

# National Testing Agency

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## Studies in Science Policy 148

<b>Group Number :</b>	1
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<b>Group Maximum Duration :</b>	0
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<b>Revisit allowed for view? :</b>	No
<b>Revisit allowed for edit? :</b>	No
<b>Break time:</b>	0
<b>Group Marks:</b>	100

## Section 1

<b>Section Id :</b>	128206281
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional:</b>	Mandatory
<b>Number of Questions:</b>	40
<b>Number of Questions to be attempted:</b>	40
<b>Section Marks:</b>	40
<b>Display Number Panel:</b>	Yes
<b>Group All Questions:</b>	No

<b>Sub-Section Number:</b>	1
<b>Sub-Section Id:</b>	128206458
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 1282069849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**  
**Correct Marks : 1 Wrong Marks : 0**

Nathan Rosenberg is known for his work on:

- History of technological change.
- Economics of technological change.
- Both (a) and (b)
- None of the above.

**Options :**

- 12820638919. A
- 12820638920. B
- 12820638921. C
- 12820638922. D

**Question Number : 2 Question Id : 1282069850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Grassroots innovations refer to

- a. Innovations by the people at the grassroots.
- b. Innovations for the people at the grassroots.
- c. Both a and b.
- d. None of the above.

**Options :**

- 12820638923. A
- 12820638924. B
- 12820638925. C
- 12820638926. D

**Question Number : 3 Question Id : 1282069851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In 'Game Theory', which of the following is always true:

- a. Every Nash Equilibrium is also Dominant Strategy Equilibrium.
- b. Every Dominant Strategy Equilibrium is also a Nash Equilibrium.
- c. A Nash Equilibrium is never Dominant Strategy Equilibrium.
- d. None of the above.

**Options :**

- 12820638927. A
- 12820638928. B
- 12820638929. C
- 12820638930. D

**Question Number : 4 Question Id : 1282069852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The Law of unintended consequence of technology can be most suitably attributed to:

- a. Nathan Rosenberg
- b. Robert K Merton
- c. Donald Trump
- d. M K Gandhi

**Options :**

- 12820638931. A
- 12820638932. B
- 12820638933. C

12820638934. D

Question Number : 5 Question Id : 1282069853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

'Mathew Effect' in Sociology of Science refers to the phenomenon, where for a joint work, the

- Eminent scientists get more credit than unknown researchers.
- Unknown researchers get more credit than the eminent scientists.
- Credit does not depend on reputation.
- None of the above.

Options :

12820638935. A

12820638936. B

12820638937. C

12820638938. D

Question Number : 6 Question Id : 1282069854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Ministry of AYUSH, the acronym (AYUSH) stands for:

- AYUrveda, Siddha, Homoeopathy;
- Ayurveda, Yoga, Unani, Siddha & Swoa Rigpa, Homeopathy
- Ayurveda, Unani, Swoa Rigpa, Homoeopathy.
- Ayurveda, Yoga, Unani, Siddha, Homeopathy.

Options :

12820638939. A

12820638940. B

12820638941. C

12820638942. D

Question Number : 7 Question Id : 1282069855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

While the previous three industrial revolutions, were characterised mainly by advances in technology, the 4<sup>th</sup> Industrial Revolution is characterised by advancement in communication and connectivity-a view propagated by

- Klaus Schwab (Founder, World Economic Forum)
- Donald Trump (President of USA)
- Christine Lagarde (Head, International Monetary Fund)
- Kristalina Georgieva (Head, World Bank)

Options :

12820638943. A

12820638944. B

12820638945. C

12820638946. D

Question Number : 8 Question Id : 1282069856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one is unequivocally true:

According to the Affectance Motivation theory: Intrinsic Motivations and Extrinsic Incentives

- a. always have harmonious relationship with each other
- b. may have a trade-off relationship with each other
- c. Are always unrelated
- d. None of the above.

Options :

12820638947. A

12820638948. B

12820638949. C

12820638950. D

Question Number : 9 Question Id : 1282069857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The concept of 'Division of Labour' can be found in the writings of

- a. Adam Smith
- b. Aristotle
- c. Karl Marx
- d. All of the above

Options :

12820638951. A

12820638952. B

12820638953. C

12820638954. D

Question Number : 10 Question Id : 1282069858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Tobit model of estimation is used, when

- a. the dependent variable is a category variable.
- b. the dependent variable is censored.
- c. the dependent variable is continuous and uncensored.
- d. independent variables are censored.

Options :

12820638955. A

12820638956. B

12820638957. C



12820638958. D

Question Number : 11 Question Id : 1282069859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical inference is used for:

- a. Point Estimation.
- b. Interval estimation.
- c. Both of the above
- d. None of the above

Options :

12820638959. A

12820638960. B

12820638961. C

12820638962. D

Question Number : 12 Question Id : 1282069860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is entirely correct.

In Hypothesis testing,

- a. A critical region is the region of values that correspond to the rejection of the null hypothesis.
- b. A critical region is the region of values that correspond to the acceptance of the null hypothesis.
- c. A critical region is the region of values that correspond to the rejection of the null hypothesis at some chosen level of confidence.
- d. A critical region is the region of values that correspond to the acceptance of the null hypothesis at all levels of confidence.

Options :

12820638963. A

12820638964. B

12820638965. C

12820638966. D

Question Number : 13 Question Id : 1282069861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In Economics, following a 'Hicks neutral' technical change

- a. The productivity of labour goes up more than the productivity of capital
- b. The productivity of capital goes up more than the productivity of labour.
- c. The productivity of labour and capital go up by the same proportion.
- d. None of the above.

Options :

12820638967. A

12820638968. B

12820638969. C

12820638970. D

Question Number : 14 Question Id : 1282069862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Whether a patent law is strong or weak depends on

- a. The Length of Patent protection.
- b. The required degree of inventiveness.
- c. The patent renewal fees.
- d. All of the above.

Options :

12820638971. A

12820638972. B

12820638973. C

12820638974. D

Question Number : 15 Question Id : 1282069863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rare diseases are called so, because

- a. Its rare to find drugs for these diseases.
- b. It affects only a miniscule of the population.
- c. Its rare to find a doctor for these diseases.
- d. None of the above.

Options :

12820638975. A

12820638976. B

12820638977. C

12820638978. D

Question Number : 16 Question Id : 1282069864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Whose area of work is not correctly Matched?

- a. Saumya Swaminathan-Health Sector
- b. Kiran Mazumdar Shaw – Bio-technology
- c. Kalpana Chawala- Space Science
- d. Kiran Bedi –Mathematical Science

Options :

12820638979. A

12820638980. B

12820638981. C

12820638982. D

Question Number : 17 Question Id : 1282069865 Question Type : MCQ Option Shuffling : No Display Question  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 'Snow ball' sampling is a method of

- a. Random selection of Respondents
- b. Selection of Key informants and through him selection of other respondents
- c. Purposive sampling
- d. Quota Sampling

Options :

12820638983. A

12820638984. B

12820638985. C

12820638986. D

Question Number : 18 Question Id : 1282069866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

According to Popper, the "method of science"

- a. does not exist
- b. is induction
- c. is refutation
- d. none of the above

Options :

12820638987. A

12820638988. B

12820638989. C

12820638990. D

Question Number : 19 Question Id : 1282069867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

According to Popper, a theory is refutable if and only if

- a. we can demonstrate that it is false
- b. there is some conceivable observation which is inconsistent with it
- c. there is some actual observation which falsifies it
- d. all of the above

Options :

12820638991. A

12820638992. B

12820638993. C

12820638994. D

Question Number : 20 Question Id : 1282069868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The method of fire extinguishing by isolating the fire from the supply of oxygen by blanketing is known as

- a. Smothering
- b. Starving
- c. Accumulation
- d. Cooling

Options :

- 12820638995. A
- 12820638996. B
- 12820638997. C
- 12820638998. D

Question Number : 21 Question Id : 1282069869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Process innovation refers to:

- a. the development of a new service.
- b. the development of a new product.
- c. the implementation of a new or improved production method.
- d. the development of new products or services.

Options :

- 12820638999. A
- 12820639000. B
- 12820639001. C
- 12820639002. D

Question Number : 22 Question Id : 1282069870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a mode of international technology transfer?

- a. industrial espionage
- b. joint ventures
- c. patents
- d. licensing

Options :

- 12820639003. A
- 12820639004. B
- 12820639005. C
- 12820639006. D

Question Number : 23 Question Id : 1282069871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



The four most useful forecasting techniques are

- a. Delphi, scenarios, S-curves, and morphological analysis.
- b. scope, direction, speed, and intensity.
- c. scanning, monitoring, forecasting, and assessment.
- d. planning, collecting, analyzing, and presenting.

Options :

12820639007. A

12820639008. B

12820639009. C

12820639010. D

Question Number : 24 Question Id : 1282069872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A Geostationary Satellite revolves at

- a. Any Height
- b. Fixed Height
- c. Height above pole
- d. Height which depends on its mass

Options :

12820639011. A

12820639012. B

12820639013. C

12820639014. D

Question Number : 25 Question Id : 1282069873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The name of the first nuclear reactor of India is

- a. Urvashi
- b. Kamini
- c. Rohini
- d. Apsara

Options :

12820639015. A

12820639016. B

12820639017. C

12820639018. D

Question Number : 26 Question Id : 1282069874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The name of the Light Combat Aircraft developed by India is

- a. Chetak
- b. Brahmos
- c. Astra
- d. Tejas

Options :

12820639019. A

12820639020. B

12820639021. C

12820639022. D

Question Number : 27 Question Id : 1282069875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following institute is wrongly matched with its location?

- a. National Dairy Research Institute -----Karnal
- b. National Research Center on Camel- Jorbeer (Bikaner)
- c. Central Arid Zone Research Institute-----Jodhpur
- d. Central Goat Research Institute- Jodhpur

Options :

12820639023. A

12820639024. B

12820639025. C

12820639026. D

Question Number : 28 Question Id : 1282069876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Responsible Research and Innovation (RRI) arises from a \_\_\_\_\_ process.

- a. Bottom-Up
- b. Informal Public Engagement
- c. Public Participation in Science
- d. Top-Down

Options :

12820639027. A

12820639028. B

12820639029. C

12820639030. D

Question Number : 29 Question Id : 1282069877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The European Commission's RRI Framework consists of six Key Elements, namely, Public Engagement, Gender Equality, Science Education, Open Access, Governance, and \_\_\_\_\_. Which is the missing Key Element in this Framework?

- a. Academic Integrity
- b. Bioethics
- c. Ethics
- d. Research Integrity

Options :

- 12820639031. A
- 12820639032. B
- 12820639033. C
- 12820639034. D

Question Number : 30 Question Id : 1282069878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who wrote the book titled "The Ethics of Invention: Technology and the Human Future" that deals with a particular element of RRI Framework?

- a. Bengt-Åke Lundvall
- b. Calestous Juma
- c. Mammo Muchie
- d. Sheila Jasanoff

Options :

- 12820639035. A
- 12820639036. B
- 12820639037. C
- 12820639038. D

Question Number : 31 Question Id : 1282069879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

RRI Framework is aligned with which of the European Commission's Funding Programme?

- a. FP6
- b. FP7
- c. Horizon 2020
- d. Horizon 2030

Options :

- 12820639039. A
- 12820639040. B
- 12820639041. C
- 12820639042. D

Question Number : 32 Question Id : 1282069880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a social scale?

- a. Likert type scale
- b. Bogardus scale
- c. Guttman Scale
- d. All of the above.

Options :

12820639043. A

12820639044. B

12820639045. C

12820639046. D

Question Number : 33 Question Id : 1282069881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Scientometrics is a study of

- a. measuring and analyzing science
- b. measuring and analyzing technology
- c. measuring and analyzing innovation
- d. All of the above

Options :

12820639047. A

12820639048. B

12820639049. C

12820639050. D

Question Number : 34 Question Id : 1282069882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

t-distribution is

- a. positively skewed
- b. negatively skewed
- c. uniform
- d. None of the above

Options :

12820639051. A

12820639052. B

12820639053. C

12820639054. D

Question Number : 35 Question Id : 1282069883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



Technological lock-in refers to

- a. the situation where an inefficient technology exists as the only technological solution.
- b. the situation where an inefficient technology has the major share among all possible technological solutions.
- c. the situation where a controversial technology exists as the only possible technological solution.
- d. None of the above.

Options :

- 12820639055. A
- 12820639056. B
- 12820639057. C
- 12820639058. D

Question Number : 36 Question Id : 1282069884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Indian Patent Act 1970 allowed process patents in

- a. All industrial sectors.
- b. In pharmaceutical, food and chemical industries.
- c. In pharmaceutical and electrical equipment industries.
- d. None of the above.

Options :

- 12820639059. A
- 12820639060. B
- 12820639061. C
- 12820639062. D

Question Number : 37 Question Id : 1282069885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Neglected diseases are called so, because

- a. The friends and members neglect the people suffering from these diseases.
- b. Physicians and Hospitals neglect people suffering from these diseases.
- c. Not much R&D is allocated to find new drugs for these diseases.
- d. Governments do not provide enough funds for treatment of these diseases.

Options :

- 12820639063. A
- 12820639064. B
- 12820639065. C
- 12820639066. D

Question Number : 38 Question Id : 1282069886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When the torque required by the machine is more than the torque supplied by the motor, the flywheel is

- a. Retarded
- b. Rotating with constant speed
- c. Accelerated
- d. Any of the above

Options :

- 12820639067. A
- 12820639068. B
- 12820639069. C
- 12820639070. D

Question Number : 39 Question Id : 1282069887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following term is used to describe predicting the direction and impact of a new technology?

- a. technology prediction.
- b. direction forecasting.
- c. technology forecasting.
- d. weather forecasting.

Options :

- 12820639071. A
- 12820639072. B
- 12820639073. C
- 12820639074. D

Question Number : 40 Question Id : 1282069888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If  $X$  is the no. of publications, and  $Y$  is the relative frequency of authors with  $X$  publications, then Lotka's law states that (for two constants  $C$  and  $n$ )

- a.  $Y = C/X^n$
- b.  $C = X/Y^n$
- c.  $X = C/Y^n$
- d. None of the above

Options :

- 12820639075. A
- 12820639076. B
- 12820639077. C
- 12820639078. D

Section 2

Section Id :	128206282
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	60
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	128206459
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 1282069889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Which of the following would NOT represent an interaction in a graph?

- I. Where the lines are parallel.
- II. Where the lines diverge.
- III. Where the lines converge.
- IV. Where the lines cross each other.

Choose the correct option.

- a. I, II and III
- b. I only
- c. III only
- d. I and II only

Options :

12820639079. A

12820639080. B

12820639081. C

12820639082. D

Question Number : 42 Question Id : 1282069890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

What is the name for a variable which has 2 different values/terms ?

- I. Dichotomous.
- II. Binary.
- III. Binomial.

Which of the following option is correct choice?

- a. Only I
- b. I and II
- c. I, II and III

Options :

- 12820639083. A
- 12820639084. B
- 12820639085. C
- 12820639086. D

Question Number : 43 Question Id : 1282069891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

The concept of 'variables' is derived from

- I. physics.
- II. Biology
- III. Statistics
- IV Psychology

Options :

- 12820639087. A
- 12820639088. B
- 12820639089. C
- 12820639090. D

Question Number : 44 Question Id : 1282069892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Who introduced the theory of measurement and scales of measurement into psychology?

- I. Stevens
- II. Stanley
- III. Schlosberg
- IV. Skinner

Choose the correct choice.

- a. I and II
- b. II, III and IV
- c. I only
- d. IV only

Options :

- 12820639091. A
- 12820639092. B
- 12820639093. C
- 12820639094. D

Question Number : 45 Question Id : 1282069893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0



Content analysis uses which of the below methods?

- I. Classifying.
- II. Counting.
- III. Recording.

Choose the correct choice.

- a. I and II
- b. I, II and III
- c. I only
- d. III only

**Options :**

- 12820639095. A
- 12820639096. B
- 12820639097. C
- 12820639098. D

Question Number : 46 Question Id : 1282069894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

What term(s) dominate(s) the qualitative-quantitative debate?

- I. Positivism.
- II. Metaphysics.
- III. Theism.
- IV. Critical realism.

Which of the following option is correct choice?

- a. Only I is correct
- b. Only II is correct
- c. Only I and II are correct.
- d. Only I, III and IV are correct

**Options :**

- 12820639099. A
- 12820639100. B
- 12820639101. C
- 12820639102. D

Question Number : 47 Question Id : 1282069895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

What is positivism?

- I. Positivism refers to knowledge about the nature of our being in the world as revealed through theoretical philosophizing.
- II. Positivism is a philosophical position on how we go about obtaining knowledge.
- III. Positivism refers to statistics and statistical analysis.
- IV. Positivism holds that knowledge is grounded in religion.

Choose the correct choice.

- a. I, III and IV
- b. II only
- c. III only
- d. II and III

**Options :**

12820639103. A

12820639104. B

12820639105. C

12820639106. D

**Question Number : 48 Question Id : 1282069896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 2 Wrong Marks : 0**

Match the research style, data, or instrument (X) with the description (Y).

X: research style, data, or instrument

- I. Quantification research instruments.
- II. Quantification.
- III. Qualitative methods.
- IV. Qualitative data.

Y: description

- A. The humanistic view that human experience and interaction is too complex to be reduced to variables.
- B. Can provide a more complete understanding of the subject matter of the research.
- C. A concentration on numbers and statistics rather than concepts.
- D. Can be alienating; the participants feel the research is not about them and they cannot respond accurately enough.

Which of the matching is correct?

- a. I-A, II-C, III-B, IV-D
- b. I-D, II-C, III-B, IV-A
- c. I-D, II-C, III-A, IV-B
- d. I-D, II-A, III-B, IV-C

Options :

- 12820639107. A
- 12820639108. B
- 12820639109. C
- 12820639110. D

Question Number : 49 Question Id : 1282069897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Delphi Method is

- I. an expert based method
- II. based on consensus principle
- III. used for Foresight exercise
- IV. requires multiple iterations

Choose the correct option.

- a. Only I and II
- b. II and IV
- c. I, III and IV
- d. I, II, III and IV

Options :

- 12820639111. A

- 12820639112. B
- 12820639113. C
- 12820639114. D

Question Number : 50 Question Id : 1282069898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Responsible Innovation means

- I. Any innovation, which leads to social sustainability
- II. Innovation, which ensures environmental sustainability
- III. It creates economic sustainability
- IV. it aims at addressing issues of accountability of innovation
- V. it considers future consequences of new ideas and technology

Select the one of the following options.

- a. only I, II and III correct
- b. only I, II, III and IV are correct
- c. I, II, III, IV and V are correct
- d. only I, II, III and V

Options :

- 12820639115. A
- 12820639116. B
- 12820639117. C
- 12820639118. D

Question Number : 51 Question Id : 1282069899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Un-intended consequences of technology refers to

- I. Positive unforeseen consequences of a technology
- II. Negative unforeseen consequences of a technology
- III. Controversial unforeseen consequences of a technology.

Which of the following is correct:

- a. Only I
- b. I and II
- c. I, II and III
- d. Only III

Options :

- 12820639119. A
- 12820639120. B
- 12820639121. C
- 12820639122. D

Question Number : 52 Question Id : 1282069900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0



Technological determinism is interpreted to mean that:

- I. the trajectory of technological change is independent of social forces.
- II. the trajectory of social change is determined by technology
- III. the trajectory of technological change is self-determined.
- IV. the trajectory of technological change is an autonomous process.

Which of the following is correct:

- a. Only I
- b. I and III
- c. Only III
- d. I, II, III and IV.

Options :

- 12820639123. A
- 12820639124. B
- 12820639125. C
- 12820639126. D

Question Number : 53 Question Id : 1282069901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

‘Scientific Temper’ aims to develop

- I. A spirit of Inquiry
- II. An attitude amenable to reasoned arguments.
- III. A disbelief in superstition.

Which of the following is correct:

- a. Only I
- b. Only II
- c. I and II
- d. I, II and III

Options :

- 12820639127. A
- 12820639128. B
- 12820639129. C
- 12820639130. D

Question Number : 54 Question Id : 1282069902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

'Scientism' refers to:

- I. The belief that science is the only reliable source of knowledge;
- II. Dogmatic endorsement of scientific methodology;
- III. Putting too high a value on natural science in comparison to other branches of learning;

Which of the following is correct:

- a. Only I
- b. I, II and III
- c. Only III
- d. Only II

Options :

12820639131. A  
12820639132. B  
12820639133. C  
12820639134. D

Question Number : 55 Question Id : 1282069903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

'Frascati Manual' intends to collect statistical data about research and development in

- I. Natural Sciences
- II. Engineering and Technology
- III. Social Sciences
- IV. Humanities

Which of the following is correct:

- a. I, and II
- b. Only I
- c. Only III
- d. I, II, III and IV.

Options :

12820639135. A  
12820639136. B  
12820639137. C  
12820639138. D

Question Number : 56 Question Id : 1282069904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

The Brundtland Report (1987) stated that the global environmental problems are the results of:

- I. Enormous poverty of the countries in the global South
- II. Unsustainable patterns of consumption in the North
- III. Unsustainable pattern of production in the North
- IV. Sustainable pattern of production in the South

Which of the following is correct:

- a. Only I
- b. I, II and III
- c. I, II, and IV
- d. II and III.

**Options :**

12820639139. A

12820639140. B

12820639141. C

12820639142. D

**Question Number : 57 Question Id : 1282069905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 2 Wrong Marks : 0**

Frugal innovations can be defined to include

- I. Innovations for the 'Bottom of the Pyramid'.
- II. Innovations by the people at the grassroots
- III. Innovations which are cheap and easy-to-use
- IV. Innovations based on experiential knowledge and intuition.

Which of the following is correct:

- a. Only I.
- b. I, II, III and IV
- c. II, III and IV
- d. Only IV

**Options :**

12820639143. A

12820639144. B

12820639145. C

12820639146. D

**Question Number : 58 Question Id : 1282069906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 2 Wrong Marks : 0**

## Science Policy Studies include

- I. History and Philosophy of Science and Technology
- II. Management of Science and Technology
- III. Economics of Innovation
- IV. Sociology of Science

Which of the following is correct:

- a. Only III
- b. Only IV
- c. I, II, III and IV.
- d. None of the above

Options :

- 12820639147. A
- 12820639148. B
- 12820639149. C
- 12820639150. D

Question Number : 59 Question Id : 1282069907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |      |                   |    |                                           |
|------|-------------------|----|-------------------------------------------|
| I.   | Joseph Schumpeter | A. | An Evolutionary Theory of Economic Change |
| II.  | Richard Nelson    | B. | Small is Beautiful                        |
| III. | E.F. Schumacher   | C. | The Economics of Industrial Innovation    |
| IV.  | Chris Freeman     | D. | The Theory of Economic Development        |

Answer:

- a. I-A, II-B, III-C, IV-D.
- b. I-D, II-B, III-C, IV-A
- c. I-D, II-A, III-B, IV-C
- d. I-B, II-A, III-D, IV-C

Options :

- 12820639151. A
- 12820639152. B
- 12820639153. C
- 12820639154. D

Question Number : 60 Question Id : 1282069908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |           |              |
|-----------|--------------|
| I. CDRI   | A. Lucknow   |
| II. IIMC  | B. Delhi     |
| III. CCMB | C. Hyderabad |
| IV. NCL   | D. Pune      |

Answer:

- I-A, II-C, III-B, IV-D
- I-A, II-D, III-C, IV-B
- I-A, II-B, III-D, IV-C
- I-A, II-B, III-C, IV-D.

Options :

12820639155. A

12820639156. B

12820639157. C

12820639158. D

Question Number : 61 Question Id : 1282069909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |                          |                      |
|--------------------------|----------------------|
| I. Creative destruction  | A. Kenneth Arrow     |
| II. Shared mental models | B. Dauglass North    |
| III. Routines            | C. Joseph Schumpeter |
| IV. Learning by doing    | D. Richard Nelson    |

Answer:

- I-A, II-B, III-C, IV-D
- I-B, II-A, III-C, IV-D
- I-C, II-D, III-B, IV-A
- None of the above

Options :

12820639159. A

12820639160. B

12820639161. C

12820639162. D

Question Number : 62 Question Id : 1282069910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0



Match the following:

- |                         |                    |
|-------------------------|--------------------|
| I. KUDOS                | A. Nathan S Kline  |
| II. Scientific Paradigm | B. Karl Popper     |
| III. Falsification      | C. Thomas Kuhn     |
| IV. Cyborg              | D. Robert K Merton |

Answer:

- I-A, II-B, III-C, IV-D
- I-D, II-C, III-B, IV-A
- I-B, II-C, III-D, IV-A
- None of the above

Options :

12820639163. A  
12820639164. B  
12820639165. C  
12820639166. D

Question Number : 63 Question Id : 1282069911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |                             |                        |
|-----------------------------|------------------------|
| I. Endogenous growth theory | A. Paul A David        |
| II. Innovation system       | B. Christopher Freeman |
| III. Path dependence        | C. Paul Romer          |

Which of the following is a correct match:

- I-A II-B, III-C
- I-B, II-C, III-A
- I-C, II-A, III-B
- None of the above

Options :

12820639167. A  
12820639168. B  
12820639169. C  
12820639170. D

Question Number : 64 Question Id : 1282069912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |                                                                |               |
|----------------------------------------------------------------|---------------|
| I. Monopoly is a natural breeding ground for innovation        | A. Schumpeter |
| II. Perfect competition promotes adoption of new technology    | B. Stiglitz   |
| III. Oligopolies produce more innovations than pure monopolies | C. Arrow      |

Which of the following is a correct match:

- a. I-A, II-B, III-C
- b. I-B, II-A, III-C
- c. I-C, II-B, III-A
- d. I-A, II-C, III-B

Options :

- 12820639171. A
- 12820639172. B
- 12820639173. C
- 12820639174. D

Question Number : 65 Question Id : 1282069913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Match the following:

- |                              |                      |
|------------------------------|----------------------|
| I. Appropriate Technology    | A. Sanjaya Lall      |
| II. Technological Capability | B. Frances Stewart   |
| III. Division of Labour      | C. Karl Marx         |
| IV. Radical Innovation       | D. Joseph Schumpeter |

Which of the following is a correct match:

- a. I-A, II-B, III-C, IV-D
- b. I-B, II-A, III-C, IV-D
- c. I-B, II-A, III-D, IV-C
- d. I-A, II-C, III-B, IV-D

Options :

- 12820639175. A
- 12820639176. B
- 12820639177. C
- 12820639178. D

Question Number : 66 Question Id : 1282069914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

The term e-waste refers to

- I. The electronic items that have been discarded
- II. The electronic items that have become obsolete.
- III. The electrical items that have become non functional
- IV. Computer and mobile phones that have become non functional

Please mark the correct choice.

- a. Only II is true
- b. Only I, III and IV is true
- c. All are true
- d. None is true.

**Options :**

12820639179. A

12820639180. B

12820639181. C

12820639182. D

**Question Number : 67 Question Id : 1282069915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 2 Wrong Marks : 0**

Which is/ are correctly matched:

- I. Scientific Policy Resolution-----1983
- II. Technology Policy Statement-----1958
- III. Science and Technology Policy-----2003
- IV. Science, Technology and Innovation Policy--- 2013

Which is the correct choice?

- a. Only I
- b. Only II, III and IV
- c. Only III and IV
- d. None of the above

**Options :**

12820639183. A

12820639184. B

12820639185. C

12820639186. D

**Question Number : 68 Question Id : 1282069916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 2 Wrong Marks : 0**

What is/are true about Gender and Science?

- I. Women are underrepresented in mathematics, science and technology
  - II. Women are comparatively better represented in biological sciences than physical sciences
  - III. Men and women are equally represented in all sciences
  - IV. Gender and science is not an issue
- a. Only I is true
  - b. Only I and IV are true
  - c. Only II and IV are true
  - d. Only I and II are true

Options :

12820639187. A

12820639188. B

12820639189. C

12820639190. D

Question Number : 69 Question Id : 1282069917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

As per the supreme Court Judgment

- I. Aadhar is mandatory for availing all services
- II. Aadhar is mandatory only to access welfare services
- III. Aadhar is not mandatory for bank account and mobile phone connection
- IV. Aadhar is mandatory for PAN Card

Mark the correct choice.

- a. Only I is true
- b. Only II is true
- c. Only II, III and IV are true
- d. Only I and IV are true

Options :

12820639191. A

12820639192. B

12820639193. C

12820639194. D

Question Number : 70 Question Id : 1282069918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

Scientific controversy refers to followings

- I. Scientists disagreeing about a central hypothesis or theory
- II. Scientists disagreeing about a less central aspects of a theory
- III. Scientists disagreeing over the appropriateness of a method used for scientific research.
- IV. Scientists disagreeing over the application of Scientific knowledge

Which is the correct choice?

- a. Only II is true
- b. Only I and II are true
- c. Only II and IV are true
- d. All are true

**Options :**

12820639195. A

12820639196. B

12820639197. C

12820639198. D