## BA SOCIOLOGY III SEMESTER CORE PAPER

## SOCIAL RESEARCH METHODS

## **QUESTION BANK**

1. The very word statistics refers to
a) State craft b) Science of State
c) Political state d) Political craft
2. 'Arthashastra' provides statistical facts about in the country.
a) State Administration b) Population statistics
c) fact of day-to-day life d) All of the above
3. The prominent meaning of 'statistics'
a) Data, its analysis and interpretation b) observation of samples
c) Method for analysing numers d) conducting census
4. As a plural noun, who defined statistics very adquetely and realistically?
a) Webster b) Bowley
c) A.M. Tuttle d) Secrist
5. Who stated statistics as "aggregate of knowledge brought together for
practical ends?
a) W.I. King b) A.L. Bowley
c) Prof. H. Secrist d) None of the above
6. "Statistics are effected to a marked extend by"
a) Aggregate of facts b) multiplicity of causes
c) numerically stated d) complex manifestations
7. Quantitative characteristic includes
a) Beauty b) emotion
c) intelligence d) data
8. Data is collected with reasonable standard of
a) Numerical method b) feasibility
c) accuracy d) All the above
9. Statistics is one of those sciences which are only indicative of a trend,
therefore
a) it is probabilistic than deterministic
b) It is deterministic than probabilistic
c) a definite date collection method is unnecessary
d) data sources should be clear
10. The definition of various terms, units of collection and measurement
help ensuring that
a) Analysis is easy

- b) method is systematic and empirical
- c) Construction of conclusion is easy
- d) data is relevant to the purpose
- 11. Statistics should be capable of .....
- a) Empiricism b) systematic inquiry
- c) comparison d) evaluation
- 12. What characteristic does statistics emphasises, as a Method or as a singular noun?
- a) Descriptive b) analytical
- c) inferential d) comparative
- 13. According to Lincoln.L.Chao, what is the primary objective of modern statistics?
- a) Presentation of data b) collection of quantitative data
- c) Assisting in making decisions d) summarization of data
- 14. ..... guides from the planning stage to the stage of drawing of final conclusions
- a) Numerical facts b) statistical methods
- c) Data d) None of the above
- 15. Which characteristic of the following is not belonging to, 'statistics as a method'?
- a) a tool of analysis
- b) helps processing the raw
- c) descriptive nature
- d) processing done by systematic analysis & interpretation.
- 16. Which of the following is not an example of the functions of statistics?
- a) Average b) Intelligence quotient (IQ)
- c) Diagram d) x2 test
- 17. What does statistics of distribution indicates?
- a) Consumer preference b) strength of the desire of people
- c) Wealth of nation d) economic conditions of people
- 18. Which of the following index numbers is an important statistical concept in economic theory?
- a) Per capita income b) cost of living
- c) Gross National Product d) Maximum Retail Price
- 19. The Govt. Administration is done through ...... which are formulated on statistical basis
- a) Effective planning b) Budgets
- c) Policies d) None of the above
- 20. National sample survey scheme is an example for ......
- a) Government policy b) planning
- c) population Analysis d) Business
- 21. What are the two broad functions of statistical methods in Social Research?
- a) Description and Summarizing b) Description and Indication
- c) Description and Induction d) Applied Mathematics and Induction
- 22. What does Social Researchers seek out of vast and confusing variety of individual characters?

- a) Generalizations b) decisions
- c) single events d) group characteristics
- 23. What is the reason for the necessity of statistics in the field of social sciences?
- a) Simplification and quantitative approach
- b) knowledge acquisition and description
- c) Easiness and analytical
- d) All the above
- 24. Which among the following is a material for statistics?
- a) Honesty b) Poverty
- c) Wisdom d) Numerical data
- 25. (i) Statistical laws are not exact
- (ii) Statistics reveals the entire story

Choose the correct from the following:

- a) Both the statements are correct
- b) Only the first statement is correct
- c) Only the second statement is correct
- d) Both the statements are wrong
- 26. Which among the following is not a merit of the census method?
- a) Results are representative b) Information on rare events
- c) Results are reliable d) In appropriate method for enumeration
- 27. What is the reason for dropping the enumeration process?
- a) cost is prohibitive b) time consuming
- c) large efforts d) All the above
- 28. What embodies sampling?
- a) Haphazard selection b) Numbers
- c) Definite rules d) Accuracy
- 29. The basic objective of sampling study is ......
- a) to draw inference b) to check units of population
- c) to collect numerical data d) to make census
- 30. The Mathematical theory of probability has helped to form the ......
- a) Statistical theory b) Law of Inertia of large numbers
- c) Law of statistical Relativity d) Law of statistical Regularity
- 31. How did king relate the statistical Regularity and Random sampling?
- a) Sampling is not related to calculation
- b) Sample chosen possess some features of the whole
- c) Chosen sample can follow the statistical methods
- d) None of the above
- 32. What is the characteristic of the sample which is selected randomly?
- a) It is not average of the whole b) It would be representative
- c) It would not be equal to the population d) All the above
- 33. When someone studies about the average height of the students of a particular university, which way will be selected from the following, for more accurate results?
- a) Take the measurement of all the students in the University
- b) Select some students randomly from some colleges

- c) Select randomly from every colleges
- d) Select all the students from some colleges
- 34. (i) the results derived from sampling method may be different from population
- (ii) Sampling method derives only the same characteristics of the population

Choose the correct from the following:

- a) Both the statements are correct
- b) Both the statements are wrong
- c) Only the first statement is correct
- d) only the second statement is correct
- 35. The Law of Inertia of Large Numbers means .....
- a) Opposite of the law of statistical Regularity
- b) Same to the Law of statistical Regularity
- c) Sample in Large Numbers create big variations in results
- d) Opposite to the mathematical theory of probability
- 36. To study the variation in the production of rice over a number of years, select from the following, the appropriate sample for drawing results that reflects only small variations?
- a) Collect data from some states
- b) Collect data from all the states
- c) Collect data from one or two states
- d) Collect data from more than half the number of states
- 37. Which among the following is not an essential of sampling?
- a) Representativeness b) Complete
- c) Same d) Dependent
- 38. "More reliable results can be obtained through sampling method", because .....
- a) Statistical error is low b) Saves time
- c) Cost is low d) None of the above
- 39. (i) Judging a person is an example for random sampling method
- (ii) Blood taken for testing is an example for sampling method

Choose the correct from the following:

- a) Both the statements are correct
- b) Both the statements are wrong
- c) Only the first statement is correct
- d) Only the second statement is correct
- 40. Which among the following is the sensible theory of sampling?
- a) Induction b) inertia
- c) regularity d) None of the above
- 41. "Equal chances of being included in the sample", about what does

Dr. Yates and Harper defined like this?

- a) Stratified sampling b) Probability sampling
- c) Proportional Sampling d) None of these
- 42. Who own the random number table which comprising of 15,000 digits arranged in twos?

- a) Kendall and B.B. Smith b) L.H.C. Tippet c) British Census report d) Fisher and Yates 43. Non-proportional random sampling is a sub-type of ...... a) Unrestricted random sampling b) Simple Random Sampling c) Stratified Random Sampling d) Cluster Random Sampling 44. When the population is badly effected, which type of sampling is appropriate? a) Systematic sampling b) stratified sampling c) Cluster sampling d) None of the above 45. ..... sampling introduced its ability to change in accordance with the changing situations. a) Multistage b) Judgement c) Deliberate d) Systematic 46. Quota sampling is the combination of ...... and ...... Sampling a) Purposive and Deliberate b) Purposive and systematic c) Stratified and systematic d) Purposive and stratified 47. Snowball smpling is used for data collection through ..... a) Connecting relations b) small population c) representatives d) none of the above 48. Choose the advantage of snowball sampling from the following a) Population is not seen b) Total size of population is not known c) Researcher's acquaintance influence the research d) Contradicts with conventional nations 49. 'A text Book of Statistics' is written by ..... a) S.P. Gupta b) P.L. Bhandarkar, T.S Wilkinson c) Pauline V. Young d) L.R. Potti 50. .... is the short summary of the technical report which is prepared by a Doctoral students. a) research article b) research report c) interim report d) research report 51. .... is a narrative and authoritative document on the outcome of research effort. a) research proposal b) summary report c) synopsis d) research report 52. It provides systematic knowledge on problem and issues analysed. a) research report b) research abstract c) research proposal d) research design
- 53. The ...... of a set of observations or scores is obtained by dividing the sum of all the values by the total number of values
- a) mean b) median
- c) mode d) dispersion
- 54. .... is a measure of position rather than of magnitude.
- a) mode b) median
- c) mean d) range
- 55. The most frequently occurring score in a distribution.

a) mean b) mode c) median d) quartile 56. .... provide a shorthand summary of data. a) frequency table b) Simple table c) cross table d) two way table. 57. ..... is a process of summarizing raw data and displaying them on compact statistical tables for further analysis. a) statistical analysis b) data processing c) tabulation d) table construction 58. ..... is constructed by erecting vertical lines on the limits of the class intervals marked on the base line a) frequency polygon b) histogram c) line graph d) bar charts 59. ..... are the most effective pictorial device for comparing data. a) bar charts b) graphs c) pictograms d) diagramme 60. ..... is a line chart plotted on arithmetic graph paper from a cumulative frequency distribution that may be cumulated downward or upward. a) Lorenz curve b) bar charts c) ogive d) pictograms 61. The values are represented by identical symbol or pictures. a) barcharts b) pictograms c) circle charts d) graphs 62. A single value that represent the average characteristic of its frequency distribution a) quartiles b) grouped data c) central tendency d) range 63. The extent of variability is measured by ...... a) central tendency b) measures of dispersion c) arithmetic mean d) co-relation 64. .... measures the difference between the highest and lowest scores of a distribution a) range b) dispersion c) co-relation d) regression 65. Academic community is otherwise called a) general public b) target audience c) participant audience d) scientific community 66. .... is a succinct statement of the findings of the project a) proposal b) abstract c) project d) report 67. ..... provides a summary of the current state of knowledge in the area of investigation a) introduction b) analysis c) conceptual framework d) review of literature 68. .... is the first page of research report a) introduction b) title page

c) acknowledgement d) declaration
69 is a process of checking to detect and correct errors and omissions
a) processing b) analysis
c) editing d) coding
70 is a trial test of a specific aspect of the study
a) plan of the study b) design of the study
c) pie test d) hypothesis
71 an abstract symbol representing an object or a certain phenomenon
a) definition b) concepts
c) objectivity d) hypothesis
72 is the response to code its response
a) tabulation b) coding
c) classification d) analysis
73. The recording of the data is done on the basis of the scheme
a) coding b) tabulation
c) classification d) analysis
74. It is a process of checking to detect and correct errors and omissions
a) coding b) editing
c) analysis d) classification
75 is commonly used for presenting the sectional distribution of
any other type of simple percentage distribution
a) pictogram b) pie chart
c) line graph d) bar chart
76 is an intermediary process between data coding and data tabulation
a) analysis b) editing
c) transcription d) reporting
77 is a declarative statement combining concepts.
a) theory b) reviews
c) hypothesis d) variables
78 helps making estimations or generalizations from the results
of sample surveys.
a) statistical analysis b) hypothesis
c) classifications d) tabulation
79 is an organized inquiry
a) scientific method b) experimental study
c) research d) social science research
80 is drawn on the basis of cumulative frequencies
a) Cumulative frequency polygon b) frequency polygon
c) histogram d) graphs
81 is a plan, structure and strategy of investigations so conceived
as to obtain answers to research problem
a) research plan b) research proposal
c) research design d) research methodology
82. Any variable that is responsive for bringing about a change is called an
variable that is responsive for bringing about a change is caned an variable
a) dependent b) independent

c) control d) Inter	dependent
83. An image, per	ception or concept that is capable of measurement is
called a	
a) attribute b) the	ory
c) paradigm d) va	riable
84 i	s a purposeful systematic and selective way of watching and
listening to an int	1 1 2
a) observation b)	
	participant observation
	le in the section
a) reference b) pro	
	ort d) content section
	. is the first of the terminal items presented at the end of the
research report.	. Is the first of the terminal items presented at the end of the
a) author index b)	footnotes
c) appendices d) b	
, <b></b> .	collection instruments are included in
a) references b) a	
c) bibiliography d	1
	numbered consecutively within each chapter or throughout
the entire report.	numbered consecutivery within each enapter of unroughout
a) references b) b	hiliography
c) footnotes d) Ap	±.
	are statements of factual information based upon the data
analysis.	
a) findings b) revi	
c) methodology d	* -
	. is a measure that occurs most frequently in a distribution.
a) mean b) averag	
c) mode d) media	
	is a positional average.
a) standard deviat	
c) correlation d) n	
-	sentation is particularly useful when the prospective readers
	people or general public
a) graphic b) table	
c) qualitative d) q	
93 bar	charts are commonly used for presenting time series data.
a) vertical b) hori	zontal
c) component d) c	rircle
-	depth comprehensive study of a person, unit, institution etc.
	s b) observation method
c) case-study d) fe	
•	esearch problem is the first and most important step in the
research process.	r
a) formulating b)	designing
.,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

c) selecting d) reporting	
96 is a way to systematically solve the research problem.	
a) research design b) research methodology	
c) research planning d) research discussion	
97 research aims at finding a solution for an immediate problem	
facing a society.	
a) applied b) descriptive	
c) qualitative d) empirical	
98 is also known as arithmetic average	
a) dispersion b) range	
c) quartile d) mean	
99 provides the complete outline of the research report along with	
all details.	
a) preliminary b) body of the report	
c) main text d) methodology	
100. Research simply means a search for	
(a.Problems, b.facts, c.results, d.topics)	
101. Research may be made through either arbitory method or method?	
(a.rational, b.scientific imagination, c.vague)	
102. Who defined research is an organized enquiry?	
(a.kerlinger, b.emory, c.morry, d.redman)	
103. Who defined research is a systematic development of logically related	
prepositions?	
(a.Black&champion, b.Comte, c.Weber, d.Morry)	
104. Research adoptmethod?	
(a.scientific, b.political, c.individual, d.public)	
105. Research is based on empirical evidences andexperience?	
(a.scientific ,b.political, c.rational, d.observable)	
106. Who defined research is an systematic, controlled, empirical and critical	
investigation?	
(a.Spencer, b.Weber, c.Kerlinger, d.Morry)	
107develop theories?	
(a.observarion,b.casestudy,c.research,d.survey)	
108. Arbitory method is based on?	
(a.investigation, b.imagination,c.research,d.scientific)	
109is a systematic step by step procedure?	
(a.observation,b.calculation,c.scientificmethod)	
110. Who says research is a systematic effort to gain knowledge?	
(a.Black&champion,b.Emory,c.Kerlinger,d.Redman)	
111. Two elements of scientific method; procedural components and?	
(a.rational components, b.personal components, c.individual components,	
d.group components)	
112. There is no shortcut to truth, who says?	
(a.Morry, b.Spencer, c.Karlpearson, d.Marx)	
113is the tentative conclusion?	
(a.observation, b.verification, c.hypothesis)	

114is the hallmark of scientific method?
(a.concepts, b.objectivity, c.ethicalneutrality)
115. Logical reasoning process consist of induction and?
(a.generalisation, b.deduction, c.verifiability)
116. Who says theory as a integrated body of definitions, assumptions?
(a.arnold rose, b.p.v.young, c.kerlinger)
117as a set of systematically interrelated concepts, definition,
prepositins?
(a.fact, b.research, c.theory)
118. Empirical research may given a new focus to the existing theory means
(a.reserch clarifies theory, b.research initiate theory, c.research refocusses
theory)
119define social resarch as the systematic method of discovering
new facts and verifying old facts?
(a.p.v.young, b.emory, c.black&champion)
120are empirically verifiable observation?
(a.research, b.fact, c.theory)
121is the one important role in research.?
(a.deduction, b.induction, c.prediction)
122 means basing coclusions on facts without any biasand value
judgement?
(a.subjectivity, b.objectivity, c.verifiability)
123. Relation with other aspect of research creates?
(a.value related problem, b.ethical problem, b.personal prejudice and bias)
124 is a systematic method of exploring, analyzing and conceptualizing
human life in order to extend, correctoror verify knowledge of human behaviour
and social life?
(a.scientific research, b.qualitative research, c.social science research)
125. The purpose of research is to discover answer to questions through
application of?
(a.scientific method, b.scientific research, c.scientific procedure)
126research is focused to collect knowledge without any intention to apply it?
(a.pure research, b.exploratory research, c.applied research)
127. Pure research is also known as?
(a.fundamental research, b.action research, c.practical research)
128research is problem oriented and action directed?
(a.analytical research, b.action research, c.applied research)
129has pointedout that applied social sciences in policy decision?
[a.Kerlinger, b.Heartfield, c.Berelson, d.Julious Smon]
130. who said that research studies have differing degree of purity and
applicability?
[a.Faraday, b.Julysimon, c.Bogardus, d.Morry]
132. Classical design is a type ofresearch?
[a.basic research, b.applied research, c.action research, d.exploratory research]
133. Plan for research is labeled as?
[a.casestudy, b.researchdesign, c.intensive study]
[

134. An intensive study of particular case is
[a.content analysis, b.casestudy, c.research design]
135has defined case study is investigating the contemporary
phenomena of real life?
[a.Omerry, b.Yin, c.Burus, d.Sarantkose]
136may be a source of hypothesis of future research?
(a.Casestudy, b.Research design, c.Content analysis)
137. Absence of representatives are special feature of?
[a.research, b.content analysis, c.narrative method, d.casestudy]
138. Object of casestudy is to?
[a.gueralise theory,b.detive theory,c.to expand theory]
139. Casestudies are not useful for
[a.in-depth study, b.flexible data collection, c.generalization]
140. According to
[a.bogardus, b.sarantkos, c.yiu, d.ernaan]
141. Objectivity, generality, systematic and quality are the charecterestics of
[a.casestudy, b.projective technique, c.narrative method, d.content analysis]
142. Contextual analysis is a type of
[a.descriptive analysis, b.historicalanalysis, c.case study]
143. The narrative method is used inresearch in social science?
[a.pure research, b.content analysis, c.applied research, d.casestudy]
144. The word narrative derived fromverb"narrare"?
[a.latin, b.greek, c.Italian, d.Persian]
145. Narrative enquiry is distinctive in the field of?
[a.quantitative, b.qualitative, c.descriptive, d.experiemental]
146. Astory is a starting point ofmethod?
[a.experiemental, b.quantitative, c.scientific, narrative]
147. The first four groups were created at the?
[a.Chicago school, b.Frankfurt school, c.Beurof school]
148. The term focused group was coined by?
[a.Powel, b.Merton, c.Dichter, d.Mitchell]
149method help us to get the feed back about what peopledo over a
long period of time?
[a.questionnaire,b. surveymethod, c.casestudy, d.group interview]
150research is a systematic gathering of information among
individuals and collectives?
[a.casestudy, b.survey,c. content analysis, d.focus interview]
151 is defined as a tentative or working proposition suggested as a
solution to a problem.
a) Research
b) Hypothesis
c) Objective
d) Concepts
152. It essentially states that there is no relation between the variables of the
problem.
a) Hypothesis

b) Crude hypothesis
c) Refines hypothesis
d) Working
153 indicates a plan of action to be carried out in connection with a
proposed research work.
a) Research proposal
b) Research abstract
c) Research methodology
d) Research design
154 study which wants to determine the frequency of occurrence of
an event of its association with something.
a) Descriptive
b) Formulate
c) Explorative
d) Diagnostic
155. This is an intensive and searching interview aiming at studying the
respondent's opinion, emotions or convictions on the habits of an interview
guide.
a) Clinical interview
b) Depth interview
c) Focused interview
d) Directive interview
as a method of collecting primary data in which a number of
individuals with a common interest interact with each other.
a) Group interview
b) Depth interview
c) Direct interview
d) Focused interview
157 involve presentation of ambiguous stimuli to the respondents
for interpretation.
a) Psychological test
b) Socio metric test
c) Projective techniques
d) Case study
158 leaves as a suggestive reference or prompter during interview.
a) Interview guide
b) Diary
c) Field note
d) Interview schedule
159. Aquestion can be answered in one of the two responses
a) open type b) closed type
b) closed type
c) dichotomous
d) multiple choice 160 are those which are collected fresh and are original in character
a) Primary data
a) I Illiary data

b) Secondary data
c) Qualitative data
d) Quantitative data
161 observation, the observer have been old specifically what is to be
observed
a) structured
b) controlled
c) discussed
d) participated
162. it enable the researcher to relate logically known facts to intelligent
guesses about unknown conditions.
a) Research design
b) Pre-test
c) Hypothesis
d) Pilot study
163. It enables the researcher to acquaint himself with current knowledge in
the field in which he is going to conduct his research.
a) Social survey
b) Review of literature
c) Research proposal
d) Research design
164. The type of questionnaire calls for a free response in the
respondent's own words.
a) Closed
b) Open
c) Structured
d) unstructured
165 refers to a scale with a set of points which describes varying
degrees of the dimensions of an attribute observed.
a) Rating scale
b) Check list
c) Score card
d) Observation
166. A refers to any collection of specified group of human beings
a) Sampling
b) Population
c) Random sampling
d) Non probability sampling
167 data are verbal or other symbolic materials
a) Quantitative
b) Primary
c) Qualitative
d) Secondary
168 is directed towards the solution of a problem.
a) Research
b) Data collection

c) Hypothesis
d) Survey
169 research is directed towards the solution of immediate, specific
and practical problem.
a) Basic
b) Diagnostic
c) Applied
d) Descriptive
170. Control is the essential ingredient of method.
a) Descriptive
b) Diagnostic
c) Experimental
d) Explorative
171 method can be applied only where a high degree of precision is
not necessary.
a) Case study
b) Local correspondents
c) Simple random questionnaire
d) Mailed
172. A meeting of persons face to face especially for the purpose of formal
conference on some point.
a) Interview
b) Observation
, , , , , , , , , , , , , , , , , , ,
c) Participant observation
d) Projective techniques/ survey
173. Information that is represented usually as words, not numbers.
a) Qualitative data
b) Primary data
c) Quantitative data
d) Scientific data
174 research focuses primarly on the meaning of subjective
attributes of individuals or groups.
a) Quantitative
b) Qualitative
c) Social science
d) Descriptive
175. It is a quantity that expresses a quantity in numbers to allow in numbers
to allow more praise measurement.
a) Variable
b) Attribute
c) Concept
d) Definition
176 are the most complete type of survey.
a) Social survey
b) Sampling
c) Censuses

d) Data collection
177. A proposition which can be put to test to determine validity.
a) Hypothesis
b) Operational definition
c) Data collection tool
d) Research design
178. Information collected by the researcher for the purposes of the project
immediately.
a) Secondary data
b) Primary data
c) Qualitative data
d) Quantitative data
179. It is the collection of data concerning the living and working conditionals
of the people in a given community
a) Sampling
b) Social survey
c) Case study
d) Data collection
180. It takes place with persons known to have been involved in particular
concrete situations.
a) Personal interview
b) Focused interview
c) Depth interview
d) Repeated interview
181. It is a verbal method of securing data in the field surveys.
a) Interview
b) Participant observation
c) Questionnaire method
d) Projective technique.
182 implies a smaller representation of a larger whole.
a) Survey
b) Population
c) Sample
d) Census
183 as the conceptual structure with in which the research is
conducted.
a) Research proposal
b) Research design
c) Hypothesis
d) Pilot study
184. A concept which can take on different quantitative values is called a
a) Variables
b) Values
c) Control groups
d) Paradigm
185 method in the application of valid and reliable research methods.
103 method in the application of valid and fenance research methods.

a) Experimental
b) Scientific
c) Survey
d) Case-study
186 is a organised enquiry
a) Research
b) Investigation
c) Survey
d) Experiment
187. A set of systematically related propositions specifying causal relationships
among variables.
a) Research
b) Theory
c) Concept
d) Hypothesis
188 means basing conclusions on facts without any bias and value
judgement.
a) Subjectivity
b) Objectivity
c) Research
d) Theory
189. Rorschach test comes under projective techniques.
a) Verbal
b) Visual
c) Expressive
d) Audio
190. The search for answers to research questions is called collection of
a) Facts
b) Data
c) Evidences
d) Reasons

## **ANSWER KEY**

1.c	2.a	3.a	4.c	5.d	6.b	7.d	8.c	9.a	10.d
11.c	12.a	13.c	14.b	15.c	16.b	17.d	18.b	19.b	20.b
21.c	22.d	23.a	24.d	25.b	26.d	27.d	28.c	29.c	30.a
31.b	32.b	33.c	34.c	35.b	36.b	37.d	38.a	39.a	40.a
41.b	42.d	43.c	44.b	45.a	46.d	47.a	48.a	49.d	50.d
51.a	52.a	53.a	54.b	55.b	56.a	57.c	58.b	59.c	60.c

61.b	62.c	63.b	64.a	65.d	66.b	67.d	68.b	69.c	70.b
71.b	72.c	73.a	74.b	75.b	76.c	77.c	78.a	79.c	80.a
81.c	82.b	83.d	84.a	85.b	86.d	87.b	88.c	89.a	90.c
91.d	92.a	93.a	94.c	95.a	96.b	97.a	98.d	99.c	100.b
101.b	102.b	103.a	104.a	105.d	106.c	107.c	108.b	109.c	110.d
111.b	112.c	113.c	114.b	115.b	116.a	117.c	118.c	119.a	120.b
121.c	122.b	123.b	124.c	125.c	126.a	127.a	128.c	129.d	130.d
131.c	132.b	133.b	134.b	135.a	136.b	137.c	138.c	139.d	140.d
141.b	142.d	143.a	144.b	145.d	146.c	147.c	148.d	149.b	150.b
151.a	152.d	153.c	154.b	155.a	156.c	157.a	158.c	159.a	160.a
161.c	162.b	163.b	164.a	165.b	166.c	167.a	168.c	169.c	170.b
171.a	172.c	173.b	174.a	175.c	176.a	177.b	178.b	179.b	180.a
181.c	182.b	183.a	184.b	185.a	186.b	187.b	188.b	189.b	