

1. A research paper is a brief report of research work based on
 - (A) Primary Data only
 - (B) Secondary Data only
 - (C) Both Primary and Secondary Data
 - (D) None of the above

2. Newton gave three basic laws of motion. This research is categorized as
 - (A) Descriptive Research
 - (B) Sample Survey
 - (C) Fundamental Research
 - (D) Applied Research

3. A group of experts in a specific area of knowledge assembled at a place and prepared a syllabus for a new course. The process may be termed as
 - (A) Seminar
 - (B) Workshop
 - (C) Conference
 - (D) Symposium

4. In the process of conducting research ‘Formulation of Hypothesis’ is followed by
 - (A) Statement of Objectives
 - (B) Analysis of Data
 - (C) Selection of Research Tools
 - (D) Collection of Data

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Read the following passage carefully and answer questions 5 to 10 :

All historians are interpreters of text if they be private letters, Government records or parish birthlists or whatever. For most kinds of historians, these are only the necessary means to understanding something other than the texts themselves, such as a political action or a historical trend, whereas for the intellectual historian, a full understanding of his chosen texts is itself the aim of his enquiries. Of course, the intellectual history is particularly prone to draw on the focus of other disciplines that are habitually interpreting texts for purposes of their own, probing the reasoning that ostensibly connects premises and conclusions. Furthermore, the boundaries with adjacent subdisciplines are shifting and indistinct : the history of art and the history of science both claim a certain autonomy, partly just because they require specialised technical skills, but both can also be seen as part of a wider intellectual history, as is evident when one considers, for example, the common stock of knowledge about cosmological beliefs or moral ideals of a period.

Like all historians, the intellectual historian is a consumer rather than a producer of ‘methods’. His distinctiveness lies in which aspect of the past he is trying to illuminate, not in having exclusive possession of either a corpus of evidence or a body of techniques. That being said, it does seem that the label ‘intellectual history’ attracts a disproportionate share of misunderstanding.

It is alleged that intellectual history is the history of something that never really mattered. The long dominance of the historical profession by political historians bred a kind of philistinism, an unspoken belief that power and its exercise was ‘what mattered’. The prejudice was reinforced by the assertion that political action was never really the outcome of principles or ideas that were ‘more flapdoodle’. The legacy of this precept is still discernible in the tendency to require ideas to have ‘licensed’ the political class before they can be deemed worthy of intellectual attention, as if there were some reasons why the history of art or science, of philosophy or literature, were somehow of interest and significance than the history of Parties or Parliaments. Perhaps in recent years the mirror-image of this philistinism has been more common in the claim that ideas of any one is of systematic expression or sophistication do not matter, as if they were only held by a minority.

Answer the following questions :

5. An intellectual historian aims to fully understand
 - (A) the chosen texts of his own
 - (B) political actions
 - (C) historical trends
 - (D) his enquiries

6. Intellectual historians do not claim exclusive possession of
 - (A) conclusions
 - (B) any corpus of evidence
 - (C) distinctiveness
 - (D) habitual interpretation

7. The misconceptions about intellectual history stem from
 - (A) a body of techniques
 - (B) the common stock of knowledge
 - (C) the dominance of political historians
 - (D) cosmological beliefs

8. What is philistinism ?
 - (A) Reinforcement of prejudice
 - (B) Fabrication of reasons
 - (C) The hold of land-owning classes
 - (D) Belief that power and its exercise matter

9. Knowledge of cosmological beliefs or moral ideas of a period can be drawn as part of
 - (A) literary criticism
 - (B) history of science
 - (C) history of philosophy
 - (D) intellectual history

10. The claim that ideas of any one is of systematic expression do not matter, as if they were held by a minority, is
 - (A) to have a licensed political class
 - (B) a political action
 - (C) a philosophy of literature
 - (D) the mirror-image of philistinism

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11. Public communication tends to occur within a more
- (A) complex structure
 - (B) political structure
 - (C) convenient structure
 - (D) formal structure
12. Transforming thoughts, ideas and messages into verbal and non-verbal signs is referred to as
- (A) channelisation
 - (B) mediation
 - (C) encoding
 - (D) decoding
13. Effective communication needs a supportive
- (A) economic environment
 - (B) political environment
 - (C) social environment
 - (D) multi-cultural environment
14. A major barrier in the transmission of cognitive data in the process of communication is an individual's
- (A) personality
 - (B) expectation
 - (C) social status
 - (D) coding ability
15. When communicated, institutionalised stereotypes become
- (A) myths
 - (B) reasons
 - (C) experiences
 - (D) convictions
16. In mass communication, selective perception is dependent on the receiver's
- (A) competence
 - (B) pre-disposition
 - (C) receptivity
 - (D) ethnicity
17. Determine the relationship between the pair of words NUMERATOR : DENOMINATOR and then select the pair of words from the following which have a similar relationship :
- (A) fraction : decimal
 - (B) divisor : quotient
 - (C) top : bottom
 - (D) dividend : divisor
18. Find the wrong number in the sequence
125, 127, 130, 135, 142, 153, 165
- (A) 130
 - (B) 142
 - (C) 153
 - (D) 165
19. If HOBBY is coded as IOBY and LOBBY is coded as MOBY; then BOBBY is coded as
- (A) BOBY
 - (B) COBY
 - (C) DOBY
 - (D) OOBY
20. The letters in the first set have certain relationship. On the basis of this relationship, make the right choice for the second set :
K/T : 11/20 :: J/R : ?
- (A) 10/8
 - (B) 10/18
 - (C) 11/19
 - (D) 10/19

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21. If $A = 5$, $B = 6$, $C = 7$, $D = 8$ and so on, what do the following numbers stand for ?
17, 19, 20, 9, 8
(A) Plane
(B) Moped
(C) Motor
(D) Tonga
22. The price of oil is increased by 25%. If the expenditure is not allowed to increase, the ratio between the reduction in consumption and the original consumption is
(A) 1 : 3 (B) 1 : 4
(C) 1 : 5 (D) 1 : 6
23. How many 8's are there in the following sequence which are preceded by 5 but not immediately followed by 3 ?
5 8 3 7 5 8 6 3 8 5 4 5 8 4 7 6
5 5 8 3 5 8 7 5 8 2 8 5
(A) 4 (B) 5
(C) 7 (D) 3
24. If a rectangle were called a circle, a circle a point, a point a triangle and a triangle a square, the shape of a wheel is
(A) Rectangle
(B) Circle
(C) Point
(D) Triangle
25. Which one of the following methods is best suited for mapping the distribution of different crops as provided in the standard classification of crops in India ?
(A) Pie diagram
(B) Chorochromatic technique
(C) Isopleth technique
(D) Dot method

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26. Which one of the following does not come under the methods of data classification ?
(A) Qualitative
(B) Normative
(C) Spatial
(D) Quantitative
27. Which one of the following is not a source of data ?
(A) Administrative records
(B) Population census
(C) GIS
(D) Sample survey
28. If the statement 'some men are cruel' is false, which of the following statements/statement are/is true ?
(i) All men are cruel.
(ii) No men are cruel.
(iii) Some men are not cruel.
(A) (i) and (iii)
(B) (i) and (ii)
(C) (ii) and (iii)
(D) (iii) only
29. The octal number system consists of the following symbols :
(A) 0 – 7
(B) 0 – 9
(C) 0 – 9, A – F
(D) None of the above
30. The binary equivalent of $(-19)_{10}$ in signed magnitude system is
(A) 11101100
(B) 11101101
(C) 10010011
(D) None of these

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31. DNS in internet technology stands for
- (A) Dynamic Name System
 - (B) Domain Name System
 - (C) Distributed Name System
 - (D) None of these
32. HTML stands for
- (A) Hyper Text Markup Language
 - (B) Hyper Text Manipulation Language
 - (C) Hyper Text Managing Links
 - (D) Hyper Text Manipulating Links
33. Which of the following is type of LAN ?
- (A) Ethernet
 - (B) Token Ring
 - (C) FDDI
 - (D) All of the above
34. Which of the following statements is true ?
- (A) Smart cards do not require an operating system.
 - (B) Smart cards and PCs use some operating system.
 - (C) COS is smart card operating system.
 - (D) The communication between reader and card is in full duplex mode.
35. The Ganga Action Plan was initiated during the year
- (A) 1986
 - (B) 1988
 - (C) 1990
 - (D) 1992
36. Identify the correct sequence of energy sources in order of their share in the power sector in India :
- (A) Thermal > nuclear > hydro > wind
 - (B) Thermal > hydro > nuclear > wind
 - (C) Hydro > nuclear > thermal > wind
 - (D) Nuclear > hydro > wind > thermal
37. Chromium as a contaminant in drinking water in excess of permissible levels, causes
- (A) Skeletal damage
 - (B) Gastrointestinal problem
 - (C) Dermal and nervous problems
 - (D) Liver/Kidney problems
38. The main precursors of winter smog are
- (A) N_2O and hydrocarbons
 - (B) NO_x and hydrocarbons
 - (C) SO_2 and hydrocarbons
 - (D) SO_2 and ozone
39. Flash floods are caused when
- (A) the atmosphere is convectively unstable and there is considerable vertical wind shear
 - (B) the atmosphere is stable
 - (C) the atmosphere is convectively unstable with no vertical windshear
 - (D) winds are catabatic

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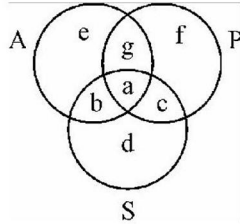
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40. In mega cities of India, the dominant source of air pollution is
- (A) transport sector
 - (B) thermal power
 - (C) municipal waste
 - (D) commercial sector
41. The first Open University in India was set up in the State of
- (A) Andhra Pradesh
 - (B) Delhi
 - (C) Himachal Pradesh
 - (D) Tamil Nadu
42. Most of the Universities in India are funded by
- (A) the Central Government
 - (B) the State Governments
 - (C) the University Grants Commission
 - (D) Private bodies and Individuals
43. Which of the following organizations looks after the quality of Technical and Management education in India ?
- (A) NCTE
 - (B) MCI
 - (C) AICTE
 - (D) CSIR
44. Consider the following statements :
Identify the statement which implies natural justice.
- (A) The principle of natural justice is followed by the Courts.
 - (B) Justice delayed is justice denied.
 - (C) Natural justice is an inalienable right of a citizen
 - (D) A reasonable opportunity of being heard must be given.
45. The President of India is
- (A) the Head of State
 - (B) the Head of Government
 - (C) both Head of the State and the Head of the Government
 - (D) None of the above
46. Who among the following holds office during the pleasure of the President of India ?
- (A) Chief Election Commissioner
 - (B) Comptroller and Auditor General of India
 - (C) Chairman of the Union Public Service Commission
 - (D) Governor of a State

Not for Visually Handicapped Candidates

Questions 47 to 49 are based upon the following diagram in which there are three interlocking circles A, P and S where A stands for Artists, circle P for Professors and circle S for Sportspersons.

Different regions in the figure are lettered from a to f :



47. The region which represents artists who are neither sportsmen nor professors.
 (A) d
 (B) e
 (C) b
 (D) g
48. The region which represents professors, who are both artists and sportspersons.
 (A) a
 (B) c
 (C) d
 (D) g
49. The region which represents professors, who are also sportspersons, but not artists.
 (A) e
 (B) f
 (C) c
 (D) g

Questions 50 to 52 are based on the following data :

Measurements of some variable X were made at an interval of 1 minute from 10 A.M. to 10:20 A.M. The data, thus, obtained is as follows :

X : 60, 62, 65, 64, 63, 61, 66, 65, 70, 68
 63, 62, 64, 69, 65, 64, 66, 67, 66, 64

50. The value of X, which is exceeded 10% of the time in the duration of measurement, is
 (A) 69
 (B) 68
 (C) 67
 (D) 66
51. The value of X, which is exceeded 90% of the time in the duration of measurement, is
 (A) 63
 (B) 62
 (C) 61
 (D) 60
52. The value of X, which is exceeded 50% of the time in the duration of measurement, is
 (A) 66
 (B) 65
 (C) 64
 (D) 63