



3. Which country to host the World Sustainable Development Summit – 2018 ?  
(1) South Africa (2) Nepal  
(3) Brazil (4) India
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
(4)	iii	iv	ii	i

11. **Assertion (A):** Water Borne diseases are largely caused by micro-organisms present in human or animal waste

**Reason (R):** Typhoid fever is a Water Borne diseases.

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

12. Which of the following statements regarding the meaning of research are correct

- a. Research refers to a series of systematic activity or activities undertaken to find out the solution of a problem
- b. It is a systematic, logical and an unbiased process wherein verification of hypothesis data analysis, interpretation and formation of principles can be done
- c. It is an intellectual enquiry or quest towards truth
- d. It leads to enhancement of knowledge

- (1) (a), (b) and (c)
- (2) (b), (c) and (d)
- (3) (a), (c) and (d)
- (4) (a), (b), (c) and (d)

13. Below are given two set – research methods (Set-I) and data collection tools (Set-II). Match the two sets and indicate your answer by selecting the correct code:

- |                             |                                   |
|-----------------------------|-----------------------------------|
| A Experimental method       | i Using primary secondary sources |
| B Ex post-facto method      | ii Questionnaire                  |
| C Descriptive survey method | iii Standardized tests            |
| D Historical method         | iv Typical characteristics tests  |

**Codes:**

1. A B C D

2. ii i iii iv

3. iii iv ii i

4. ii iii i iv

5. ii iv iii i

14. Consider the following statements :

a. Teaching is the stimulation, guidance, direction and encouragement of learning

b. Good teaching is as much about passion as it is about reason

c. Good teaching is also about bridging the gap between theory and practice

Which of the above statements are correct ?

(1) a and b

(2) b and c

(3) a and c

(4) a, b and c

15. Consider the following statements about NITI Aayog :

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

b. NITI Aayog fosters Cooperative Federalism

c. The President is its Chairman

Which of the statements given above is/are correct ?

(1) a and b only

(2) b and c only

(3) a and c

(4) a, b and c

16. Imagine you are working in an educational institution where people are of equal status. Which method of communication is best suited and normally employed in such a context?

(1) Horizontal communication

(2) Vertical communication

(3) Corporate communication

(4) Cross communication

17. An unsolicited e-mail message sent to many recipients at once is a

(1) Worm

(2) Virus

(3) Threat

(4) Spam

18. If the proposition 'All thieves are poor' is false, which of the following propositions can be claimed certainly to be true?

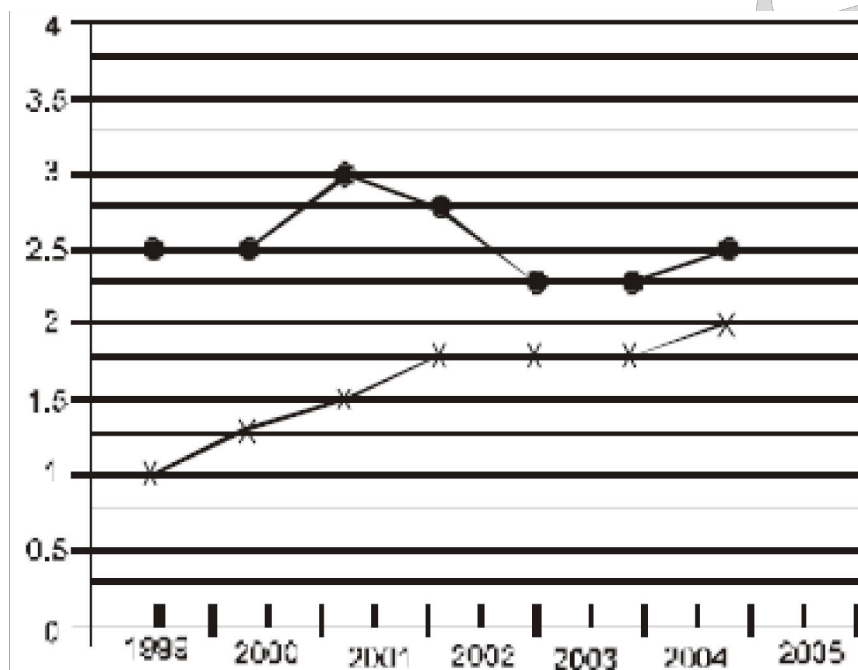
**Propositions :**

- (1) Some thieves are poor.                      (2) Some thieves are not poor.  
 (3) No thief is poor.                              (4) No poor person is a thief.

19. It is communication of feelings, emotions, attitudes, and thoughts through body movements / gestures / eye contact, etc.” which type of communication is this?

- (1) Oral communication                      (2) Written communication  
 (3) Non verbal communication              (4) None

Questions 20-24 Study the following graph carefully to answer the given questions.  
 PRODUCTION OF TWO COMPANIES A AND B ( IN CRORE UNITS) OVER THE GIVEN YEARS



20. For Company A, how much is the percent increase in production in 2000 from 1999?  
 (1) 0.25    (2) 2.5  
 (3) 25     (4) 12.5
21. How many units is the total production of Company A for the given years?  
 (1) 9 crores                                         (2) 17.75 crores  
 (3) 12.25 crores                                 (4) 11 crores
22. What is the difference in units produced by the two companies in 1999?  
 (1) 1,50,000,000                                 (2) 15,00,00,000  
 (3) 15,00,000                                      (4) 15,000

- 23.** How many units is the approximate average production of Company B for the given years?
- (1) 3 crores (2) 2.55 crores  
(3) 2.75 crores (4) 2.25 crores
- 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

30. Which, according to the passage, can be cited as an exercise in democratic practice in India before Independence?

(1) The handing over of power by the British to India

(2) The Indianisation of the Indian Civil Service

(3) A neutral role played by the Army

(4) None of the above

31. The information to be collected in survey method are related to

(1) Present Position

(2) Aims of the research

(3) The attainment of aim of research

(4) All of the above

32. One of the essential characteristics of research is

(1) Sensitivity

(2) Generalizability

(3) Usability

(4) Replicability

33. Identify the main Principle on which the Parliamentary System operates.

(1) Responsibility of Executive to Legislature

(2) Supremacy of Parliament

(3) Supremacy of Judiciary

(4) Theory of Separation of power

34. Match list I with list II and select the correct from the code given below :

**List I ( Institutions)**

1. Indian Veterinary Research Institute

2. Institute of Armament Technology

3. Indian Institute of Science

4. National Institute for Educational Pannesi and Administrators

**List II (Locations)**

i. Pune

ii. Izat Nagar

iii. Delhi

vi. Bangalore

(1) 1-ii, 2-i, 3-iv, 4-iii

(2) 1-ii, 2-iv, 3-ii, 4-iii



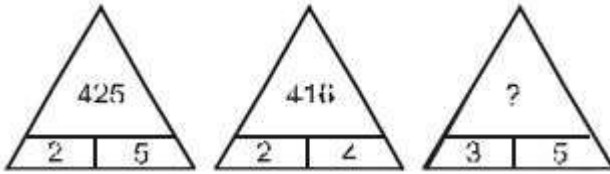
(3) 1-ii, 2-iii, 3- I, 4- iv                      (4) 1-iv, 2-iii, 3-ii, 4-i

- 35.** The prime minister of India is appointed from \_\_\_\_\_  
(1) The leading Party in Lok Sabha  
(2) The Leading Party in Rajya Sabha  
(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) Handw riting 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 deter mines 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?

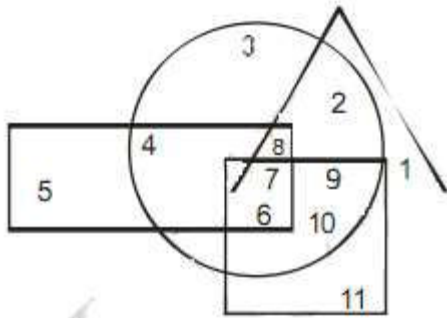
(1) Web site

(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

## PAPER-II

1. Which of the following methods are used for performance evaluation of employees in a food service establishment ?

- I. CCP                      II. BARS                      III. FIFO                      IV. MBO

**Codes :**

- (1) I and III                      (2) II and IV  
(3) III and IV                      (4) IV and V

2. The Psychological barriers in communication can be

- I. Stage-fright                      II. Day-dreaming  
III. Fidelity                      IV. Entropy

**Codes :**

- (1) I and II                      (2) II and III  
(3) III and IV                      (4) I and IV

3. Assertion (A) : The rapid darkening of the cut surface of apple and banana are examples of enzymic browning

**Reason (R) :** Addition of sodium chloride or sugar to the cut fruit prevents browning.

**Codes :**

- (1) Both (A) and (R) are correct.  
(2) Both (A) and (R) are incorrect.  
(3) (A) is correct and (R) is incorrect.  
(4) (A) is incorrect and (R) is correct.

4. **Assertion (A) :** While removing blood stain heat must be avoided.

**Reason (R) :** Heat coagulates the protein and fixes the stain on the fabric.

**Codes :**

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

5. **Assertion (A) :** The larger the sample size, the greater will be the power of the test.

**Reason (R) :** A large sample size results in smaller standard error of mean.

**Codes :**

- (1) Both (A) and (R) are correct.
- (2) Both (A) and (R) are incorrect.
- (3) (A) is correct and (R) is incorrect.
- (4) (A) is incorrect and (R) is correct.

6. Arrange in correct sequence the steps in the production of cheese :
- I. Add renin solution for curd formation.
  - II. Drain the whey from curd.
  - III. Addition of salt to cheese.
  - IV. Cutting and pilling of soft cheese.
  - V. Addition of bacteria or mould for ripening process.
  - VI. Addition of lactic acid starter to pasteurized milk and keep for 30 minutes.

**Codes :**

- (1) IV, I, IV, II, III, V
- (2) I, IV, II, IV, V, III
- (3) I, III, II, VI, IV, V
- (4) IV, I, II, IV, III, V

7. Give the correct sequence of making nylon :
- I. Formation of chips
  - II. Polymerization
  - III. Lubrication and crimping
  - IV. Spinning
  - V. Drawing

**Codes :**

- (1) II, I, IV, V, III
- (2) I, II, V, IV, III
- (3) III, II, I, V, IV
- (4) I, III, II, IV, V

8. Choose the activities involving mental effort in home making :
- I. Reaching
  - II. Reasoning
  - III. Watching
  - IV. Thinking
  - V. Decision making

**Codes :**

- (1) I, II, and III
- (2) I, III and IV
- (3) II, IV and V
- (4) II, III and IV

- I. Cost plus
- II. Compet

9. Vitamin A is essential for maintaining the following functions in the body :
- I. Normal vision
  - II. Blood clotting

III. Integrity of epithelial tissue

IV. Cognitive development

V. Immune response

**Codes :**

(1) I,II,III

(2) I, IV, V

(3) I, II, IV

(4) I, III, V

**10. Assertion (A) :** Accumulation of excessive lactic acid in the muscles results in physiological fatigue.

**Reason (R) :** It is concerned more with the psychological attitude of the worker's awareness of dislike to work.

**Codes.**

(1) (A) is correct, but (R) is incorrect.

(2) Both (A) and (R) are correct.

(3) (A) is incorrect, but (R) is correct.

(4) Both (A) and (R) are incorrect.

**11. Arrange in correct sequence the steps for testing Statistical Hypothesis :**

I. A random sample is drawn from population.

II. Specify the level of significance.

III. Value of the sample statistic is obtained.

IV. Obtained sample statistic is examined with the random sampling distribution of the statistic under consideration.

V. Formulate Null Hypothesis about a parameter of the population, along with an alternate hypothesis.

VI. Retain Null Hypothesis if Particular sample outcome is in line with the expected outcomes, otherwise reject it and retain alternate hypothesis.

**Codes :**

(1) I, II, V, III, IV, VI

(2) II, I, III, IV, V, VI

(3) V, II, I, III, IV, VI

(4) I, III, II, V, IV, VI

**12. Match the nutrients in List - I with their functions in List - II :**

**List - I**

**List - II**

I. Iron

A. Normal taste acuity

II. Calcium

B. Vision in dark

- |             |                              |
|-------------|------------------------------|
| III. Iodine | C. Haemoglobin synthesis     |
| IV. Zinc    | D. Stability of teeth enamel |
| V. Fluorine | E. Bone mineralization       |
|             | F. Brain development         |

**Codes :**

- |     | I | II | III | IV | V |
|-----|---|----|-----|----|---|
| (1) | C | A  | E   | B  | D |
| (2) | C | E  | F   | A  | D |
| (3) | C | E  | F   | D  | B |
| (4) | C | F  | D   | B  | A |

**13.** Match the terms given in List - I with their descriptions given in List - II :

**List - I**

- I. Alta Moda
- II. Be Spoke
- III. Houte Couture
- IV. Auant-garde

**List – II**

- A. Unorthodox fashion
- B. Italian culture
- C. Custom tailored
- D. Italian ready to wear
- E. High fashion

**Codes :**

- |     | I | II | III | IV |
|-----|---|----|-----|----|
| (1) | B | C  | E   | A  |
| (2) | D | B  | A   | C  |
| (3) | A | B  | C   | D  |
| (4) | C | A  | B   | D  |

**14.** Match the concept used in Entrepreneurship given in List - I with their descriptions given in List - II :

**List - I**

- I. Pricing
- II. Market Research
- III. Advertising
- IV. Selling

**List – II**

- A. Transferring goods from sellers to buyers
- B. Purchasing a Product
- C. Promoting a Product
- D. Determining the price of a product
- E. Analysis of buyer's habits

**Codes :**

- |     | I | II | III | IV |
|-----|---|----|-----|----|
| (1) | A | C  | D   | B  |
| (2) | E | D  | B   | A  |
| (3) | D | E  | C   | A  |
| (4) | B | C  | D   | A  |

15. Following foods have low glycemic index :

- I. Cornflakes                      II. Rajmeh  
III. White bread                  IV. Oats                      V. Apple

**Codes :**

- (1) I, II, V                      (2) II, IV, V                      (3) I, III, IV                      (4) II, III, V

16. The 3 R's in literacy stand for

- I. Reading                      II. Writing  
III. Arithmetic                  IV. Response

**Codes :**

- (1) I, II and III                      (2) II, III and IV  
(3) I, II and IV                      (4) I, III and IV

17. Match the items given in List-I with the items given in List - II :

**List - I**

- I. Agricultural marketing  
II. Environment friendly products  
III. Product certification  
IV. Gold jewellery

**List - II**

- A. ISI mark  
B. Hallmark  
C. Agmark  
D. Trademark  
E. Ecomark

**Codes :**

- |     | I | II | III | IV |
|-----|---|----|-----|----|
| (1) | A | B  | D   | E  |
| (2) | D | A  | C   | B  |
| (3) | E | D  | A   | B  |
| (4) | C | E  | A   | B  |



18. The main function of food is:
- (1) To provide mental satisfaction
  - (2) To satisfy our appetite
  - (3) To provide heat, strength and energy
  - (4) To protect from disease
19. Vitamin A Provides Protection against:
- (1) Blood irregularities
  - (2) Skin disease
  - (3) Blindness
  - (4) Weight decrease
20. A disease of teeth is known as:
- (1) Scurvy
  - (2) Pyorrhoea
  - (3) Rickets
  - (4) Marasmus
21. It combines with iron to produce hemoglobin in the body:
- (1) Zinc
  - (2) Sulphur
  - (3) Calcium
  - (4) Copper
22. Fresh and citric fruits are good source of:
- (1) Vitamin A
  - (2) Vitamin D
  - (3) Vitamin C
  - (4) Vitamin E
23. Which of the following has a high content of fat?
- (1) Cheese
  - (2) Butter
  - (3) Ice-cream
  - (4) Ghee
24. Egg has are the Nutrients/elements for the development of our body except
- (1) Niacin
  - (2) Protein
  - (3) Fat
  - (4) Water
25. Which of the following is not a Dry heat cooking method?
- (1) Grilling
  - (2) Frying
  - (3) Roasting
  - (4) Baking
26. Cooking of food in water for a long time on low heat is called :
- (1) Grilling
  - (2) Stewing
  - (3) Roasting
  - (4) Baking
27. Write the correct sequence of Piaget's cognitive stages?
- (i) Preoperational stage
  - (ii) Sensorimeter stage

(iii) Concrete

(iv) Formal

Codes :

(1) ii, I, iii, iv

(2) ii, iii, I, iv

(3) iii, iv, I, ii

(4) i, ii, iii, iv

28. In the adult years the gain in weight is from

(1) Accumulation of fat tissues      (2) Lack of activity

(3) Blood      (4) Hormones

29. Who among the following proposed that cognitive development passes through discrete stages and these are continuous.

(1) Piaget      (2) Froebel      (3) Montessori      (4) Erickson

30. The period from conception to the time of birth is called:

(1) Infancy      (2) Babyhood

(3) Childhood      (4) Prenatal period

31. "A development task is a task which arise at about or certain period in the life of the individual, successful achievement of which leads to his happiness and to success with later tasks" who said this definition ?

(1) Elizabeth. B Hurlock      (2) Lora. E. Berk

(3) Havighurst      (4) Froebel

32. Which of the following is not a development task of infancy and early childhood

(1) Learning to walk

(2) Learning to control elimination of body wastes

(3) Learning to talk

(4) Developing attitudes towards social groups and institutions

33. "Oral, Anal, Phallic, Latency, Genital" are the stages of psycho dynamic theory given by

(1) Jean Piaget      (2) Sigmund Freud

(3) Erick. H. Erickson      (4) Kurt Lewin

34. Children who are securely attached to caregiver react in social situation?

(1) Depressed      (2) Full of anger

(3) Persistent and flexible      (4) Denial, angry

35. Which of the following is not a women's welfare programme?  
 (1) Manila mandals  
 (2) Working women's hostel  
 (3) Foster care homes  
 (4) Education for Adult women's
36. Which of the following study is also known as "clinical study"?  
 (1) The interview (2) The case study  
 (3) Examinations (4) None of these
37. According to the views of Karl - Marx education aims at producing?  
 (1) Employed person (2) Businessman  
 (3) Full - developed (4) Literate persons
38. When did the Kothari Commission was appointed by the Government of India?  
 (1) 29 June 1966 (2) 14 July 1964  
 (3) 17 Aug 1966 (4) 18 July 1964
39. Lack of coordination brings about:  
 (1) Happiness (2) Conflicts  
 (3) Overlapping (4) Duplication
40. When did "Integrated Rural - development Programme [IRDP] started?  
 (1) April 1987 (2) May 1976  
 (3) June 1982 (4) May 1966
41. Which of these programme is not involved in 2 C.D.S. Programme?  
 (1) Applied Nutrition programme  
 (2) Special Nutrition programme  
 (3) Balwadi Nutrition Programme  
 (4) Adult education programme
42. The three types of counselling are:  
 (i) Directive  
 (ii) Non directive  
 (iii) Elective  
 (iv) Selective  
 (1) i, ii, iii, iv (2) i, ii, iii (3) i, ii (4) i, iv

43. Communication is a primary tool for effective:
- (1) Speaking
  - (2) Behaviors change
  - (3) Impact
  - (4) Appearance
44. Professional discussion rarely go beyond
- (1) Phatic stage
  - (2) Personal stage
  - (3) Intimate stage
  - (4) None
45. It is the Receiver who receives the message and tries to:
- (1) Interpret
  - (2) Perceive
  - (3) Understand
  - (4) Act
46. Village Markets, bazaars, and mela are instances of:
- (1) Formal group communication
  - (2) Informal group communication
  - (3) Focused
  - (4) Unfocussed
47. Puppets can be easily made with:
- (1) In expensive items
  - (2) Available material
  - (3) Specific shopping
  - (4) At a high cost
48. Display serves important purposes such as
- (1) Stimulating student
  - (2) Help explain things
  - (3) Publicise abstract ideas
  - (4) Give recognition to student work
49. Any idea, practice or product which an individual perceive to be new it is:
- (1) Adoption
  - (2) Different
  - (3) Innovation
  - (4) None
50. Chalk boards are recommended in teaching for
- (i) Diagram drawing
  - (ii) Economical
  - (iii) Breaks monotony
  - (iv) Absorbs light
- (1) i, ii, iii, iv
  - (2) i, ii, iii
  - (3) i, iv
  - (4) i, ii, iv



58. Sodium chloride lost in sweat and urine can be made up by \_\_\_\_\_ in the diet.
- (1) Salt (2) Ehilici  
(3) Turmeric power (4) None of the above
59. School lunch is a measure:
- (i) To provide balanced diet at low cost  
(ii) For improving the Health and Nutrition of children
- (1) Only (i) (2) Only (ii)  
(3) Both (i) and (ii) (4) None
60. Oral fluids does not include:
- (i) Whey water (ii) Fruit punch  
(1) Only (i) (2) Only (ii)  
(3) (i) and (ii) (4) None
61. Which of the senses help in the selection of clothing?
- (i) Sight (ii) Touch  
(iii) Smell (iv) Hear
- (1) (i), (ii), (iii), (iv)  
(2) (i), (ii), (iii)  
(3) (i), (ii)  
(4) (i), (iv)
62. Shopping is also done according to the status. The higher the social status the more \_\_\_\_\_ is shopping.
- (1) Expensive  
(2) Limited  
(3) Specialized  
(4) None
63. Factors to be considered while choosing men's wear:
- (i) Quality  
(ii) Light weight  
(iii) Durability  
(iv) Appearance and less laundry Requirements.



72. Karnataka accounts of for \_\_\_\_\_% of country's total production of silk.  
(1) 40%                      (2) 50%                      (3) 60%                      (4) 70%
73. The important difference between a home and a house is:  
(1) Physical    (2) Environmental  
(3) Emotional    (4) Terminology
74. Which of the following is a long-term goal?  
(1) Economic stability    (2) Good health  
(3) House    (4) All of the above
75. Who said with Regards to spiritual values that the family is not only the best conveyes but is the producer of values  
(1) Lawerance frank    (2) Leonard Mayo  
(3) Louis F. Rath's    (4) William. E. Engleand's
76. Human Resources at our disposal include  
(i) Skills    (ii) Energy  
(iii) Knowledge    (iv) Metabolism  
(1) (i), (ii), (iii), (iv)    (2) (i), (ii), (iii)  
(3) (i), (ii)    (4) (i), (iv)
77. Which of the following is not a National Resource?  
(1) Water    (2) Ability  
(3) Roads    (4) Trees
78. Who said "Income Management may be defined as planning controlling, evaluating the use of all types of income."  
(1) Nickel and Dorsey    (2) Gross and Candell  
(3) Elizabeth. E. Hoyt    (4) None
79. Who stated this "Decision Making is the Selection based on some criteria from two or more possible alternatives".  
(1) Peter Drucker    (2) George . R. Terroy  
(3) R. S. Davas    (4) Hazel Kyrk
80. Simple Pen pencil and paper techniques in work simplification does not includes.  
(1) Flow process chart    (2) Cyclo graph  
(3) Multiman chart    (4) Pathway chart



81. It is a chart which shows step by step description of the method used in doing a task.
- (1) Operation chart (2) Process chart  
(3) Micro motion film (4) Pathway chart
82. In the baby, gain in weight comes partly from increase in
- (i) Neural (ii) Glandular  
(iii) Muscular tissue s (iv) Physical activity
- (1) (i), (ii), (iii), (iv) (2) (i), (ii), (iii)  
(3) (i), (ii) (4) (i), (iv)
83. Who among the following proposed that cognitive development passes through discrete stages and that these are discontinuous.
- (1) Piaget (2) Froebel  
(3) Montessori (4) Erickson
84. Which of the following is not a barrier in communication?
- (1) Speech and voice defects  
(2) Anxiety tension reaction  
(3) Feeling of superiority  
(4) Lack of confidence
85. Some Non-verbal forms include
- (i) Smiles (ii) Tears  
(iii) Gestures (iv) Body movements
- (1) (i), (ii), (iii), (iv) (2) (i), (ii)  
(3) (i), (iv) (4) (ii), (iii), (iv)
86. Technical Barrier in communication could be
- (1) Over head projector  
(2) Cassette Player  
(3) T.V. radio  
(4) Anxiety Reaction
87. Puppets become valuable..... Only if the message to be communicated is developed in dramatic terms
- (1) Art (2) Visual aid (3) Puppet (4) None

88. Who made the statement on keertana as a weapon of social education if "I were not a journalist to would have been a keertanakar.
- (1) Lok manya tilak (2) Kabir  
(3) Tukaram (4) Gandhi ji
89. A diagramic representation of numerical or quantitative data is:
- (1) Graph (2) Photograph (3) Diagram (4) None
90. In a country like India the problem & difficulty faced in assignment method is/are
- (1) Distance (2) Well equipped library  
(3) Conveyance (4) Time
91. The Preparation of a chart or picture helps in
- (i) Power of observation  
(ii) Drawing skills  
(iii) Copying art  
(iv) Judgment
- (1) (i) (ii), (iii), (iv) (2) (i), (ii)  
(3) (iv), (iii), (ii) (4) (i), (iv)
92. When fear reigns in the mind of audience the communication is:
- (i) Blacked out (ii) Distorted  
(iii) Well Received (iv) Acted upon
- (1) (i), (ii), (iii), (iv)  
(2) (i), (ii), (iii)  
(3) (i), (ii)  
(4) (i), (iv)
93. In which year prasar Bharti Bill passed?
- (1) 1971 (2) 1981  
(3) 1991 (4) 2001
94. Indirect communication could be
- (i) Rumour (ii) Gossip  
(iii) News (iv) Private conversation
- (1) (i), (ii), (iii), (iv) (2) (i), (ii), (iii)  
(3) (i), (ii) (4) (i), (iv)

95. Who controls technology?  
(1) Economics (2) Social system  
(3) Social control (4) None
96. Specific qualities that should be present in a Research worker.  
(i) Knowledge of the subject  
(ii) Personal taste in study  
(iii) Familiarity about the informants  
(iv) Unbiased attitude  
(1) (i), (ii), (iii), (iv) (2) (i), (ii), (iii)  
(3) (i), (ii) (4) (i), (iv)
97. Who stated “The design Result from controlling general scientific model into varied research procedures” .  
(1) E.A. Suchaman (2) P.V. Young  
(3) R.L. Achoff (4) None
98. The interview method depends on individual Research’s  
(1) Ability (2) Capability  
(3) Communication (4) Sensitivity to situation
99. It is the spread between the highest and the lowest score.  
(1) Standard deviation (2) Range  
(3) Ratio (4) None
100. After the data has been edited the next step is to  
(1) Computerize it (2) Publish it  
(3) Classify it (4) None

# 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										

## PAPER-II

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Answer	2	1	1	1	1	4	1	3	4	1	3	2	1	3	2	1	4	3	3	2
Question	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Answer	4	3	4	1	2	2	1	2	1	4	3	4	2	3	3	2	3	2	2	2
Question	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	4	2	2	2	1	2	2	1	3	2	1	3	2	3	2	3	1	1	3	2
Question	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Answer	2	3	2	4	4	3	2	3	3	3	1	1	3	4	2	2	2	1	2	2
Question	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Answer	1	2	1	3	1	4	2	1	1	2	4	3	3	1	1	1	2	1	2	3

## HINTS AND SOLUTIONS

### PAPER-I

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

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

**22.(1)**  $(2.5 - 1) \text{ crores} = 1.5 \times 100 \text{ 00 000}$

$$= 150 \text{ 00 000}$$

**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.

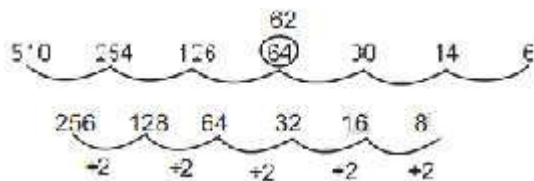
Ex. Oil, Natural gas, coal etc.

**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 webpage 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.

## PAPER-II

1.(2) Performance evaluation of employees in a food service establishment are as indicated at option (2) above.:

**Behaviorally anchored rating scale (BARS):** This method combines the graphic rating scale and the critical incident method. It determines in advance the critical areas of the performance and the most effective behavior to achieve the results. Then the actual job behavior of an employee is evaluated against the predetermined behavior.

**Appraisal through management by objectives (MBO):**

This concept was introduced by Peter Drucker in 1954 who named it management by objectives and self control.

It is also known as goal setting approach to appraisal .In this process the supervisor and subordinate members jointly identify the common goals of the organization and set the areas of the responsibility of each individual in terms of results expected from that person.

These measures are use for operating the unit as well as for appraising the performance of the employees.

Other methods are: 360 degree appraisal, Human Resource Accounting Method and Assessment centre method.

2.(1) Psychological barriers are internal beliefs that cause a person to feel he cannot complete a task. It can be Stage-fright and day dreaming.

The psychological barrier of communication is the influence of psychological state of the communicators (sender and receiver) which creates an obstacle for effective communication.

Psychological barriers generally involve incorrect or unhealthy thought patterns. These can include denial, a perceived lack of social support, a lack of knowledge or a dysfunctional attitude towards the situation. Overcoming psychological barriers involves a realistic, informed perspective of the situation and persistent attempts to break down the barrier through thoughts and actions.

Various emotions like fear, nervousness, confusion, mistrust and jealousy affect communication process.

3.(1)

4.(1) The first thing you should always do with any blood stain is to wet it thoroughly with cold water to make sure that the stain does not dry and become more difficult to deal with.

Apply soap to the stain—hand soap or a bar of soap like the Surf Excel Bar. Then, rinse the soap away in cold water, and reapply more soap if necessary and repeat the process.

Once the stain has faded, the garment can be washed regularly with Surf excel.

Remember to avoid applying heat to a blood stain – whether this is hot water, or heat from a tumble dryer or an iron. Because blood stains are protein-based, heat will set the stain, making it impossible to remove.

5.(1) The power of a hypothesis test is affected by three factors.

- Sample size ( $n$ ). Other things being equal, **the greater the sample size, the greater the power of the test.**

- Significance level ( $\alpha$ ). The higher the significance level, the higher the power of the test.

The “true” value of the parameter being tested. The greater the difference between the “true” value of a parameter and the value specified in the null hypothesis, the greater the power of the test. That is, the greater the effect size, the greater the power of the test.

A larger sample size will result in a smaller standard error of the mean and a more precise estimate.

The standard error of the mean estimates the variability between sample means that you would obtain if you took multiple samples from the same population.

The standard error of the mean estimates the variability between samples whereas the standard deviation measures the variability within a single sample.

6.(4) Cheese can be made using pasteurized or raw milk. Cheese made from raw milk imparts different flavors and texture characteristics to the finished cheese. For some cheese varieties, raw milk is given a mild heat treatment (below pasteurization) prior to cheese making to destroy some of the spoilage organisms and provide better conditions for the cheese cultures.

## General Cheese Processing Steps

Standardize Milk

Pasteurize/Heat Treat Milk

Cool Milk

Inoculate with Starter & Non-Starter Bacteria and Ripen

Add Rennet and Form Curd

Cut Curd and Heat

Drain Whey

Texture Curd

Dry Salt or Brine

Form Cheese into Blocks

Store and Age

Package

- 7.(1) Nylon is made when the appropriate monomers (the chemical building blocks which make up polymers) are combined to form a long chain via a condensation **polymerisation** reaction.

The monomers for nylon 6-6 are adipic acid and hexamethylene diamine. The two molecules are combined to create the polymer and water (H<sub>2</sub>O) is produced as a by-product.

The water is removed from the production process as its continued presence stops the creation of more polymer.

The polymer chain can be made up of over 20,000 monomer units, connected together via an amide group, which contains a nitrogen atom.

The nylon molecules are very flexible with only weak forces, such as hydrogen bonds, between the polymer chains, which tend to tangle randomly.

The polymer has to be warmed and drawn out to form strong fibres

- 8.(3) Mental effort is required to do any task, even the routine tasks like cooking cleaning, washing, etc. though these tasks are performed daily, still one has to think about the way in which it has to be performed and mentally organise the task in sequence. Activities involving mental effort in home making are as indicated at option (3).

**9.(4)** Vitamin A is a group of unsaturated nutritional organic compounds that includes retinol, retinal, retinoic acid, and several pro vitamin A carotenoids (most notably beta-carotene).

Vitamin A has multiple functions: it is important for growth and development, for the maintenance of the immune system and good vision.

Vitamin A also functions in a very different role as retinoic acid (an irreversibly oxidized form of retinol), which is an important hormone-like **growth factor for epithelial and other cells.**

Vitamin A plays a role in a variety of functions throughout the body, such as: Vision, Gene transcription, Immune function, Embryonic development and reproduction, Bone metabolism, Haematopoiesis, Skin and cellular health, Antioxidant activity, Tooth and Mucous membrane

**10.(1)** Lactic acid is formed and accumulated in the muscle under conditions of high energy demand, rapid fluctuations of the energy requirement and insufficient supply of O<sub>2</sub>. It results in physiological fatigue.

It is not concerned with the psychological attitude of the worker's awareness of dislike to work.

**11.(3)** We define hypothesis test as the formal procedures that statisticians use to test whether a hypothesis can be accepted or not.

A hypothesis is an assumption about something.

Hypothesis testing is about testing to see whether the stated hypothesis is acceptable or not. During our hypothesis testing, we want to gather as much data as we can so that we can prove our hypothesis one way or another.

The steps for testing Statistical Hypothesis are as given in option (3).

**12.(2)**

**13.(1) Alta Moda** is the world of Italian high fashion; Italian fashion designers collectively, Italian couture.

**Bespoke** is an adjective for anything commissioned to a particular specification. It may be altered or tailored to the customs, tastes, or usage of an individual purchaser.

**Haute couture** is high end fashion that is constructed by hand from start to finish, made from high quality, expensive, often unusual fabric and sewn with extreme



attention to detail and finished by the most experienced and capable sewers, often using time-consuming, hand-executed techniques.

The **avant-garde** (from French, “advance guard” or “vanguard”, literally “fore-guard”) are people or works that are experimental, radical, or unorthodox, with respect to art, culture, and society.

**14.(3)**

**15.(2)** Glycemic Index (GI) is a measurement carried out on carbohydrate-containing foods and their impact on our blood sugar. GI is a relatively new way of analyzing foods. Foods which are low in Glycemic Index include Rajmeh, Oats and apple. Corn flakes have medium GI.

**16.(1)** The three Rs (as in the letter R) refers to the foundations of a basic skills-oriented education program in schools: reading, writing and arithmetic.

It appeared in print as a space-filler in “The Lady’s Magazine” for 1818, although it is widely quoted as arising from a phrase coined in a toast given by Sir William Curtis, Member of Parliament, in about 1825.

Since its original creation, many others have used the term to describe other trifecta (a run of three wins or grand events).

**17.(4)** AGMARK is an abbreviation for **Agricultural Marketing**. It is a quality certification mark under the Central Agricultural Produce (Grading and Marketing) Act, 1937. This label indicates the quality and purity of the product on the basis of the standards that have been laid down. Under the Agricultural Produce (Grading and Marketing) Act the Government has set up grading stations for commodities like ghee, flour, eggs, etc. The graded goods are stamped with the seal of the **Agricultural Marketing Department –AGMARK**.

The **Eco Mark** is a label given to an **Environment Friendly Product**, Household and other consumer products which meet certain environmental criteria along with the quality requirements of the Indian Standards Institute for that product may be accredited and labeled under this scheme.

**ISI mark** is a certification mark for industrial products in India. The mark certifies that a product conforms to the Indian Standard, mentioned as IS: xxxx on top of the mark, developed by the Bureau of Indian Standards (BIS), the national standards

body of India.

**Hallmark** is a purity certification of **gold articles** in accordance with Indian Standard specifications. Gold articles are evaluated and tested at an official Assaying and Hallmarking Centre and then certified that the metal used conforms to the national and international standard of fineness and purity.

- 18.(3) Because food provides heat strength and energy to our body and it helps in physical functions.
- 19.(3) Because source of vitamin A are spinach, carrots, egg yolk and these sources can help in healthy growth of epithelium and make our eyes healthy.
- 20.(2) Because in this disease teeth became weak and get decayed.
- 21.(4) Copper helps as a catalyst in hemoglobin production with iron.
- 22.(3) Because fresh and citric fruits provide immunity against infectious diseases.
- 23.(4) Because Ghee contains 100% fat as compared to Butter and cheese, ice-cream.
- 24.(1) Because protein, fat and water are the important element present in egg as they provide strength to our body.
- 25.(2) Because frying is an oil cooking method.
- 26.(2) It is called stewing because the other three options are of Dry heat cooking method.
- 27.(1) Because Piaget's cognitive stage starts from birth to adulthood in the above sequence.
- 28.(2) Because if we can't do proper exercise or any kind of physical a activity. It can lead to weight gain.
- 29.(1) Because piaget gave a lot of importance to Human interaction with the environment.
- 30.(4) Because this period consist of 280 days of Pregnancy so it is called pre-natal development.
- 31.(3) Having hurst.
- 32.(4) Because this is a developing task of middle childhood.
- 33.(2) Because this theory postulate that development occurs in a sequence of universal stages.
- 34.(3) Because they are more sociable and can adjust in any condition.
- 35.(3) Because this programme is for childrens to provide care and affection.

- 36.(2)** Because aim of case study is to develop a holistic and complete picture of that child's psychological functioning.
- 37.(3)** Education means full developed or all round development.
- 38.(2)** 14 July 1964.
- 39.(2)** Because without coordination work will not be divided in equal parts and conflicts began.
- 40.(2)** This programme was started for making optimum use of available local resources through science and technology for the benefit of the rural poors.
- 41.(4)** Because N.A.E.P is a Programme started in 1978 to play an active role in social and cultural change.
- 42.(2)** There are only three types of counselling and they are directed. Non – directive and elective.
- 43.(2)** The Primary tool for effective communication is to keep people informed and change their Behaviour.
- 44.(2)** Because as the question it self saying that it's a Profession discussion not personal.
- 45.(1)** Receiver Interpret the Message so that the message can be abled to understand by others.
- 46.(2)** Because there are the places where we can talk freely.
- 47.(2)** Because Puppet can be prepared with waste material at no cost.
- 48.(1)** Because student always get excited by seeing things or material.
- 49.(3)** New, idea, practices and product always makes a new thing so it is a innovation.
- 50.(2)** Because chalk board does not absorb light.
- 51.(1)** Because data collection, analysis of data and good investigation is very hard to do.
- 52.(3)** Because in Gelatinization process these changes takes place.
- 53.(2)** Because in canning the food is sealed in sterile airtight containers on 100°C temperature.
- 54.(3)** Because energy metabolism is ability to do work and other there option are relevant to Nutritional status.
- 55.(2)** Because Glucose has an important function in the blood of man.

- 56.(3) Because Indian diet requires 80% energy by the body.
- 57.(1) Because hydrogenation of vegetable oil induces hydrogen to enter points of unsaturation in the fatty acids.
- 58.(1) Because chemical composition of salt is NaCl—which is sodium chloride so it can be easily, made up by salt.
- 59.(3) Both (i) and (ii).
- 60.(2) Because only fruit punch will not provide proper Nutrients to the child.
- 61.(2) Because we can see, touch and smell the clothes but we can't hear them.
- 62.(3) Because a person of higher social status may have special kind of choice of clothes.
- 63.(2) Because All men's cannot carry their clothes well.
- 64.(4) Because these symbol are used for making central lines, seam allowances, identify parts sleep cap etc.
- 65.(4) their names are proportion, Balance Harmony emphasis and Rhythm.
- 66.(3) These are the main ingredients and its purpose in laundry is to make it lather.
- 67.(2) Because there is only one mineral fiber and it is Asbestos.
- 68.(3) Right sequence is it starts from fibers than yarns and fabric and at last textile.
- 69.(3) Shubnam, Arawan, Arkamedu, Mosolin are the name of Muslin.
- 70.(3) The larvas of caterpillars are only depended on Mulberry leaves.
- 71.(1) Because when a fabric prepared it goes through weaving, Netting, knitting and felting method.
- 72.(1) Because Karnataka is No.1 in silk Production in India.
- 73.(3) Because it's a "house" but we get emotionally attached with that then we call it "home".
- 74.(4) Because these all are the goals which will take long duration of time be fulfilled.
- 75.(2) Leonard Mayo.
- 76.(2) Because Metabolism is not a Human – Resource.
- 77.(2) Because Ability is a personal Resource.
- 78.(1) Nickel and Dorsey.
- 79.(2) George R. Terry.
- 80.(2) Because it's a formal technique

- 81.(1)** Because in operation chart different parts of work are performed in a sequence.
- 82.(2)** Because through physical activity child can get early development process but not gain in weight.
- 83.(1)** Piaget has given five stages of cognitive development . Oval, Anal, Phallic, Latency and Genital.
- 84.(3)** Because feeling of superiority will not cause any problem in communication rather it will help.
- 85.(1)** Because we can't only talk in non-verbal form.
- 86.(4)** Because it's a personality barriers not a technical one.
- 87.(2)** Because drama is a very good medium of communication with the villagers.
- 88.(1)** Lok – manya tilak.
- 89.(1)** Because data can be presented through only graphs.
- 90.(2)** Because there is no. facility of proper library in India.
- 91.(4)** Because it does not relate to drawing skills and copying art.
- 92.(3)** Because fear is that anxiety /emotion which will Blanked out any person.
- 93.(3)** Prasar Bharti Bill passed in 1991
- 94.(1)** We can say anything in indirect communication.
- 92.(1)** Others three options are net at all relevant with technology.
- 96.(1)** Specific qualities that should be present in a Research worker.
- (i) Knowledge of the subject
  - (ii) Personal taste in study
  - (iii) Familiarity about the informants
  - (iv) Unbiased attitude
- 97.(2)** P.V. young.
- 98.(1)** Because through his ability he may be able to ask as many question he can.
- 99.(2)** The value between the highest and the lowest score is called range.
- 100.(3)** Classification should be done after editing.