

4. Which HRD Ministry-appointed committee is drafting new National Education Policy (NEP)?
- (1) Ram Shanker Kureel committee
 - (2) K Kasturirangan committee
 - (3) V G S Rathore committee
 - (4) KJ Alphonse committee
5. With reference to Paris agreement on climate change, consider the following statements :
- I. It was signed by 195 nations in Dec 2015 at Paris
 - II. The main aim is to keep a global temperature rise this century well below 3 degrees Celsius
 - III. It further aims to drive efforts to limit the temperature increase even further to 1.5 degrees Celsius above pre-industrial levels
- Which of the above statements are correct ?
- (1) I and II
 - (2) II and III
 - (3) I, II and III
 - (4) I and III
6. Which of the following statements are correct?
- a. Parliament cannot alter the name and territory of J&K without the consent of the State legislature
 - b. The Union shall have the power to suspend the State Constitution on the ground of failure to comply with the directions given by the Union.
 - c. No proclamation of Emergency can be made by the President under Article 352 on the ground of "internal disturbance" in J&K without the concurrence of J&K Government
- Which of the above statements are correct ?
- (1) (a) and (b)
 - (2) (b) and (c)
 - (3) (a) and (c)
 - (4) (a), (b), (c)
7. **Assertion (A):** Global warming is the increase in Earth's near-surface air and ocean temperatures.
- Reason (R):** The greenhouse effect is when water and carbon dioxide absorb outgoing infrared radiation, increasing the planet's temperature

Choose the correct code:

- (1) Both (A) and (R) are correct (2) Both (A) and (R) are incorrect,
(3) (A) is true and (R) is true (4) (A) is false and (R) is true

8. Which of these pairs are correctly matched ?

- a. The Vienna Convention : Protection of Ozone Layer
b. Montreal Protocol : Substances that Deplete the Ozone Layer
c. The Minamata Convention : Lead

- (1) a only
(2) a and b only
(3) c only

9. Representation of the People (Amendment and Validation) Bill, 2013, brought two key changes. These changes were :

- Even if a person is prohibited from voting due to being in police custody or in jail, he can file nomination for an election.
- Definition of “disqualified” in the Act has been amended. disqualification has to be due to conviction for certain specified offences and can be on no other ground.
- Anyone in prison or on the lawful custody of the police (other than preventive detention) is not entitled to vote.

Select the correct answer using the codes given below.

- (1) I and ii only (2) I and iii only
(3) ii and iii only (4) I, ii, iii

10. Match List – I and List – II and identify the correct code:

- a. World Health Day i. 16th September
b. World Population Day ii. 1st December
c. World Ozone Day iii. 11th July
d. World AIDS Day iv. 7th April

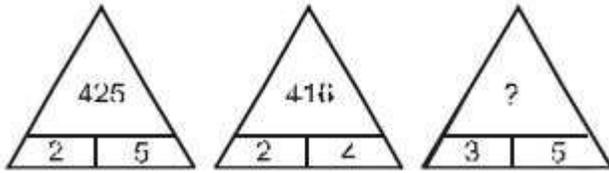
Codes:

- | | a | b | c | d |
|-----|----------|----------|----------|----------|
| (1) | i | ii | iii | iv |
| (2) | iv | iii | i | ii |
| (3) | ii | iii | iv | i |

24. In which year did both the companies have no change in production from the previous year?
- (1) 2000 (2) 2002
(3) 2003 (4) 2004
25. Which of the following collection techniques were used as the primary research methods for this study?
- (1) Qualitative (2) Quantitative
(3) Both (1) and (2) (4) None
26. Which of the following problems was India faced with after Independence ?
- (1) Military attack from a country across the border.
(2) Lack of coordination between the Central and State Governments.
(3) Improper coordination of various Government policies
(4) Increasing the production from a very low level
27. Which of the following issues was not appropriately realized by the Central Government.
- (1) Ethnic diversity of the people
(2) A national language for the country
(3) Implementation of the formulated policies
(4) Centre -State relations
28. Why was central economic planning found to be difficult?
- (1) Multiplicity of States and Union Territories
(2) Lack of coordination in different Government departments
(3) Autonomy given to the States in certain matters
(4) Lack of will in implementing land reforms
29. Why was the linguistic reorganization of the State accepted?
- (1) The States were not cooperating with the Central Government
(2) Non- Congress Governments in the States demanded such a reorganization of the States
(3) No common national language emerged
(4) Strong pressure from the States was exerted on the Central Government to create such States

- (3) The leading party in Lok Sabha and Rajya Sabha combined
(4) None of the above
36. The study of interrelations between Organism and their environment is called ____
(1) Biosphere (2) Ecology
(3) Synecology (4) Autecology
37. The term ICT is now also used to refer to the convergence of
(1) Audio visual (2) Telephone network
(3) Both (1) and (2) (4) None
38. Fossil Fuels include
(1) Oil (2) Natural Gas
(3) Coal (4) All of the above
39. Noise in excess of _____ is called noise pollution
(1) 40-65 db (2) 60-70 db
(3) 80-100 db (4) None of the above
40. Effectiveness of teaching depends on ____
(1) Handwriting of Teacher (2) Speaking ability of Teacher
(3) Qualification of the Teacher (4) Subject Understanding of the Teacher
41. The participation of students will be maximum if ____ method is used for teaching.
(1) Text Books (2) Discussion Method
(3) Conference Method (4) Lectures
42. In following questions, number series is given. One of the numbers in each series is wrong. After searching wrong number find the correct number in its place.
510, 254, 126, 64, 30, 14, 6
(1) 252 (2) 62
(3) 130 (4) 9
43. Which reasoning determines whether the truth of a conclusion can be determined for that rule, based solely on the truth of the premises?
(1) Deductive (2) Inductive
(3) Abductive (4) All

44. Insert the missing number or letter from among the given alternatives.



- (1) 140 (2) 280
(3) 875 (4) 925

45. In the following question assuming the given statements to be true, find out which of the two assumptions I and II given below them is/are definitely true give answer as.

- (1) Only assumption I is implicit
(2) Only assumption II is implicit
(3) Either I or II is implicit
(4) Neither I nor II is implicit
(E) Both I and II are implicit

Statement: The State government has decided to appoint four thousand primary school teachers during the next financial year.

Assumptions:

- I. There are enough schools in the state to accommodate four thousand additional primary school teachers.
II. The eligible candidates may not be interested to apply as the government may not finally appoint such a large number of primary school teachers.

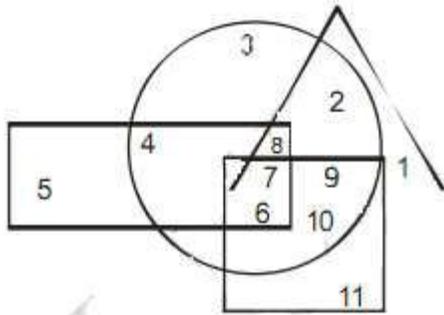
46. What is the latest write-once optical storage media?

- (1) Digital paper (2) Magneto-optical disk
(3) WORM disk (4) CD- ROM disk

47. Which of the following identifies a specific web page and its computer on the Web?

- (1) Web site (2) Web site address
(3) URL (4) Domain Name

Direction (48-49) In the following figure, rectangle, square, circle and triangle represents the regions of wheat gram, maize and rice cultivation respectively. On the basis of the figure, answer the following questions.



48. Which of the area is cultivated for wheat and maize only?
- (1) 8 (2) 6
(3) 5 (4) 4
49. Which of the area is cultivated for maize only?
- (1) 10 (2) 2
(3) 3 (4) 4
50. Pointing to a photograph. Bajpai said, " He is the son of the only daughter of the father of my brother." How Bajpai is related to the man in the photograph?
- (1) Nephew (2) Brother
(3) Father (4) Maternal Uncle

ANSWER KEY

PAPER-I

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Answer	4	1	4	2	4	3	1	2	1	2	1	4	3	4	1	1	4	2	3	3
Question	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Answer	4	1	2	4	1	4	1	3	4	2	4	3	1	1	1	2	3	4	3	4
Question	41	42	43	44	45	46	47	48	49	50										
Answer	2	2	1	4	1	4	4	4	3	4										

HINTS AND SOLUTIONS

1.(4) Eklavya schools will be established for scheduled caste (SC) and schedule tribe students by 2022 on the lines of Navodaya schools.

They will be model residential schools set up in each Block. It will in areas with more than 50% tribal areas and 20,000 tribal people.

These schools will be part of Navodaya Vidyalayas. It will provide training in sports and skill development.

It has special facilities for preserving local art and culture.

2.(1) Revitalising Infrastructure and Systems in Education (RISE) Scheme :

RISE scheme aims to lend low-cost funds to government higher educational institutions. It will be launched with a total investment of Rs. 1 lakh crore in the next four years. It will be financed via restructured higher education financing agency (HEFA), a non-banking financial company.

3.(4) The World Sustainable Development Summit–2018 was held in New Delhi on February 16.

The summit will address a wide variety of issues, including combating land degradation and air pollution, effective waste management and create financial mechanisms to enable effective climate change mitigation.

The theme of the 2018 Summit is–Partnerships for a Resilient Planet, which seeks to create action frameworks to resolve some of the most urgent challenges facing developing economies in the backdrop of climate change.

It seeks to bring together on a common platform, global leaders and thinkers in the fields of sustainable development, energy and environment sectors.

4.(2) The 9-member committee, headed by former ISRO chief K Kasturirangan, was constituted by the Union HRD Ministry to draft new National Education Policy (NEP) on June 2017. The committee will submit its report by March 31, 2018. The existing NEP was framed in 1986 and revised in 1992.

5.(4) An historic agreement to combat climate change and unleash actions and investment towards a low carbon, resilient and sustainable future was agreed by 195 nations in Paris in Dec 2015.

The Paris Agreement for the first time brings all nations into a common cause based on their historic, current and future responsibilities.

The universal agreement's main aim is to keep a global temperature rise this century well below 2 degrees Celsius and to drive efforts to limit the temperature increase even further to 1.5 degrees Celsius above pre-industrial levels.

The 1.5 degree Celsius limit is a significantly safer defense line against the worst impacts of a changing climate.

6.(3) Under Part XXI of the Constitution of India, which deals with "Temporary, Transitional and Special provisions", the State of Jammu and Kashmir has been accorded special status under Article 370. Even though included in 1st Schedule as 15th state, all the provisions of the Constitution which are applicable to other states are not applicable to J&K.

Special Features- J&K is the only state in India which has a Constitution of its own. The Constitution of J&K was enacted by a separate Constituent Assembly set up by the State and it came into force on 26th January 1957.

7.(1) Global warming is the increase in Earth's near-surface air and ocean temperatures.

The greenhouse effect is when water and carbon dioxide absorb outgoing infrared radiation, increasing the planet's temperature. Greenhouse gases contribute to global warming. What is determined to be a greenhouse gas is any heat-trapping gas present in the Earth's atmosphere.

The two most common greenhouse gases are water vapor and carbon. These gases help absorb infrared radiation and regulate the Earth's climate. However, the increase in industrial production has increased the amount of greenhouse gases present in the atmosphere.

The increase in carbon dioxide emissions has made it difficult for heat to escape the atmosphere which in turn contributes to the warming effect.

8.(2) The Vienna Convention for the Protection of the Ozone Layer is a Multilateral Environmental Agreement. It was agreed upon at the Vienna Conference of 1985 and entered into force in 1988.

It acts as a framework for the international efforts to protect the ozone layer.

The Montreal Protocol on Substances that Deplete the Ozone Layer (a protocol to the Vienna Convention for the Protection of the Ozone Layer) is an international treaty designed to protect the ozone layer by phasing out the production of numerous substances that are responsible for ozone depletion.

The Minamata Convention on Mercury is an international treaty designed to protect human health and the environment from anthropogenic emissions and releases of mercury and mercury compounds.

The Convention was signed by delegates representing close to 140 countries on 19 January 2013 in Geneva and adopted later that year on 10 October 2013 on a Diplomatic Conference held in Kumamoto, Japan. The Convention is named after the Japanese city Minamata.

9.(1) In July 2013, Supreme Court had ruled that a person, who is in jail or in police custody, cannot contest elections to legislative bodies.

Representation of the People (Amendment and Validation) Bill, 2013 however, brought two key changes:

Firstly, even if a person is prohibited from voting due to being in police custody or in jail, as long as his name is entered on the electoral roll he shall not cease to be an elector. This implies that he can file nomination for an election. Secondly, definition of “disqualified” in the Act has been amended.

Prior to this act, the definition of disqualified means disqualified for either being chosen as or being a MP or MLA.

Secondly, definition of “disqualified” in the Act has been amended.

The amendment adds a ground to the definition that the disqualification has to be due to conviction for certain specified offences and can be on no other ground.

Conviction for only these certain offences would result in the person’s name being

removed from the electoral roll and he would cease to be an elector.

10.(2)

11.(1) Water Borne diseases are largely caused by micro-organisms present in human or animal waste, which find their way into human body.

These diseases are infectious, which means that they can spread from one person to another.

So high standards of hygiene and sanitation are needed to stop the disease from spreading.

Waterborne diseases include:

- (i) Typhoid fever
- (ii) Giardia
- (iii) Dysentery
- (iv) Cholera
- (v) Diarrhoea (caused by a variety of pathogens)
- (vi) Hepatitis
- (vii) Polio
- (viii) Worms

12.(4) Research has been defined in a number of different ways.

A broad definition of research is given by Godwin Colibao: “In the broadest sense of the word, the definition of research includes any gathering of data, information, and facts for the advancement of knowledge.”

Another definition of research is given by John W. Creswell, who states that “research is a process of steps used to collect and analyze information to increase our understanding of a topic or issue”.

It consists of three steps: pose a question, collect data to answer the question, and present an answer to the question.

The Merriam-Webster Online Dictionary defines research in more detail as “a studious inquiry or examination; especially investigation or experimentation aimed at the discovery and interpretation of facts, revision of accepted theories or laws in the light of new facts, or practical application of such new or revised theories or laws.

13.(3) In descriptive survey method- we've to use questionnaires (Because it's 'survey).

Descriptive research is all about describing people who take part in the study.

There are three ways a researcher can go about doing a descriptive research project, and they are: Observational, Case study and Survey, defined as a brief interview or discussion with an individual about a specific topic

Historical method- we have to use primary and secondary sources.

Historical method comprises the techniques and guidelines by which historians use primary sources and other evidence, including the evidence of archaeology, to research and then to write histories in the form of accounts of the past.

In **experimental method-** we can collect data in a way that permit standardized tests. The experimental method is a systematic and scientific approach to research in which the researcher manipulates one or more variables, and controls and measures any change in other variables.

An ex post facto research design is a method in which groups with qualities that already exist are compared on some dependent variable.

Also known as "after the fact" research, an ex post facto design is considered quasi-experimental because the subjects are not randomly assigned - they are grouped based on a particular characteristic or trait.

14.(4) According to Burton, Teaching is the stimulation, guidance, direction and encouragement of learning.

Good teaching requires some basics that a teacher should follow to achieve the main goal of teaching.

Good teaching is as much about passion as it is about reason. It's about not only motivating students to learn, but teaching them how to learn, and doing so in a manner that is relevant, meaningful, and memorable.

It's about caring for your craft, having a passion for it, and conveying that passion to everyone, most importantly to your students. Good teaching is also about bridging the gap between theory and practice. It is about listening, questioning, being responsive, and remembering that each student and class is different. It is about caring, nurturing, and developing minds and talents.

Diagnosis, Remedy, Direction and Feedback are required for good teaching.

15.(1) The National Institution for Transforming India, also called NITI Aayog, was formed via a resolution of the Union Cabinet on January 1, 2015.

NITI Aayog is the premier policy 'Think Tank' of the Government of India, providing both directional and policy inputs. While designing strategic and long term policies and programmes for the Government of India, NITI Aayog also provides relevant technical advice to the Centre and States.

The Government of India, in keeping with its reform agenda, constituted the NITI Aayog to replace the Planning Commission instituted in 1950.

An important evolutionary change from the past, NITI Aayog acts as the quintessential platform of the Government of India to bring States to act together in national interest, and thereby fosters Cooperative Federalism.

The Prime minister is its Chairperson.

16.(1) Horizontal communication is the communication where information or messages flows among the similar or same level statuses of people in the organizational structure.

Horizontal communication is the communication that flows laterally within the organization, involves persons at the same level of the organization. Horizontal communication normally involves coordinating information and allows people with the same or similar rank in an organization to cooperate or collaborate. Thus in terms of statuses horizontal method is used.

17.(4) Spam is an irrelevant or unsolicited messages sent over the Internet, typically to large numbers of users, for the purposes of advertising, phishing, spreading malware, etc.

Spam is flooding the Internet with many copies of the same message, in an attempt to force the message on people who would not otherwise choose to receive it. Most spam is commercial advertising, often for dubious products, get-rich-quick schemes, or quasi-legal services.

18.(2) Propositions are contradictory when the truth of one implies the falsity of the other, and conversely.

if 'All thieves are poor' is false, then the proposition 'Some thieves are not poor' must be true.

19.(3) Non verbal communication is communication of feelings, emotions, attitudes, and thoughts through body movements / gestures / eye contact, etc.

$$\begin{aligned} \text{20.(3) \% increase} &= \frac{0.25 \text{ crore}}{1 \text{ crore}} \times 100 \\ &= 25\% \end{aligned}$$

21.(4) For company A

$$\begin{aligned} &1 + 1.25 + 1.5 + 1.75 + 1.75 + 1.75 + 2 \\ &= 11 \text{ crore} \end{aligned}$$

$$\begin{aligned} \text{22.(1) } (2.5 - 1) \text{ crores} &= 1.5 \times 100 \text{ 00 000} \\ &= 150 \text{ 00 000} \end{aligned}$$

23.(2) Total production of B

$$\begin{aligned} &= 2.5 + 2.5 + 3 + 2.75 + 2.25 + 2.25 + 2.5 \\ &= 17.75 \end{aligned}$$

$$\text{Average production} = \frac{17.75}{7} = 2.55$$

24.(4) In year 2004.

25.(1) Qualitative data collection techniques were used as the primary research methods for this study. Participant and direct observation plus note taking were the most important techniques used.

26.(4) Production was at very low level.

27.(1) Ethnic diversity of the people was not appropriately realized by the Central Government.

28.(3) Central economic planning found to be difficult because autonomy was given to the States in certain matters

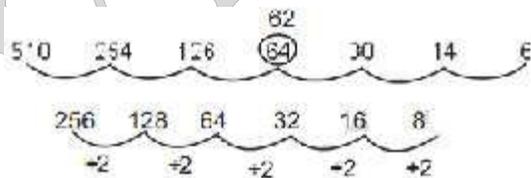
29.(4) Because that time no common language emerged.

30.(2) "The Indianisation of the Indian Civil Service", can be cited as an exercise in democratic practice in India before Independence

31.(4) The information to be collected in survey method are related to present position, aims of the research & the attainment of aim of research. Exposure units must be defined, must be considered in developing DQOs for project, or results may not be accepted.

Sufficient samples are required 8-10 samples when contaminant concentrations vary within a narrow range 10-15 sample when concentrations are less predictable
Calculate 90th Upper Confidence Limit (UCL)

- 32.(3)** One of the essential characteristics of research is usability.
- 33.(1)** A parliamentary system is a system of democratic government in which the ministers of the Executive Branch derive their legitimacy from and are accountable to a Legislature or parliament; the Executive and Legislative branches are interconnected. It is a political system in which the supreme power lies in a body of citizens who can elect people to represent them.
- 34.(1)** IVRI is situated in Izat Nagar.
IAT is situated in Pune
IISc is situated in Bangalore
NIEPA is situated in Delhi.
- 35.(1)** The prime minister of India is appointed from the leading Party in Lok Sabha.
- 36.(2)** The study of interrelations between Organism and their environment is called ecology.
- 37.(3)** The term ICT is now also used to refer to the convergence of audio-visual and telephone networks with computer networks through a single cabling or link system.
- 38.(4)** Fossil fuels are fuels made by natural processes such as anaerobic decomposition of buried dead organisms. Ex. Oil, Natural gas, coal etc.
- 39.(3)** Noise in excess of 80-100DB is called noise pollution.
- 40.(4)** Effectiveness of teaching depends on Subject Understanding of the Teacher
- 41. (2)** The participation of students will be maximum if Discussion Method is used for teaching.
- 42.(2)**



“30, 64 is wrong & must be replaced by 62.

- 43.(1)** Deductive reasoning determines whether the truth of a conclusion can be determined for that rule, based solely on the truth of the premises.
- 44.(4)** $(2)^2 = 4$, $(5)^2 = 25 \Rightarrow 425$
 $(2)^2 = 4$, $(4)^2 = 16 \Rightarrow 416$
 $(3)^2 = 9$, $(5)^2 = 25 \Rightarrow 925$.
- 45.(1)** Such decisions as given in the statement are taken only after taking the existing vacancies into consideration. So, I implicit while II does not implicit.
- 46.(4)** CD-ROM disk is the latest write-once optical storage media
- 47.(4)** Domain Name identifies a specific web page and its computer on the Web.
- 48.(4)** The required region is the one which is common only to the rectangle and circle and is not a part of either the triangle or square
- 49.(3)** The required region is the one which lies inside the circle but outside the rectangle, square and triangle,
- 50.(4)** The man in the photo is the son of the sister of Bajpai. Hence, Bajpai is the maternal uncle of the man in the photograph.