





HILOSOPHY OF

















UNIVERSITY OF IBADAN DIRECTORATE OF AFFILIATED INSTITUTIONS BIGARD MEMORIAL SEMINARY, ENUGU

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20	21-PHI - 003 Candidate's Number (write very clearly) 300 LEVEL Level of Study AR75 Faculty/College PHILDEOPHY Department/Course			
12	PHIL OF SCIENCE Title of Paper 274 FES 2024 Date	Examination (insert official title) of the Examination for which you have entered, as it appears at the head of the question paper		
DIRECTIONS TO CANDIDATES			For Examiner's Use Only	
1.	Write on both sides of the pages (except in Mathematics)	Question No.	Mark	
2.	Begin each answer on a fresh page	P	,0	
3.	Write the number of each question at the top of each page.	6	11	
4.	All rough work must be crossed through, and enclosed within this cover.		1	
5.	If supplementary books are used, they must be fastened a; together at the end of this book and inside the cover. Answers must not be written on the supplementary books unless all the leaves in this book have already been used.	2	15	
6.	In your own interest you should enter in the space provided below, the numbers of the questions which you have attempted (with sub-sections where necessary).	4	lk	
7.	In no circumstances must answer books used or unused, be removed from the Examination Room by a Candidate.			
3.	Candidates are warned that importance is attached by the examination to accuracy and cleamess of expression.			
3.	Please note that there is severe penalty for cheating at any examination.		1	
	NUMBERS OF THE ANSWERS in the order in which they have been written.		5	
ul s nde	tudents of the University of Ibadan are expected to show academic integrity at all times. retanding this, I solemnly declare that I shall not be involved in any malpractice including soliciting giving receiving or using unauthorised aid in this exemplation.	Xcc	12	

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Signature of student

Total...

+5177

Question (2) Write on both sides of the paper Question (2) Scientists eend to tackle problems through verifying or falsifying or lisproving theone and working I on a gelo work in or let to find solutions to problems Honce this nethod can be used in tackling the issue of problem of demarcation. Problem of Genarcation entails the acteriations bamong pholosophers and swentists on what seloued be considered as a Science and what should not be Considered as a science. This entails what makes Sciences what it is and what makes non swence not to be swence. Different strentist and philosophers have argued and propounded theories about elles issue of problem of Lemascation in philosophy of swence In responde to this problem, two schools of thought emerged which are the Leoificationists and the falsificationist They used the thories of benficationism and falfificationism to lounter the problem. Ventication theory verification theory emerged in response to the problem of Lemarcation in Science. This theory was fromed by the logical positive of Austoia which includes Rusolf Carnap

Otto Neurath, Moritz, Hans Reichenbach Schlick and A. J. Ayer This theory entails thate philosophers are also called the great ardle of vienha This theory entails that a scatement must in principle be empirically verifiable in order to the meaningful and Scientific, that the its por a statithent to be empirically verifiable, it must contain these characterists Oct must be meaningful Out must be Scientific Det must be touth. In a broader Sense, venficationism refutes metaphysics, ethics, psychology etc. In the of a statement, you go in Search of the bouth Example, all odvens are black. This a meaningful Statement and therefore should be true because it can be verified by observable and scientific processes. Therefore going in search of the touth is a one of the main characteristics of venticationism Thus, the verification theory is in an agreement of Anstotle's idea of what only what is seen can be tested falsification Theory Falsification theory emerged also as a response to the problem of Lemarcation in Schence but with the view of countering the



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... Candidate's Number (write very clearly)

200

ARTS PHILOSOPHY Faculty/College

PHILDSOPHY OF SCIENCE.

..... Title of Paper

12-02-2024

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NUMBERS OF THE ANSWERS

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Question Mark No.

Models represent hasically two feindamental functions a selected part the Models can be a representation of an aspect of the world, depending on the nature of phenomenon.

R. Model Can be a representation of theories, that is it interprets the laws and operions of that theory.

Models as sepsesentation of Categories would be discussed ander two aspects

- d. Model as sepassentation of Thurses
- 2. Models as sepsesentation of object of reality.

MODELS AS REPRESENTATION OF THEORIES
Thurios are statements about aspects of the
natural world which has undirgone several experimentation and still holds to be true.

A Moder is become a moder of that theory is generally accepted and has proven indesputable such that it stands out as a standard for formulating and enacting others. Hence a theory must be a able to interpret other theories, bring out the consequences for it be a moder.

REALITY.

Model represent though in the physical world, that is reality. As a sepresentation of an object it captures the fundamental properties of the object while abstraction ing expend excellent things. This can be mathematical,

conceptual or physical representation.

MODELS AS REPRESENTATION OF MODEL

the emphasis here, however the issue is how models can represent non empirical phenomenon. This invariably toads us to the Schools of thought in models.

SCHOOLS OF THOUGHT

There are basically two echooks of thoughts in models which helps to decipher what moders represents They are

- 1. Emposicism
- a. Realist.

, EMPIRICISM.

Empiricism is a philosophical school of thought which argues that ourdots should represent only be desired from experience, that is through the senses. For them, models should represent only things that are observable to the senses. Hence whatever the senses cannot observe should not be represented. The empiricist are against non-empirical representation of things.

REAKIS T

The realist school of thought argues that non-emp inter realities should be represented by models. This is because, since models have been defined as capturing aspects of the nurverse, it should then be able to

The board I was a wall

represent all realities over if they are idealized or simply

M CLASSIFICATION OF MODELS. Models are Classofied Fascially into two groups.

- R. Non Linguistic Module. It is allowed and as an analy

UNAVISTIC MODELS

Linguistic Models is a classification of models, which deals with the use of language to separent or capture aspects of realities. It is a decriptive rise of language to capture seality. For instance; Mathematitis.

HON LINGWISTIC MODEL

Non Linguistic Models is a classification of models, which doals with thereso of tome objects to Eastern or represent reality it is also called to concrete or objective model. The aim of non linguistic model is to seduce the excessive isse of Language in models og . At Prettine sketchis

It is important to note that whether models are lingnetstic or non legentstic has been a debate in philosophy of school However, I would propose a non linguistic models because the human mond adapts and occognized images easter than words.

in court, since allebers may been defined

aga user the minimum to sharem their is only

CRISIS OF REPRESENTATIONAL STILLE OF MODELS The crises of seposesentational coyle of models, deals principally with whether models should be an exact sepsesentation of an object or not. That is whether an model should be an exact or not? What is the best way to modelize an object This cross is referred to the problem of exactitutate and Simplicitude.

EXACTITUDE.

The proponents of this group proses that a model should be an exact sepsesentation of the object to of scality This poses a problem, which or - 4 a model is an exact representation of a model, how do you differentiate it from the original object, How do you distinguish which is a model and which is the original object. Exactitude make a model to lose its nature as model.

SIMILITUDE .

The proponents of this group are of the opinions that a model should not be an exact sepsesentation of an object of sealtry. However, this seems to solve the problem of this cross but it still has it own proplems; that has to do with how similar should an a model be to the object which it is sepresentiting such that it does not become an exact representation of that object and still matitain its status as Models.

Importance of Models

The following are the importance of models:

1. It makes understanding easier and faster.

R. It helps to interpret and reduce the ruse of farguage

3. It enables communication and education

4. To can serve as the basis for hypothesis.

EVALUATION AND CONCLUSION

Models are very important on the development of Science However, I strongly believe that models show be able to represent non emporical things, this is because it would bring stality closes to man and enable for easy understand Secondby the use of Language in mod should not be totally semoved, this is because Language is stall important in enabling communication, however 1 would prefer non linguistic models.

A good grasp and understanding of how models functions would and enhance indistanding of reality

in the world,

of mounts six to more death on systems and my the to the transmission disease was not now printed ways entrated. However the sound to solve the professor of this op and the stell the sto was between the tot of and the supply the or and Island is the blooms realistics coming وردا ولا يه مدامه بوران الاستراد الاستراد المرد الدراد المرد الدروان and abstraction of their object and will make