Thinking **Course Code: SOC-102**

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Questions (with Short Answers)

Question No:2

a) Write short answers of the following questions. (20 marks)

- 1) What is the difference between Major Premise and Minor premise?
- 2) State the "quality" of Four standard forms of Categorical Propositions.
- 3) Draw the Venn Diagram for 'I' Proposition.
- 4) Define Major, Minor and Middle terms of a Syllogism.
- 5) Define the 'Fallacy of Exclusive Premises' and offer an example.
- 6) Why AAI-4 is not a valid syllogistic argument?

b) Translate the following sentences into symbolic logic. Use the first letter of the underlined words.

- 1) Qasim and Parvez went to shopping.
- 2) Either Shabana will go to the picnic or Maryam will attend the party.
- 3) Pakistan will win the match if all players will be playing well.
- 4) Aslam is a doctor but Zahid is not a teacher.

Questions (Brief Answers)

Question No:3 Check the validity of the following argument with the help of truth table. 5,5

1	A⊃B	2	P·Q
	$B \supset C \therefore A \supset C$		QvP ···QvQ

Question No:4 Explain the six rules and formal fallacies of Syllogism. 10

Question No:5 Write a comprehensive note on the uses of language and offer appropriate examples to explain each. 10





First Semester – 2019

Examination: B.S. 4 Years Program

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• Roll No	
Roll No.	•••
MAX. TIME: 2 Hrs. 45 Mi	n.
MAX. MARKS: 50	

PAPER: Logic and Critical Thinking Course Code: SOC-102-N Part – II

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2.(a) Answer the following short questions.

- 1. What is the difference between Universal and Particular Propositions?
- 2. Define "middle term and Major term" with example.
- 3. What are "Coversion" and "Obversion"?
- 4. What is "Distribution"?
- 5. What is Quantity?

Q.2.(b) Translate the following into symbolic logic. Use first letter of the underlined words.

- a) <u>Iran</u> will raise the price of oil and <u>Jordan</u> will buy five hundred more warplanes.
- b) Neither Panama nor Indonesia will join the meeting.
- c) Saima will cook food if Yusra will help.
- d) Either John is a <u>political</u> or he is not a <u>politician</u>.
- e) If <u>Iran</u> raises the price of oil and <u>Jordan</u> requests more U.S aid, then <u>Egypt</u> will call for a meeting.

Q.3. Answer the following Long questions.

(3x10=30)

1. Discuss the uses of language with examples. 10

- 2. Use Venn Diagram to test the validity of the following. (5+5=10)
 a) AEA-4
 b) EAE-2
- 3. Check the validity of the following arguments with the help of truth tables. (5+5=10)

a) $(A \cdot B) \vee (B \vee A)$ $(A \cdot B) \vee (B \vee A)$ $(M \vee P) \supset (P \vee M)$ $(M \vee P) \therefore P \vee M$

24

(5x2=10)

(5x2=10)

	tical Thinking 2-N Part–I (Com	pulsory)	MAX. TIME: MAX. MARK		`,Signature of So
Please encircle the c	tempt this Paper of orrect option. Divisi	on of marks is	given in front	of each quest	tion.
This Paper will	be collected back af	ter expiry of t	ime limit ment	ioned above.	
1. Encircle the ri	ght answer, cutting	and overwr	iting is not all	owed.	(1x10=10)
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	gument is either		Correct or incorre	ect iv)	More or
i) Valid or Invalid	ii) True or Fa	alse III) C	offect of meory		
Less Probable				hut cor	he true
2)	cannot bot	th be false a	it the same t	ime but cat	i be true
simultaneously.					
i) Contraries	ii) Sub-Contraries	iii) Contrad	ictories iv) C	ontingents	
3) In	argument, reas	oning always	starts from	general pr	emises to
particular conc					
	ii) Inductiv	e iii)	Correct	iv) Invalid	
4) Major term n	ever appears in t	he		of any	syllogistic
argument.		200 m			
i) Mood	ii) Minor Premise				
5) The converse o	f A proposition is			·	
i) E	ii) O	iii) I		not- A	
6)	is a valid			l syllogism.	
i) AAA-4	ii) EAE-1	iii) 000-1	1V) .	III-1 ·	
7) If O proposition	n is given as false, th			iv) Probat	
i) True		iii) Undete		070-0 0 70-01-00	JIC.
8) " Happy Birth	day to you" is			iv) Cerem	onial
1) T. Compating) Directive	iv) ceren	Iomai
i) Informative	n a single premise is		Tatamadiate	iv) Imme	diate
9) Inference from	1	of 111) Intermediate	Iv) minie	
9) Inference from i) Mediate	ii) Indirec		proposition		
9) Inference from i) Mediate	ii) Indirec is a univ ii) I	ersal negative	proposition.) E	iv) O	



B.S. 4 Years Program : First Semester – Fall 2021

Paper: Logic and Critical Thinking

Course Code: SOC-102

Roll No. Time: 3 Hrs. Marks: 60

Q.1. Write short answers of the following questions.	(10x3=30)
i) Define Critical Thinking.	
ii) What is the difference between immediate and mediate inference?	
iii) Define contradiction with reference to the traditional square of opposition.	
iv) What is the Universal Negative Proposition	
v) Reconstruct the Venn Diagram for 'E' Proposition.	
vi) Define 'obversion' and give an example.	
vii) Define Major, Minor and Middle terms of a Syllogism.	
viii) Define the 'Existential Fallacy' and explain with an example.	
ix) Why the mood III remains invalid in any figure?	
x) What is verbal dispute/disagreement?	
Q.2. Answer the following questions.	(3x10=30)
i) Define the following with successful to such it and	

- i) Define the following with examples to explain each:
 - a) Fallacy of Exclusive Premises
 - b) Fallacy of Four Terms

ii) - What are the benefits of studying "Logic"?

iii) - Write a comprehensive note on the uses of language with examples to explain each.

First Semester 2015 Examination: B.S. 4 Years Programme Roll No.

PAPER: Logic and Critical Thinking Course Code: SOC-102

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

Q. 2. Write short answers of the following questions. (20 marks) i. Define Logic. ii. Define analogy and give an example. iii. What is meant by the strength of an Inductive Argument? iv. Make a difference between Cognitive and Emotive meanings of a statement. v. Draw a Venn Diagram for the following proposition:

"Some doctors are wise"

- vi. Define Obversion and give an example.
- vii. State the two rules of 'Sub-alternation' according to the Traditional Square of Opposition.
- viii. Construct the syllogistic form and test the validity of "AEE-1" with the help of Venn Diagrams.
- ix. Construct a truth table for a Conjunctive Proposition.
- **x.** Determine the truth value of the following symbolized statement if "A" and 'B' is called true and "Z" is called false:

 $(A \supset B) \supset Z$

Q.3 Write answers of the following questions.

(30 marks)

10

10

5

5

i. Define *Proposition* and explain the types of proposition according to *Quality* and *Quantity*.

ii. Explain the six Rules and Fallacies of Categorical Syllogism.

iii. A) Define and differentiate between simple and compound statements along with examples.

B) Determine whether the following symbolized argument is valid or Invalid by constructing a Truth Table:-

~E v F ~E ∴~F



Roll No.

First Semester 2015 Examination: B.S. 4 Years Programme

PAPER: Logic and Critical Thinking Course Code: SOC-102

TIME ALLOWED: 30 mins. MAX. MARKS: 10

Attempt this Paper on this Question Sheet only. (Objective Type)

Q. # 1: Encircle the correct answer, overwriting/ cutting is not allowed: (10)

"Validity" is a characteristic of: i) d) Deductive Argument c) Inductive Argument b) Proposition a) Term "Distribution" is an attribute of: ii) d) Syllogism b) Proposition c) conversion a)Term Which of the proposition is this "Some politicians are wise". iii) d) 0 c) I **b)** E a) A If "I" proposition is false then "E" Proposition will be true according to: iv) d) Contradiction c) Subalternation a) Contrarity b) Sub-contrarity "No P is S" is a converse of: v) d) Some S is not P a) All S is P b) No S is P c) Some S is P To draw a conclusion from more than one premise is called: vi) d) Mediate Inference b) Contradiction c) Proposition a) Immediate Inference The Subject of conclusion in a Syllogism is called: vii) d) Proposition a) Major Term b) Minor Term c) Middle Term Which figure of syllogism is this? viii) $P \supset M$ $S \supset M$ $:: S \supset P$ d) Fourth c) Third a) First b) Second The symbol '~' means: ix) d) Equivalence c) Implication A) Conjunction b) Negation Which of the compound proposition is this? "p v q" x) d) Implicative c) Negative a) Conjunctive b) Disjunctive

U.		OF THE I emester 201 B.S. 4 Years Pro	8	Roll No.	
PAPER: Logic and Critical Thinking Course Code: SOC-102			TIME ALLOWED: 30 mins. MAX. MARKS: 10		
Ai Q. # 1: Encircle the co		ective Type)		ed: (10)	
1) Validity is a chara	cteristic of:				
	*	ductive Argument	d) Deductive	e Argument	
2) Which of the prop	5. S	ie animals are inte	lligent":		
a) A	b) E	c) I	d) O		
3) Inductive Argume	nt is always:				
a) More or less p	probable b) Ir	walid c) (Consistent	d) True	
• 4) When an inferenc	e is based upon one	e premise only, it i	s called:		
a) Mediate Infer	ence b) Middle	Term c) Ind	uction d) im	mediate Inference	
5) If "A" proposition	ı is true then "E" P	Proposition will be	false according	to:	
a) Contrary	b) Sub-contrary	c) Sub-alterna	tion d) Cor	ntradiction	
6) To draw a conclus	sion from more tha	n 2 premises is ca	lled:		
a) Immediate Inferen	nce b) Media	te Inference	c) Induction	d) Syllogism	
7) The place of Mine	or Term in a Syllog	gism is:			
a) Major Premise	b) Minor Prer	nise c) Cono	lusion	d) Both Premise	
8) Which figure of s	yllogism is this?				
РМ					
<u>S M</u>					
∴s p	a) First	b) Second	c) Third	d) Fourth	
9) How many valid a) 15 10) Which of the com	b) 19	c) 26	d) 32		
a) Conjunctive	b) Disjunctive	c) Negative	d)	Implicative	