

Entrance Examinations 2018

Q-19

M.A. Philosophy

Hall Ticket No. _____

Time: 2 Hours

Max. Marks: 100

Instructions:

The question paper consists of 100 **objective** (multiple-choice) questions of **one mark** each. There will be a **negative marking** of $\frac{1}{3}$ for every wrong answer. Use **OMR** sheet for answering the questions.

1. Ethics is
 - A) A normative study
 - B) A factual study
 - C) A logical study
 - D) A metaphysical study
2. Science stands for ...
 - A) Experimental study of nature
 - B) Speculative study of nature
 - C) Religious study of nature
 - D) Philosophical study of nature
3. Solipsism means ..
 - A) I alone exist
 - B) The world does not exist
 - C) I and God exist
 - D) Nothing exists
4. Skepticism stands for
 - A) Denial of the existence of the world
 - B) Denial of the knowledge of the existence of the world
 - C) Denial of the existence of God
 - D) Denial of rebirth
5. Secularism in Indian context means ...
 - A) separation of religion from politics
 - B) respect for all religions

- C) Denial of religion
D) Promoting a particular religion
6. Vedanta stands for which of the following?
A) The Brahmanas
B) The Samhitas
C) The Upanisads
D) The Yogasutras
7. Who among the following is a rationalist philosopher?
A) Descartes
B) Berkeley
C) Hume
D) Bertrand Russell
8. Which one among the following is not among the *mahavakyas*?
A) *Tatvamasi*
B) *Ahambrahmasmi*
C) *Prajnanam Brahman*
D) *Jaganmitya*
9. Buddhism believes in which of the following?
A) God
B) Soul
C) Rebirth
D) Vedas
10. Which of the following is a philosophical statement?
A) A triangle has three sides
B) The sun rises in the east
C) The world is imperfect
D) Plato is a Philosopher
11. Who among the following is the founder of Jainism?
A) Mahavira
B) Parsvanatha
C) Rsabhadeva

- D) None of the above
12. In which of the following sentences the word **good** occurs in the ethical sense?
- A) The knife is good
 B) The weather is good
 C) Charity is good
 D) The food is good
13. Which of the following is a logically true statement?
- A) Snow is white
 B) The earth is a planet
 C) All material bodies gravitate
 D) All bachelors are unmarried males
14. Which of the following is **not** a noble truth advocated by Buddha?
- A) There is suffering
 B) There is cause of suffering
 C) There is a need to inquire into the suffering
 D) There is a method to remove suffering
15. Which one of the following is **not** a *purusartha*?
- A) Dharma
 B) Artha
 C) Karma
 D) Mokṣa
16. Which one among the following is does **not** belong to *prasthāna traya*?
- A) Brahmasūtras
 B) Bhagavt-gīta
 C) Upaniṣads
 D) Rg.veda
17. Jainism is a *nāstika darśana* because ...
- A) Does not believe in the existence of God
 B) Accepts Mahavira as God

- C) Denies the authority of Veda
D) It does not believe in the soul
18. One tap fills a water tank in 6 minutes while another tap fills it in 10 minutes. If both the taps are opened at the same time, what is the time taken to fill the tank completely with water?
- A) 8 minutes
B) Less than 4 minutes
C) less than 2 minutes
D) more than 5 minutes
19. Gautam is standing between Veena and Teena. Prakash is standing on Teena's right. Where is Teena standing?
- A) Between Prakash and Gautam
B) Between Gautam and Veena
C) Between Prakash and Veena
D) On the right of Prakash
20. Consider the line segment below:
- $A \text{-----} | \text{-----} | \text{-----} D$
 $\qquad\qquad\qquad B \qquad\qquad\qquad C$
- $AC = 21$; $BD = 26$; CD is twice AB
- The length of ABC is:
- A) 5
B) 10
C) 15
D) None of the above
21. If an argument is valid,
- A) If an argument is valid,
B) the conclusion implies the premises
C) the conclusion and the premises imply each other
D) none of the above
22. Mathematics is ...
- A) an empirical enquiry
B) a formal enquiry
C) a historical enquiry
D) none of the above
23. Ethics deals with the questions regarding
- A) what we normally do
B) what we need to do
C) what we ought to do
D) what we like to do

24. A number that reads the same when read forward or backward is called a palendromic number. Examples are: 1, 11,121 etc. How many palendromic numbers are there between 0 and 100?
- A) 09
B) 11
C) 19
D) none of the above
25. A boy goes to a room to fetch a pair of shoes. There is a sudden power failure and the room is pitch dark. There is a pile of six shoes of three different brands of shoes on the floor. What is the minimum number of pair(s) of shoes does the boy need to take out so that he has at least one pair of the same brand?
- A) one
B) two
C) three
D) none of the above
26. The Greek alphabets α , β , δ , γ equal numbers 1, 2, 4, and 6, not necessarily in the same order. The two problems given below are correct. 0 refers to the number zero.

Addition	Subtraction
$\beta \delta \delta$	$\alpha \delta \gamma$
+	-
$\alpha \delta 0$	$\delta \delta \alpha$
-----	-----
$\gamma \alpha \delta$	$\delta 0 \beta$

α , β , δ , and γ equal the numbers in the following way:

- A) 2, 4, 1, 6
B) 2, 1, 4, 6
C) 4, 1, 2, 6
D) 4, 1, 6, 2
27. Tachophobia is a fear of
- A) speed
B) touchy objects
C) time
D) technology
28. What substance is processed in a ginnery?
- A) cotton
B) Alcoholic beverage gin

- C) Jean cloths
- D) none of the above

29. Which planet is called the horned planet?

- A) Venus
- B) Mercury
- C) Mars
- D) Jupiter

30. Choose the correct statement from below

- A) *Bhagavad Gita* is a part of the *Ramayana*
- B) There are eighteen *Puranas*
- C) There is one *Veda*
- D) *Mahabharata* has seven chapters.

31. Objects like pens and sheets of paper are of

- A) no value
- B) instrumental value
- C) intrinsic value
- D) emotional value

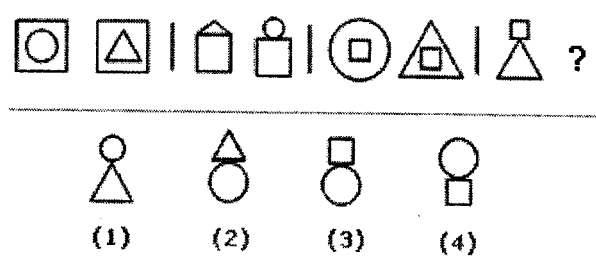
32. Who is a philosopher, in strict sense of the term?

- A) Someone who is interested in religious matters
- B) A person primarily interested in truth about moral matters
- C) A lover and pursuer of wisdom, regardless of the subject matter
- D) A clever and tricky arguer

33. Issues relating to HOW we know and WHAT we know is the domain of ...

- A) metaphysics
- B) epistemology
- C) axiology
- D) aesthetics

34. Look carefully at the sequence of symbols to find the pattern. Select correct pattern.



- A. 1
- B. 2
- C. 3
- D. 4

35. Ananya and Krishna can speak and follow English. Babul can write and speak Hindi as Archana does. Archana talks with Ananya also in Bengali. Krishna cannot follow Bengali. Babul talks with Ananya in Hindi. Who can speak and follow English, Hindi and Bengali?
- Archana
 - Babul
 - Ananya
 - Krishna
36. Ontology deals with:
- Thesis, Antithesis, Synthesis
 - The life cycle of a single organism
 - Attempts to coordinate the real in the light of the ideal
 - The study of being
37. Whereas the social sciences ask questions about how people think and act, philosophy is the study of:
- How people with different beliefs or backgrounds disagree with one another
 - What beliefs mean and whether people with different beliefs are justified in having them
 - The reasons why philosophic questions never have better or worse answers
 - Questions that can be answered better by appealing to scientific experiments
38. Find out which will replace the question Mark.
- BEGK : ADFJ PSVY : ?
- ROUX
 - ORUX
 - LQUT
 - LOQT
39. Find out which will replace the question Mark.
- AZBY : CXDW EVFU : ?
- GTHS
 - GHTS
 - GSTH
 - TGSH
40. The argument "All men are mortal. Therefore no man is honest" is invalid because ...
- The premise is false
 - The conclusion is false
 - The conclusion does not follow from the premise
 - Both premises and the conclusion are false

41. Match List I with List II and select the correct answer from the code given below:

- List I**
- a. Salman Rushdie
 - b. R.K.Narayan
 - c. Arundhati Roy
 - d. Chetan Bhagat

- List II**
- i. Malgudi Days
 - ii. The 3 mistakes of my life
 - iii. Midnight's Children
 - iv. God of small things

Code:

	(a)	(b)	(c)	(d)
A)	iii	i	iv	ii
B)	iii	iv	ii	i
C)	ii	i	iv	iii
D)	iv	iii	ii	i

42. Choose one word which cannot be formed from the letters of the word CONSULTATION

- A) CONSTANT
- B) NATION
- C) SALUTE
- D) STATION

43. Socrates said that the unexamined life is:

- A) Normal
- B) A mystery
- C) Not worth living
- D) Full of sound and fury

44. Which of the given passages can be taken as an example of a logical argument?

- A) Whenever children are exposed to sunlight, they get sunburn, Therefore exposure to sunlight is the cause of sunburn in the case of children
- B) If there is thunder, then there is lightning as well. There is thunder. Therefore there is lightning.
- C) Govind insisted that logic as a discipline is a gift from the Greek to the world. Ramu however objected saying that everyone is born with logical intuition. Therefore logic is not a gift from Greek.
- D) If you take advantage on me, then I will tell everyone that you are a liar

45. In a parliamentary form of government real powers of state are vested in ...

- A) Council of ministers
- B) President
- C) People of the state
- D) All of the above

- 46. India's tallest monolithic stone statue of the Jain sage Gommateswara is at ...
 - A) Mysore
 - B) Sravanabelagola
 - C) Mandya
 - D) Hampi

- 47. If you want to be happy, practice honesty. This is a (n)...
 - A) Absolute principle
 - B) Necessary truth
 - C) Conditional principle
 - D) Unconditional truth

- 48. Optimist is to cheerful as pessimist is to ...
 - A) Gloomy
 - B) Mean
 - C) Petty
 - D) Helpful

- 49. Embarrassed is to humiliated as frightened is to ...
 - A) Terrified
 - B) Agitated
 - C) Courageous
 - D) Reckless

- 50. The role of philosophy in relation to religion is to ...
 - A) Justify religion
 - B) Criticize religion
 - C) Rationally understand religion
 - D) Confirm religion

- 51. One similarity between the Five Pillars of Islam and the Ten Commandments in Christianity is that both
 - A) support a belief in reincarnation
 - B) promote learning as a means to salvation
 - C) encourage the use of statues to symbolize God
 - D) provide a guide to proper ethical and moral behavior

- 52. The general process through which societies transform economically, socially and culturally to keep pace with an increasingly competitive global market place is ...
 - A) Globalization
 - B) Modernization
 - C) Colonialism
 - D) Liberalism

53. Which of the following is also called the "house of elders" ?

- A) Rajyasabha
- B) Loksabha
- C) Gramasabha
- D) Vidhansabha

54. Who is the highest Law Officer of a state?

- A) Attorney General
- B) Advocate General
- C) Solicitor General
- D) Secretary General

55. According to Mohandas Karmchand Gandhi:

1. Means are essentially of instrumental value
2. Means are no less important than ends.

Which of the above statements is/are correct?

- A) 1 only
- B) 2 only
- C) both 1 and 2
- D) neither 1 nor 2

56. Critical reading is a demanding process. To read critically, you must slow down your reading and, with pencil in hand, perform specific operations on the text. Mark up the text with your reactions, conclusions, and questions. When you read, become an active participant. This paragraph best supports the statement that

- A) critical reading is a slow, dull, but essential process.
- B) the best critical reading happens at critical times in a person's life.
- C) readers should get in the habit of questioning the truth of what they read.
- D) critical reading requires thoughtful and careful attention.

57. Forest fires feed on decades-long accumulations of debris and leap from the tops of young trees into the branches of mature trees. Fires that jump from treetop to treetop can be devastating. In old-growth forests, however, the shade of mature trees keeps thickets of small trees from sprouting, and the lower branches of mature trees are too high to catch the flames.

This paragraph best supports the statement that ...

- A) forest fire damage is reduced in old-growth forests.
- B) small trees should be cut down to prevent forest fires.
- C) mature trees should be thinned out to prevent forest fires.
- D) forest fires do the most damage in old growth forests.

58. Close-up images of Mars by the Mariner 9 probe indicated networks of valleys that looked like the stream beds on Earth. These images also implied that Mars once had an atmosphere that was thick enough to trap the sun's heat. If this were true, something happened to Mars billions of years ago that stripped away the planet's atmosphere.

This paragraph best supports the statement that ...

- A) Mars now has little or no atmosphere.
- B) Mars once had a thicker atmosphere than Earth does.
- C) the Mariner 9 probe took the first pictures of Mars.
- D) Mars is closer to the sun than Earth is.

59. For too long, school cafeterias, in an effort to provide food they thought would be appetizing to young people, mimicked fast-food restaurants, serving items such as burgers and fries, pizza, hot dogs, and fried chicken. School districts nationwide are now addressing this trend by incorporating some simple and inexpensive options that will make cafeteria lunches healthier while still appealing to students.

This paragraph best supports the statement that ...

- A) school cafeterias have always emphasized nutritional guidelines over any other considerations.
- B) young people would rather eat in a school cafeteria than a local fast-food restaurant.
- C) school lunch menus are becoming healthier due to major new initiatives on the part of school districts.
- D) it is possible to make school lunches both healthier and appealing without spending a great deal of money and undertaking a radical transformation.

60. During the last six years, the number of practicing physicians has increased by about 20%. During the same time period, the number of healthcare managers has increased by more than 600%. These percentages mean that many doctors have lost the authority to make their own schedules, determine the fees that they charge, and decide on prescribed treatments.

This paragraph best supports the statement that doctors ...

- A) resent the interference of healthcare managers.
- B) no longer have adequate training.
- C) are less independent than they used to be.
- D) care a great deal about their patients.

61. Yoga has become a very popular type of exercise, but it may not be for everyone. Before you sign yourself up for a yoga class, you need to examine what it is you want from your fitness routine. If you're looking for a high-energy, fast-paced aerobic workout, a yoga class might not be your best choice.

This paragraph best supports the statement that ...

- A) yoga is more popular than high-impact aerobics.
- B) before embarking on a new exercise regimen, you should think about your needs and desires.
- C) yoga is changing the world of fitness in major ways.
- D) yoga benefits your body and mind.

62. Obesity is a serious problem in this country. Research suggests that obesity can lead to a number of health problems including diabetes, asthma, and heart disease. Recent research has even indicated that there may be a relationship between obesity and some types of cancer. Major public health campaigns that increase awareness and propose simple lifestyle changes that will, with diligence and desire, eliminate or least mitigate the incidence of obesity are a crucial first step in battling this critical problem.

This paragraph best supports the statement that ...

- A) public health campaigns that raise consciousness and propose lifestyle changes are a productive way to fight obesity.
- B) obesity is the leading cause of diabetes in our country.
- C) people in our country watch too much television and do not exercise enough.
- D) decline in obesity would radically decrease the incidence of asthma.

63. Mathematics allows us to expand our consciousness. Mathematics tells us about economic trends, patterns of disease, and the growth of populations. Math is good at exposing the truth, but it can also perpetuate misunderstandings and untruths. Figures have the power to mislead people.

This paragraph best supports the statement that ...

- A) the study of mathematics is dangerous.
- B) words are more truthful than figures.
- C) the power of numbers is that they cannot lie.
- D) figures are sometimes used to deceive people.

64. Human technology developed from the first stone tools about two and a half million years ago. At the beginning, the rate of development was slow. Hundreds of thousands of years passed without much change. Today, new technologies are reported daily on television and in newspapers.

This paragraph best supports the statement that ...

- A) stone tools were not really technology.
- B) stone tools were in use for two and a half million years.
- C) there is no way to know when stone tools first came into use.
- D) In today's world, new technologies are constantly being developed.

65. Zinnia has a small container garden on her balcony. Each spring, she only has room to plant three vegetables. Because five vegetables are her favorites, she has worked out a schedule to plant each at least once every two years. The vegetables are: beans, cabbage, carrots, peppers, and tomatoes.

- Tomatoes are her favorites and she plants them every year.
- Each year, she plants only one vegetable that begins with the letter "C."
- She never plants carrots and peppers in the same year.
- She will plant cabbage in the second year.

In what order does she plant the vegetables in the next two years?

- A) first year: tomatoes, carrots, cabbage - second year: tomatoes, peppers, beans
- B) first year: tomatoes, peppers, beans - second year: cabbage, carrots, tomatoes
- C) first year: tomatoes, carrots, peppers - second year: tomatoes, cabbage, beans
- D) first year: tomatoes, carrots, beans - second year: tomatoes, cabbage, peppers

66. A Tiebreaker is an additional contest or period of play designed to establish a winner among tied contestants. Which situation below is the best example of a Tiebreaker?

- A) At halftime, the score is tied at 28.
- B) The referee tosses a coin to decide which team will have possession of the ball first.
- C) The Sharks and the Bears each finished with 14 points, and they are now battling it out in a five-minute overtime.
- D) East and West have each scored three goals in the game.

67. In the Cherec School, a Five-Day Suspension occurs when a student is not permitted to attend school for five days for (1) physically assaulting another student, a teacher, or a school employee or (2) willfully destroying or defacing school property.

Which situation below is the best example of a Five-Day suspension?

- A) Leela gets caught cheating on a math test for the second time and is suspended from school.
- B) Geeta is asked to leave the classroom due to her constant disruptions.
- C) Swathi uses spray paint to write derogatory comments on the locker room wall and she is given a suspension.
- D) Ms. Kavita tells her class that students who fail the midterm exam will be expected to stay after school for tutoring help.

68. Here are some words translated from an artificial language.

malgauper means peach cobbler

malgaport means peach juice

moggagrop means apple jelly

Which word could mean "apple juice"?

- A) moggaport
- B) malgaauper
- C) gropport
- D) moggagrop

69. Here are some words translated from an artificial language.

plekapaki means fruitcake

pakishillen means cakewalk

treftalan means buttercup

Which word could mean "cupcake"?

- A) shillenanlan
- B) treftpleka
- C) pakitreft
- D) alanpaki

70. Careful is to cautious as boastful is to ...

- A) arrogant.
- B) humble.
- C) joyful.
- D) Suspicious.

71. Elated is to despondent as enlightened is to ...

- A) aware.
- B) ignorant.
- C) miserable.
- D) Tolerant

72. Which word does NOT belong with the others?

- A) area
- B) variable
- C) circumference
- D) quadrilateral

73. Look at this series: F2, __, D8, C16, B32, What number should fill the blank?

- A) A16
- B) G4
- C) E4
- D) E3

74. Look at this series: 664, 332, 340, 170, __, 89. What number should fill the blank?
- A) 85
 - B) 97
 - C) 109
 - D) 178
75. There are twenty four students in a class. For every nine girls there are three boys. How many girls and boys are there in the class?
- A) 19 girls and 5 boys
 - B) 18 girls and 6 boys
 - C) 15 girls and 9 boys
 - D) 14 girls and 10 boys
76. The average age of a father and his only son is 25% more than the average age of that boy and his mother. When that boy was born, his mother was 30 years old and his father was 40 years old. Find the present age of father.
- A) 55
 - B) 48
 - C) 65
 - D) 45
77. One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?
- A) East
 - B) West
 - C) South
 - D) data is inadequate to say
78. Statements: All men are vertebrates. Some mammals are vertebrates.
Conclusions:
- i. All men are mammals
 - ii. All mammals are men
 - iii. Some vertebrates are mammals
 - iv. All vertebrates are men
- A) only iv follows the right conclusion
 - B) only ii follows the right conclusion
 - C) only iii follows the right conclusion
 - D) only i follows the right conclusion

79. The largest number which divides 30, 78 and 102 to leave the same remainder in each case is ...

- A) 24
- B) 20
- C) 8
- D) 16

80. Two people were going from town A to Town B. After sometime, one asked the other, "How much have we travelled?" and the other answered, "Half the distance yet to go." After another 2 Kms, the first asked the second traveler, "How much further do we have to go?" and the second answered, "Half the distance we already travelled." What is the distance between A and B?

- A) 6 Kms
- B) 8 Kms
- C) 12 Kms
- D) 10 Kms

The following passage refers to questions 81 through 90.

The pioneers of the teaching of science imagined that its introduction into education would remove the conventionality, artificiality, and backward-looking which were characteristic of classical studies, but they were gravely disappointed. So, too, in their time had the humanists thought that the study of the classical authors in the original would banish at once the dull pedantry and superstition of mediaeval scholasticism. The professional schoolmaster was a match for both of them, and has almost managed to make the understanding of chemical reactions as dull and dogmatic.

The chief claim for the use of science in education is that it teaches a child something about the actual universe in which he is living, in making him acquainted with the results of scientific discovery, and at the same time teaches him how to think logically and inductively by studying scientific method. A certain limited success has been reached in the first of these aims, but practically none at all in the second. Those privileged members of the community who have been through a secondary or public school education may be expected to know something about the elementary physics and chemistry of a hundred years ago, but they probably know hardly more than any bright boy can pick up from an interest in wireless or scientific hobbies out of school hours.

As to the learning of scientific method, the whole thing is palpably a farce. Actually, for the convenience of teachers and the requirements of the examination system, it is necessary that the pupils not only do not learn scientific method but learn precisely the reverse, that is, to believe exactly what they are told and to reproduce it when asked, whether it seems nonsense to them or not. The way in which educated people respond to such quackeries as astrology, not to say more dangerous ones such as racial theories, shows that fifty years of education in the method of

science in Britain or Germany has produced no visible effect whatever. The only way of learning the method of science is the long and bitter way of personal experience, and, until the educational or social systems are altered to make this possible, the best we can expect is the production of a minority of people who are able to acquire some of the techniques of science and a still smaller minority who are able to use and develop them.

81. The author implies that the 'professional schoolmaster' has

- A) no interest in teaching science
- B) thwarted attempts to enliven education
- C) aided true learning
- D) been a pioneer in both science and humanities.

82. The author's attitude to secondary and public school education in the sciences is

- A) neutral
- B) supportive
- C) satirical
- D) contemptuous

83. The word 'palpably' most nearly means

- A) empirically
- B) obviously
- C) tentatively
- D) markedly

84. The author blames all of the following for the failure to impart scientific method through the education system except

- A) poor teaching
- B) examination methods
- C) lack of interest on the part of students
- D) the social and education systems

85. If the author were to study current education in science to see how things have changed since he wrote the piece, he would probably be most interested in the answer to which of the following questions?

- A) Do students know more about the world about them?
- B) Do students spend more time in laboratories?
- C) Can students apply their knowledge logically?
- D) Have textbooks improved?

86. Astrology is mentioned as an example of
- A) a science that needs to be better understood
 - B) a belief which no educated people hold
 - C) something unsupportable to those who have absorbed the methods of science
 - D) an acknowledged failure of science
87. All of the following can be inferred from the text except
- A) At the time of writing, not all children received a secondary school education
 - B) science teaching has imparted some knowledge of facts to some children
 - C) the author believes that many teachers are authoritarian
 - D) it is relatively easy to learn scientific method
88. Pupils are forced to comply with rote learning since
- A) the examination system requires that they learn about scientific method
 - B) the examination system requires that they reproduce what the teachers have said in class.
 - C) learning scientific facts exhausts learning about scientific method.
 - D) logical aspects of scientific method are almost impossible to learn at that tender age.
89. According to the author, most of the students having had the present science education in school are
- A) very competent to acquire techniques of science
 - B) very able to use techniques of science
 - C) very able to develop new techniques in science
 - D) more likely to accept the casteist theory or the racial theory of inferiority
90. The humanistic teaching seems to hold that reading classical texts
- A) allows students to rise above the present shallow thinking
 - B) makes students to go beyond excessive concerns about minor details and rules
 - C) helps students to engage with larger and deeper questions that confront humanity
 - D) is a waste of time at the present age.

The following passage refers to questions 91 through 100.

A Challenge to Protocol

Members of a government ethics panel in the U.S have renewed their criticisms of a controversial study in which volunteers are to be deliberately infected with the Zika virus. In an article published in April, 2018, in the journal *Science*, panel members have called for the establishment of the ethics committees to review the design of such human challenge studies which are sometimes used to test vaccines.

“There is no way to turn back the times”, says Seema Shah, a bioethicist at the University of Washington, who chaired the panel and is a co-author of the new paper. “When you are asking someone to take a risk that won’t benefit them but may benefit others in the future, you need to know two things – that proper protections are in place, and that it is really going to move the needle.” With funding from National Institute of Health (NIH), the investigators plan to inoculate participants with potential vaccines and then inject them with small doses of Zika virus to test the vaccine’s effectiveness. The NIH has not yet decided whether the research will proceed.

The scientists leading the trial say it is necessary to prevent the future epidemic. But Ms. Shah and other bioethicists convened by the NIH concluded in 2017 that the research had ‘insufficient value to justify the risks. People outside the study, such as sexual partners, might also be infected the panel says. And Zika virus might have unspecified consequences for participants in the long term.

But scientists in charge of the study say the panel’s concerns are hypothetical and do not take into account the proposed protocol. They plan to use minimum doses of Zika virus and to quarantine patients in a hospital inpatient unit. The study also will start by enrolling only women – who are less likely to transmit Zika sexually – and will require them to use long term birth control.

“It’s really insulting”, says Dr. Stephen Whitehead, a senior researcher at the NIH, of the panel’s decision. We have been painted as mad scientists who do horrible studies on human beings. But we are on top of all these risks.” Human – challenge studies are only conducted at a small number of institutions in the U.S. The trials have been used to test vaccines or treatments for dengue, malaria, influenza, and norovirus among other diseases.

Natural Zika outbreaks are becoming too **sporadic** to test vaccines, so until the next large outbreak, a human – challenge study may be the only way for vaccine developers to proceed. “This ethics consultation was debilitating for the whole community” says Dr. Anna Durbin, a research clinician at Johns Hopkins University who collaborated on the study’s design. “It really slammed the door on progress.” (E. Baumgaertner, N. Y. Times, reprinted in the Hindu)
Answer the following questions:

91. If Zika outbreaks are too sporadic, then the intent of the author is to suggest that

- A) these outbreaks happen only once in a while but anywhere in the world
- B) these outbreaks can happen only in some specific places but anytime.
- C) these outbreaks can happen only in some specific places and that too once in a while.
- D) these outbreaks can happen at any time and in any place.

92. The testing of vaccines in general are ...

- A) always done by human – challenge studies
- B) sometimes done by human – challenge studies.
- C) never done by human – challenge studies.
- D) always done by ring cluster studies.

93. The publication in *Science* suggests that for testing the efficacy of Zika virus vaccine

- A) the human – challenge studies be scrapped.
- B) the human – challenge studies be redesigned.
- C) the human – challenge studies be repeated since the data is not sufficient.
- D) the human – challenge studies be supplemented by a different protocol.

94. The paper highlights the risk / benefit that accompany the testing by pointing out that

- A) people who are exposed to the risk are not the same people who may benefit from the test.
- B) people who are exposed to the risk are the same people who will also directly benefit from the test.
- C) people who are inoculated with the vaccine under test and subsequently injected with a small dose of Zika virus are not open to any risk.
- D) people should not volunteer for such risky testing procedure.

95. Two kinds of risk that the bioethicists highlight with the scientists' design of the trial are:

- A) people under clinical trial may face long term adverse consequences and people who are vaccinated, assuming the trial succeeds, may also face long term consequences.
- B) people under clinical trial may face long term adverse consequences and the vaccine is shown to be unsuccessful by the clinical trial.
- C) people under clinical trial may face long term adverse consequences and their partners may also be open to adverse consequences.
- D) people under clinical trial will surely face long term adverse consequences as they will be inoculated with several potential vaccines and none of the vaccines is found to be successful.

96. Scientists interested in conducting the clinical trial suggest that the risk is rather minimal since...

- A) the Zika virus dose administered to the people undergoing trial is the minimum dose.
- B) the inoculation by vaccine will minimize if not completely offset the virulence of the Zika virus at the minimum dose.
- C) the people undergoing clinical trial will be segregated and kept in the hospital.
- D) Both (A) and (C) hold.

97. Scientists also think that their trial design incorporates an important variable which addresses the issue of the partners of the people under clinical trial being exposed to the risk of adverse consequences by way of restricting

- A) the people under trial to a quarantine.
- B) the people under trial being women.
- C) the people under trial restricted to only one kind of potential vaccine.
- D) Both (A) and (B)

98. The differences among the bioethicists and the researchers seem to be based on the differences in their perspectives about

- A) risk and development of vaccine.
- B) whether the trial protocols address the risks.
- C) risks being more hypothetical and getting hold of a vaccine being an urgent necessity.
- D) all of the above

99. Both the bioethicists and the researchers agree that

- A) the risk to the people under trial must be minimal and a vaccine may be a reasonable way to stop future epidemic of Zika virus.
- B) the possibility of risk of adverse consequences in the future to the people under trial and to their partners must be minimal.
- C) Both (A) and (B)
- D) None of the above

100. The paper published in Science has

- A) at least one author
- B) at least two authors
- C) Neither (A) nor (B)
- D) Insufficient information about the number of authors