2019/TDC/ODD/SEM/ PHPSEC-301T/159

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TDC (CBCS) Odd Semester Exam., 2019

PHILOSOPHY

3rd Semester

Course No. : PHPSEC-301T

Full Marks : 50 Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

Option—A for Honours Students and Option—B for Pass Students

OPTION—A

(For Honours Students)

Course No. : PHPSEC-301T

(LOGICAL REASONING)

UNIT-I

Answer any three of the following questions : 1×3=3

(a) Who said, an argument as "any group of propositions of which one is claimed to follow from the others, which are regarded as providing support for the truth of that one"?

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- MMM.SRCOLLEGE.AC.IN What is meant by analytical reasoning? (b)
 - An inductive argument is concerned with (c)both formal and material truth. Is it true?

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- What is deductive reasoning? (d)
- Answer any one of the following questions :
 - Analyse the structure of argument. (a)
 - *(b)* Define inductive reasoning.
- Test the validity or invalidity of 3. (a) the WWW.SRCOLLEGE.AC. following arguments by means of Venn diagram and name the figure and mood if any ; $2\frac{1}{2} \times 2 = 5$
 - Some neurotics are not parasites, but **(i)** all criminals are parasites; it follows that some neurotics are not criminals.
 - *(ii)* No criminals are pioneers, for all criminals are unsavory persons and no pioneers are unsavory persons.

Or

(b)

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Explain briefly the Venn diagram technique for testing syllogistic argument.

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4. Answer any three of the following questions : $1 \times 3 = 3$

(a) What is syllogism?

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- (b) How many terms are there in a syllogism?
- (c) Give an example of fallacy of four terms.
- (d) How many valid moods are there in syllogism according to modern logic?

5. Answer any one of the following questions :

- (a) Write the importance of middle term.
- (b) Name the valid moods of the second figure.

6. (a) Test the following syllogistic arguments :

 $2\frac{1}{2} \times 2 = 5$

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- (i) John can pass the examination, for, he is an intelligent boy and intelligent boys alone can pass the examination.
- (ii) He is not superstitious, since all ignorant men are superstitious and he is not ignorant.

(b) State the fallacies associated with the rules of syllogism.

Or

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UNIT H

- MMM.SRCOLLEGE, AC.Y Answer any three of the following questions : $1 \times 3_{=3}$ 7.
 - What is Anumāna? (a)
 - What is Paksatā? (b)
 - Name the steps of five membered syllogism (c)of Indian logic.
 - What is Pūrvavat Anumāna? (d)

Answer any one of the following questions :

- Distinguish between Svarthanumana and *(a)* Parārthānumāna.
- (b) Define Parāmarśa.
- What is Vyapti? State briefly the role of 9.<u>(a)</u> Vyāpti in Anumiti.

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Continued)

Or

What do you mean by Hetvābhāsa? Name *(b)* the different kinds of Hetvabhasa.

UNIT-IN

- Answer any three of the following questions : $1 \times 3 = 3$ 10.
 - (a) What are the basic truth-functional connectives or logical constants?

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- Can the tidle (~) be used to connect two NS(b) propositions?
 - What is a variable? (c)
 - What are the two senses of the word or' (\vee) (d)in English language?
- 11 Answer any one of the following questions :
 - What is truth-function? (a)
 - What is truth-table? (b)
- <u>(a)</u> 12. Explain in brief the basic truth-function.

Or

(b) Draw the truth table to determine the 21/2+21/2=51 EGE AC.IT validity or invalidity of the following :

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(i) $[(P \supset q) \cdot P] \supset q$ (ii) $[P \supset (q \lor \gamma)] \supset \neg q$

UNIT-V

Answer any three of the following questions : $1 \times 3 = 3$ 13.

- (a) What is a symbol?
- (b) State the rule of absorption.
- What is ideogram? (c)
- (d)State the rule of transposition,

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- 14. Symbolise the following (any one) :
 - (a) I shall not attend the meeting unless I am
 - (b) It is not true that the cow is not a quadruped manimal.
- 15. Construct formal proof of validity for the following arguments : $2\frac{1}{2}\times2=5$
 - (a) (i) 1. $(A \cup B) \supset C$
 - 2. $(C \cup B) \supset [A \supset (D \equiv E)]$
 - 3. $A \cdot D / \therefore D \equiv E$
 - (ii) 1. $(H \lor I) \supset [J \cdot (K \cdot L)]$ 2. $I/ : J \cdot K$

(b)

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(i) Use conditional proof to prove the validity:

 $1. A \supset (B \cdot C)$

 $2. (B \lor C) \supset I/ A \supset I$

(ii) Construct an indirect proof of the following:

- 1. $(A \lor B) \supset (C \cdot D)$
- 2. C⊃~D/∴~A

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For Pass Course Students)

OPTION-B

LEGE 7

Course No. PHPSEC-3017

(LOGICAL REASONING-I)

Unit—I

1. Answer any three of the following questions : $1 \times 3 = 3$

(a) Define argument.

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- (b) What are the different kinds of arguments?
- (c) State one difference between deductive and inductive inference.
- (d) If an A proposition is true, what will be truth value of corresponding O proposition?
- 2. Answer any one of the following questions :
 - (a) What is inductive inference? State its
 - (b) What are the constituent parts of an argument? Explain.
 - 3. Having the same subject and predicate terms explain the opposition amongst traditional four-fold proposition. Name the oppositions and represent them through diagram.

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4. (a)

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(b)

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What will be the truth value of (ii), (iii) and (iv) if (i) is stated to be false?

- (i) All successful executives are intelligent
- (ii) No successful executives are intelligent people.
- (iii) Some successful executives are intelligent people.
- (iv) Some successful executives are not intelligent people.
- What will be the truth value of (ii), (iii) and (iv) if (i) is stated to the true?
 - (i) No animals with horns are carnivores.
- (ii) Some animals with horns are carnivores.
- (iii) Some animals with horns are not carnivores.
 - (iv) All animals with horns are carnivores.

Unit—II

- 5. Answer any three of the following questions : $1 \times 3 = 3$
 - (a) Define fallacy.
 - (b) What is a fallacy of relevance?

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MMM.SRCOLLEGE.AC.IN What is the fallacy of equivocation?

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Can accent in some words to lead to fallacy? (d)MMASRCOLLEGE, AC.IN

Answer any one of the following questions : 6.

What is Apphiboly? Ya)

What is the fallacy of division? (b)

Identify the fallacies of ambiguity in the following 7. passages : 21⁄2×2≈5

(4) parts of the universe If the are not accidental, how can the whole universe be the result of chance? considered as Therefore, the existence of the universe is not due to chance

American Indians are disappearing. That man is an American India, Therefore, that man is disappearing.

OR

Mention and explain briefly the different kinds of 8. WWW.SRCOLS fallacies of ambiguity.

UNIT-III

Answer any three of the following questions : $1 \times 3 = 3$ 9. ,collEGE.AC

(a) > Define syllogism.

What is the figure of syllogism? **(**b)

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(c) How many terms are there in a syllogism?

In a syllogism, is the middle term required to (d)be distributed in both the premises?

Answer any one of the following questions :

- What is the fallacy of illicit major? (a)
- (b) Define existential fallacy.
- 11. Test the validity of the following argument forms by applying I. M. Copi's rules of syllogism : MMM.SRCOLLEGE
 - AAA~3 (a)

MMM.SRCOLLEGE.AC.IV

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IEO-1 *(b)*

OR

12. Mention I. M. Copi's rules for standard form respective categorical syllogism. State the fallacies committed when these are violated.

UNIT---IV

- Answer any three of the following questions : $1 \times 3 = 3$ 13.
 - What is a Venn diagram? (a)
 - Draw a Venn diagram for the proposition : *(b)* All men are rationel.
 - Draw a Venn diagram for the proposition : (c)Some books are useful.
 - What does a cross mark (x) indicate in a (d) Venn diagram?

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Answer any one of the following questions :

- How many intersecting circles are required (a)in a Venn diagram of syllogism? What are the methods to indicate a class is empty?
 - What is the validity characteristic of an argument if the diagram of the conclusion does not come up after drawing the premises?
- 15. Put any of the following syllogisms into standard form, name its mood and figure and test its validity by Venn diagram :
 - Some philosophers are mathematicians; (a) hence some scientists are philosophers, since all scientists are mathematicians.
 - underwater craft are submarines; All *(b)* submarines are pleasure therefore no vessels, since no pleasure vessels are underwater craft.

OR

Draw Venn diagram for the following forms of 16. syllogism to test their validity : $2\frac{1}{2} \times 2 = 5$ COLLEGE, AC.IN

(a) OAO-3

|A| - 1(b)

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(b)

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UNIT-V

Answer any three of the following questions : $1 \times 3 = 3$ 17.

- What is a disjunctive syllogism? (a)
- What type of propositions constitute (b) hypothetical syllogism?
- (c) What is dilemma?

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- Is dilemma a mixed syllogism? (d)
- Answer any one of the following questions : 18.
 - What is a constructive dilemma? (a)
 - What is a destructive dilemma? *(b)*
- 19. Identify the form and discuss the validity or invalidity of any of the following arguments :
 - If each man had a definite set of rules of (a) conduct by which he regulated his life he would be no better than a machine. But there are no such rules, so man cannot be machines.

Or

(b)

Smith is the fireman Smith is the OL engineer. Smith is not the fireman. Therefore Smith is the engineer.

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