

COMBINED RESEARCH ASSISTANT IN VARIOUS SUBORDINATE  
SERVICES EXAMINATION-2023

COMPUTER BASED TEST

PAPER – I

COMPRISING 10 SUBJECTS  
(P.G.DEGREE STANDARD)

1. The fact that all the Supply and Demand amounts equal 1 has led to the development of a simple solution algorithm is called
- ~~(A)~~ The Hungarian method                      (B) Vogel approximation method  
(C) Simplex methods                              (D) Graphical methods  
(E) Answer not known

2. A letter is known to have come either from TATANAGAR or from CALCUTTA. On the envelope just two consecutive letters TA are visible. What is the probability that the letter come from CALCUTTA?
- ~~(A)~~  $\frac{4}{\pi}$     (B)  $\frac{1}{2}$   
(C)  $\frac{1}{11}$     (D)  $\frac{3}{11}$   
(E) Answer not known

3. Given  $f(x,y) = x e^{-(y+1)}$ ,  $x \geq 0$ ,  $y \geq 0$  then the regression curve of Y on X is
- (A)  $y = x$     ~~(B)~~  $xy = 1$   
(C)  $x = 1$     (D)  $y = e^{-x}$   
(E) Answer not known

4. The rankings of ten students in two subjects A and B are as follows :
- A : 3 5 8 4 7 10 2 1 6 9  
B : 6 4 9 8 1 2 3 10 5 7
- Then the coefficient of rank correlation  $r =$
- (A) 1    (B) 0.3  
(C) -0.5    ~~(D)~~ -0.3 (approx)  
(E) Answer not known

5. Let  $T_1 = \{\emptyset, \{a\}, x\}$   $T_2 = \{\emptyset, \{b\}, x\}$   $T_3 = \{\emptyset, \{c\}, x\}$  are topologies on  $x = \{a, b, c\}$ . Then
- (A)  $T_1 \subset T_2$  but  $T_2 \not\subset T_3$                       (B)  $T_1 \not\subset T_2$  but  $T_2 \subset T_3$   
~~(C)~~  $T_1 \not\subset T_2$  and  $T_2 \not\subset T_3$                       (D)  $T_1 \subset T_2$  and  $T_2 \subset T_3$   
(E) Answer not known
6. If  $(X, d)$  is a metric space and  $d_1$  another metric defined as  $d_1(x, y) = \min\{1, d(x, y)\}$  then  $d$  and  $d_1$  are
- (A) different metrics  
~~(B)~~ topologically equivalent metrics  
(C)  $d_1$  is not at all a metric  
(D)  $d$  and  $d_1$  are pseudo metrics  
(E) Answer not known
7. In the real line  $\mathbb{R}$ , in which of the following subsets, the order topology and subspace topology coincide.
- ~~(A)~~  $Y = [0, 1]$     (B)  $Y = [0, 1] \cup \{2\}$   
(C)  $Y = [0, 1] \cup [2, 3]$                                       (D)  $Y = [0, 1] \cup \{2\} \cup \{3\}$   
(E) Answer not known
8. Let  $X$  be a normed space and  $A \in BL(X)$  be of finite rank. Then which one of the following is not true.
- (A) The range of  $A$  is finite dimensional  
(B)  $\sigma_e(A) = \sigma_a(A) = \sigma(A)$   
~~(C)~~  $\sigma_e(A) \neq \sigma_a(A) \neq \sigma(A)$   
(D)  $P(A) = \{k : A - kI \text{ is invertible}\}$  is called the resolvent set of  $A$ .  
(E) Answer not known

9. If a complete metric space is the union of sequence of its subsets, then the closure of
- (A) Atleast one set in the sequence must have nonempty interior
  - (B) Atmost one set in the sequence must have nonempty interior
  - (C) All sets in the sequence must have nonempty interior
  - (D) All sets in the sequence must have empty interior
  - (E) Answer not known
10. Let  $X = 1K^2$  be a normed linear space for  $x = (x(1), x(2)) \in 1K^2$ . Define  $A(x) = (0, x(1))$ ,  $B(x) = (x(2), 0)$ . Then  $AB(x) =$
- (A)  $(0, x(1))$   (B)  $(x(1), 0)$
  - (C)  $(0, x(2))$   (D)  $(x(2), 0)$
  - (E) Answer not known
11. The harmonic conjugate of  $u = \frac{1}{2} \log(x^2 + y^2)$  is
- (A)  $\tan^{-1}\left(\frac{y}{x}\right) + c$   (B)  $\tan^{-1}\left(\frac{x}{y}\right) + c$
  - (C)  $\tan\left(\frac{x}{y}\right) + c$   (D)  $\tan\left(\frac{y}{x}\right) + c$
  - (E) Answer not known
12. The arithmetic mean of a harmonic function over concentric circles  $|z| = r$  is a
- (A) Quadratic function of  $\log r$   (B) Linear function of  $\log r$
  - (C) Quadratic function of  $r$   (D) Linear function of  $r$
  - (E) Answer not known

13.  $f(z) = x$  is
- (A) not analytic at the origin
  - (B) analytic everywhere in the  $z$ -plane
  - (C) not analytic anywhere in the  $z$ -plane except at the origin
  - ~~(D)~~ not analytic anywhere in the  $z$ -plane
  - (E) Answer not known
14. The coefficient of  $z^4$  in the expansion of  $\log\left(\frac{\sin z}{z}\right)$  is
- ~~(A)~~  $-\frac{1}{180}$
  - (B)  $-\frac{1}{45}$
  - (C)  $\frac{1}{45}$
  - (D)  $\frac{1}{180}$
  - (E) Answer not known
15. If ' $f$ ' is continuous on  $[a, b]$ . Then ' $f$ ' is of bounded variation on  $[a, b]$  if and only if
- (A)  $f$  can be expressed as the sum of two increasing continuous functions
  - ~~(B)~~  $f$  can be expressed as the difference of two increasing continuous functions
  - (C)  $f$  can be expressed as the product of two increasing continuous functions
  - (D)  $f$  can be expressed as the quotient of two increasing continuous functions
  - (E) Answer not known

16. The general solution of the partial differential equation  $\frac{\partial z}{\partial x} + 3\frac{\partial z}{\partial y} = 5z + \tan(y - 3x)$  is

(A)  $f[y - x, e^{-5x}\{5z + \tan(y - 3x)\}] = 0$

~~(B)~~  $f[y - 3x, e^{-5x}\{5z + \tan(y - 3x)\}] = 0$

(C)  $f[y - 3x, e^{5x}\{5z - \tan(y + 3x)\}] = 0$

(D)  $f[y + x, e^{5x}\{5z - \tan(y + 3x)\}] = 0$

(E) Answer not known

17. The solution of the partial differential equation  $x^2(y - z)p + y^2(z - x)q = z^2(x - y)$

(A)  $\phi\left(xyz, \frac{1}{x^2} + \frac{1}{y^2} + \frac{1}{z^2}\right) = 0$

(B)  $\phi(x + y + z, xyz) = 0$

~~(C)~~  $\phi\left(xyz, \frac{1}{x} + \frac{1}{y} + \frac{1}{z}\right) = 0$

(D)  $\phi\left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z}, x + y + z\right) = 0$

(E) Answer not known

18. If  $x_0$  is a singular point of the differential equation  $y'' + py' + qy = 0$  and  $(x - x_0)P(x)$  and  $(x - x_0)^2 q(x)$ , are analytic at  $x_0$ , then  $x_0$  is called

(A) an ordinary point                      ~~(B)~~ a regular singular point

(C) an irregular singular point        (D) a regular point

(E) Answer not known

19. If  $V$  is the set of all continuous, complex valued functions on  $[0,1]$  with inner product defined by

$$(f(t), g(t)) = \int_0^1 f(t) \overline{g(t)} dt, \text{ then } \left| \int_0^1 f(t) \overline{g(t)} dt \right|^2 \text{ is}$$

- ~~(A)~~ less than or equal to  $\int_0^1 |f(t)|^2 dt \int_0^1 |g(t)|^2 dt$   
 (B) greater than or equal to  $\int_0^1 |f(t)|^2 dt \int_0^1 |\overline{g(t)}|^2 dt$   
 (C) less than  $\int_0^1 |f(t)|^2 dt \int_0^1 |\overline{g(t)}|^2 dt$   
 (D) equal to  $\int_0^1 |\overline{f(t)}|^2 dt \int_0^1 |\overline{g(t)}|^2 dt$   
 (E) Answer not known

20. If  $V$  is a vector space over  $F$  then

- ~~(A)~~  $(-\alpha)v = -(\alpha v)$  for  $\alpha \in F, v \in v$   
 (B)  $(-\alpha)v = (\alpha v)$  for  $\alpha \in F, v \in v$   
 (C)  $(-\alpha)v = -(\alpha v)$  for  $\alpha \in F, v \in v$   
 (D)  $(-\alpha)v = (-\alpha)(-v)$  for  $\alpha \in F, v \in v$   
 (E) Answer not known

21. If  $G$  is a group, then  $\mathfrak{A}(G)$ , the set of automorphism of  $G$ , is also

- (A) a variable ~~(B)~~ a group  
 (C) homomorphism (D) automorphism  
 (E) Answer not known



26. The zonal council is A \_\_\_\_\_ link between centre and State, aims at promoting inter-State Cooperation and Coordination.

- (A) De-factor administration      ~~(B)~~ Sub-federal  
(C) Expenditure Committee      (D) Dispute Settlement  
(E) Answer not known

27. Match the following :

List I Finance Commission		List II Chairperson	
(a) First Finance Commission		1. Sri Santhanam	
(b) Second Finance Commission		2. Sri.A.K. Chanda	
(c) Third Finance Commission		3. Dr. Raja Mannar	
(d) Fourth Finance Commission		4. Sri Neogy	

- |                | (a)              | (b) | (c) | (d) |
|----------------|------------------|-----|-----|-----|
| (A)            | 2                | 3   | 4   | 1   |
| (B)            | 1                | 2   | 3   | 4   |
| <del>(C)</del> | 4                | 1   | 2   | 3   |
| (D)            | 4                | 3   | 2   | 1   |
| (E)            | Answer not known |     |     |     |

28. Choose the right matches in the following.

- |                      |   |                                      |
|----------------------|---|--------------------------------------|
| (1) Robert A. Dahl   | – | The Science of Public Administration |
| (2) Herbert A. Simon | – | Administrative Behaviour             |
| (3) Dwight Waldo     | – | The Administrative States            |
| (4) Douglas McGregor | – | Two factors theory                   |
- (A) (1) and (4) are correct      (B) (3) and (4) are correct  
(C) (1), (2) and (4) are correct      ~~(D)~~ (1), (2) and (3) are correct  
(E) Answer not known



29. Public Management has three dimensions such as
- (A) Structure, culture and craft
  - (B) Structure, planning and culture
  - (C) Culture, Craft and budget
  - (D) Structure budget and planning
  - (E) Answer not known
30. Which of the following statements are true about Henry Fayol?
- (1) He is regarded as the father of classical theory
  - (2) General and industrial management was published in France
  - (3) 4Ps of organisation
  - (4) 14 principles of organisation
- (A) (1) and (2) only                      (B) (2) and (3) only  
(C) (1), (2) and (3) only                 (D) (1), (2) and (4) only  
(E) Answer not known
31. Who emphasised the following statement “The need to employ the concept of ecology to study the necessary interdependence of public bureaucracy and its environment”
- (A) M. Gaus                                      (B) Robert A Dahl
  - (C) F.W. Riggs                                    (D) Y. Dror
  - (E) Answer not known

32. Which of the following is correctly matched?
- (1) L.D. White – Introduction to the study of public administration  
 (2) Willoughby – Principles of Public Administration  
 (3) Waldo – The Administrative State  
 (4) Henry Fayol – Shop management
- (A) (1) and (2) are correct  
 (B) (2) and (4) are correct  
~~(C)~~ (1), (2) and (3) are correct  
 (D) (1), (2),(3) and (4) are correct  
 (E) Answer not known
33. When some change is introduced, like a revised appraisal system, or a new job evaluation scheme, such type of report is called
- (A) Factual report (B) Leading report  
~~(C)~~ Instructional report (D) Technical report  
 (E) Answer not known
34. Match the following.
- | Source of knowledge | Description   |
|---------------------|---|
| (a) Rationalism     | 1. Observation of organism and events in the real world |
| (b) Empiricism      | 2. Clinging stubbornly to repeated ideas                |
| (c) Science         | 3. Form of a syllogism                                  |
| (d) Tenacity        | 4. Collect data and test hypothesis                     |
- (a) (b) (c) (d)  
 (A) 3 4 1 2  
~~(B)~~ 3 1 4 2  
 (C) 2 1 4 3  
 (D) 1 2 3 4  
 (E) Answer not known

35. Which of the following is not the cause of female foeticide?
- (A) Poverty and economic crisis
  - (B) Role of Greedy doctors
  - ~~(C)~~ Lack of awareness
  - (D) Weakness in the enforcement of law
  - (E) Answer not known
36. The SHG must establish linkage with the lead bank of the area after \_\_\_\_\_ of operation.
- (A) Two months
  - (B) Four months
  - ~~(C)~~ Six months
  - (D) One year
  - (E) Answer not known
37. Who established Satya Sadhak Samaj?
- (A) Ambedkar
  - ~~(B)~~ Jyothirao Phule
  - (C) Dayanand Saraswathi
  - (D) Sri Narayana Guru
  - (E) Answer not known
38. A social movement that seeks to change society radically is
- ~~(A)~~ Revolutionary social movement
  - (B) Revivalist social movement
  - (C) Reformative social movement
  - (D) Resistance social movement
  - (E) Answer not known

39. The scheduled tribes who were educationally and socially more backward and nearly isolated, surviving at pre-agricultural level, and had a declining or nearly constant population, were placed separately in a list of primitive tribes. Among the following identify the tribes who are not primitive tribes?
- (1) Jarwa
  - (2) Irulas
  - (3) Sentinel
  - (4) Bhils
  - (5) Gond
- (A) (1) and (5) are correct  
~~(B)~~ (2), (4) and (5) are correct  
(C) (1), (2), (4) and (5) are correct  
(D) (1), (4) and (5) are correct  
(E) Answer not known
40. Which one of the following will decide the degree of stability and social harmony in the agrarian area?
- (A) The nature of social relations
  - ~~(B)~~ The nature of land relations
  - (C) The nature of industrial relations
  - (D) The nature of cultural relations
  - (E) Answer not known
41. SFDA ensured \_\_\_\_\_ facilities to small farmer.
- (A) Income
  - ~~(B)~~ Credit
  - (C) Employment
  - (D) Marketing
  - (E) Answer not known

42. The sentiment that characterizes the relations of men towards the members of their own and other classes is called

- (A) Class stratification (B) Competitive class feeling  
~~(C)~~ Class consciousness (D) Class antagonism  
(E) Answer not known

43. Only in 1935 the British coin the term 'scheduled caste' till the 1931 census they were called the

- ~~(A)~~ Depressed castes (B) Untouchables  
(C) Harijans (D) Lower castes  
(E) Answer not known

44. Match List I with List II and choose the answer from the codes given below.

List I

- (a) Fatalistic suicide  
(b) Altruistic suicide  
(c) Anomic suicide  
(d) Egoistic suicide

List II

1. Excess integration  
2. Insufficient integration  
3. Excess regulation  
4. Insufficient regulation

- |                | (a)              | (b) | (c) | (d) |
|----------------|------------------|-----|-----|-----|
| (A)            | 3                | 2   | 4   | 1   |
| <del>(B)</del> | 3                | 1   | 4   | 2   |
| (C)            | 2                | 3   | 1   | 4   |
| (D)            | 4                | 3   | 1   | 2   |
| (E)            | Answer not known |     |     |     |

45. Choose the right matches from the following.
- |                    |                                    |
|--------------------|------------------------------------|
| (a) Max Weber      | 1. Religious values and Puritanism |
| (b) Auguste Comte  | 2. Ideal type                      |
| (c) R.K. Merton    | 3. Looking Glass self              |
| (d) Emile Durkheim | 4. Mechanical solidarity           |
- ~~(A)~~ (1) and (4) are correct  
 (B) (2) and (3) are correct  
 (C) (1) and (3) are correct  
 (D) (3) and (4) are correct  
 (E) Answer not known
46. \_\_\_\_\_ occurs when two men marry each other's sisters.
- (A) Matrilateral cross cousin marriage  
 (B) Patrilateral cross cousin marriage  
~~(C)~~ Bilateral cross cousin marriage  
 (D) Parallel cousin marriage  
 (E) Answer not known
47. Which of the following is not the secondary functions of the family?
- |                                  |                          |
|----------------------------------|--------------------------|
| (A) Economic function            | (B) Religious function   |
| <del>(C)</del> Provision of home | (D) Educational function |
| (E) Answer not known             |                          |
48. Which of the following is not a characteristics of mores?
- (A) Mores are the regulators of our social life  
 (B) Mores are relatively more persistent  
 (C) Mores are backed by values and religion  
~~(D)~~ Mores are similar from group to group  
 (E) Answer not known

49. Assimilation is the substitution of
- (A) Movement of individuals, families and groups
  - ~~(B)~~ One nationality pattern for another
  - (C) Acculturation
  - (D) Transition
  - (E) Answer not known
50. According to Auguste Comte, law of three stages clearly established the close association with
- (A) Evolution, Positive and social progress.
  - (B) Individualism, enrichment social progress
  - ~~(C)~~ Intellectual, evolution and social progress
  - (D) Evolution, Scientific attitude, social progress
  - (E) Answer not known
51. History is a descriptive Science and sociology is \_\_\_\_\_ science.
- (A) Concrete
  - ~~(B)~~ Analytical
  - (C) Applied
  - (D) Critical
  - (E) Answer not known
52. One of the statement about lead bank is not correct
- (A) Catalytic agent of a lead district
  - (B) Evolve integrated credit plan
  - (C) Consortium leader
  - ~~(D)~~ Monopoly in banking business in the district
  - (E) Answer not known

53. The concept of poverty gap along with poverty line was propounded first by these economists
- (A) B.S. Minhas and L.R. Jain
  - (B) Mohan Gurusamy and Ronald Joseph Abraham
  - (C) S. Mahendra Dev and C. Ravi
  - ~~(D)~~ Gaurav Datt and Martin Ravallion
  - (E) Answer not known
54. Commission for agricultural cost and prices was established in the year
- ~~(A)~~ January 1965
  - (B) June 1965
  - (C) January 1969
  - (D) June 1969
  - (E) Answer not known
55. Markets in which future sales and purchase of commodities take place at the current time is called
- ~~(A)~~ Forward markets
  - (B) Backward markets
  - (C) Secular markets
  - (D) Neutral markets
  - (E) Answer not known
56. The objective of “Uzhavar Santhai” (Farmer’s market) is
- (A) Assured price for farmers
  - (B) Minimum price for consumers
  - ~~(C)~~ Farmers to get more share on consumer rupee
  - (D) Value addition for the commodity
  - (E) Answer not known



57. The market structure where there is few buyer in a market is termed as
- (A) Monopsony (B) Duopsony  
~~(C)~~ Oligopsony (D) Monopolistic competition  
(E) Answer not known
58. The wages increase more than the labour productivity with increase price of a commodity, which leads to
- ~~(A)~~ Cost push inflation (B) Cost pull inflation  
(C) Demand pull inflation (D) Galloping  
(E) Answer not known
59. Net National Product (NNP) is calculated by
- (A)  $GNP \times \text{depreciation}$  ~~(B)~~  $GNP - \text{depreciation}$   
(C)  $GNP + \text{depreciation}$  (D)  $GNP \div \text{depreciation}$   
(E) Answer not known
60. When a given proportionate change in price results in the same proportionate change in the quantity demanded of a commodity, the demand is known as
- (A) Perfectly Elastic (B) Perfectly Inelastic  
(C) Relatively Elastic ~~(D)~~ Unitary Elastic  
(E) Answer not known
61. The prices are charged based on consumer taste and income are called as
- (A) Price equilibrium (B) Consumer price  
~~(C)~~ Price discrimination (D) Price parity  
(E) Answer not known

62. The amount of consumer's surplus in case of necessary goods is \_\_\_\_\_ than luxury goods.
- (A) Zero (B) Lower  
~~(C) Higher~~ (D) Constant  
(E) Answer not known
63. You can enter which types of data into worksheet cells?
- ~~(A) Labels, values and formulas~~  
(B) Labels and values but not formula  
(C) Values and formulas but not labels  
(D) Formula only  
(E) Answer not known
64. The use of statistics in analysis of sales territories, advertising strategies and routing of sales personal are classified as uses of
- (A) Statistics in personal management  
(B) Statistics in finance  
~~(C) Statistics in marketing~~  
(D) Statistics in production  
(E) Answer not known
65. The basic unit of a worksheet into which you enter data in excel is called a
- ~~(A) Cell~~ (B) Table  
(C) Box (D) Column  
(E) Answer not known

66. For testing  $H_0 : \mu = \mu_2$  the value of the statistic  $\frac{|\bar{x} - \bar{y}|}{\left(\sigma \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}\right)}$  lies

between 1.96 and 2.58, then  $H_0$  is

- (A) Rejected at 5% level of significance
- (B) Accepted at 5% level of significance
- (C) Rejected at 1% level of significance
- (D) Accepted at 1% level of significance
- (E) Answer not known

67. If in a contingency table of order  $(2 \times 3)$ , the frequencies are such that  $x + y + z = N$  and  $x' + y' + z' = N$ , the value of statistic  $-\chi^2$  is :

- (A)  $(x - x')^2 + (y - y')^2 + (z - z')^2$
- (B)  $\frac{(x - x')^2}{2} + \frac{(y - y')^2}{2} + \frac{(z - z')^2}{2}$
- (C)  $\left(\frac{x - x'}{x + x'}\right)^2 + \left(\frac{y - y'}{y + y'}\right)^2 + \left(\frac{z - z'}{z + z'}\right)^2$
- (D)  $\frac{(x - x')^2}{x + x'} + \frac{(y - y')^2}{y + y'} + \frac{(z - z')^2}{z + z'}$
- (E) Answer not known

68. The mean difference between 9 paired observations is 15.0 and the standard deviation of differences is 5.0. The value of statistic  $t$  is :

- (A) 3
- (B) 9
- (C) 27
- (D) 0
- (E) Answer not known

69. A population is divided into clusters and it has been found that all items within a cluster are alike. Which of the following procedures would you adopt?
- (A) Simple Random sampling      (B) Cluster sampling  
 (C) Systematic sampling      ~~(D) Stratified sampling~~  
 (E) Answer not known
70. With usual notations, in proportional allocation, the  $Var(\bar{y}_{st})_{prop} =$
- (A)  $\frac{1}{N} \sum_{i=1}^k S_i^2 P_i^2$       (B)  $\frac{1}{N-1} \sum_{i=1}^k S_i P_i$   
 (C)  $\frac{1}{N^2} \sum_{i=1}^k P_i^2 S_i$       ~~(D)  $\left(\frac{1}{n} - \frac{1}{N}\right) \sum_{i=1}^k P_i S_i^2$~~   
 (E) Answer not known
71. In SRSWOR, the sample mean square is an unbiased estimate of the population mean square :
- (A)  $E(\bar{x}) = \mu$       (B)  $E(S^2) = s^2$   
~~(C)  $E(s^2) = S^2$~~       (D)  $E(\sigma^2) = \frac{1}{s^2}$   
 (E) Answer not known
72. Which of the following articles of the Constitution provides the laws for abolition of untouchability?
- ~~(A) Article 17~~  
 (B) Article 41  
 (C) Article 370  
 (D) Article 35  
 (E) Answer not known

73. Modern social-cultural anthropology is conceptualized as
- (A) The comparative study of culture
  - (B) The comparative study of social structures
  - ~~(C)~~ Both (A) and (B)
  - (D) None of the above
  - (E) Answer not known
74. Old stone age is also known as
- ~~(A)~~ Palaeolithic
  - (B) Mesolithic
  - (C) Neolithic
  - (D) All of the above
  - (E) Answer not known
75. According to the radiocarbon dating the recent excavation in Keeladi near Madurai revealed a Sangam era settlement dated to the
- ~~(A)~~ 2<sup>nd</sup> Century BCE
  - (B) 3<sup>rd</sup> Century BCE
  - (C) 1<sup>st</sup> Century BCE
  - (D) 4<sup>th</sup> Century BCE
  - (E) Answer not known
76. Which among the following is the first flake tool culture
- ~~(A)~~ Clactonian culture
  - (B) Levalloisian culture
  - (C) Mountain culture
  - (D) Acheulian culture
  - (E) Answer not known
77. Which of the following archaeological site had one of the earliest Dock-yard?
- (A) Kalibangan
  - (B) Attiram Pakkam
  - ~~(C)~~ Lothal
  - (D) Pallavaram
  - (E) Answer not known

78. Who among the following used statistical technique in analyzing the basic data on kinship?
- (A) Evons – Pritchard                      ~~(B)~~ G. P. Murdock  
 (C) A. R. Radcliffe – Brown                (D) A. C. Haddon  
 (E) Answer not known
79. The comparative study of people is related to
- (A) Ethnography                                ~~(B)~~ Ethnology  
 (C) Both (A) and (B)                        (D) None of the above  
 (E) Answer not known
80. The concept of inter subjectivity was first introduced by
- (A) William Thomas                         (B) Edmund Leach  
 (C) William Brown                          ~~(D)~~ Edmund Husserl  
 (E) Answer not known
81. The unique type of economic exchange found among the trobrianders.
- (A) Redistribution                              (B) Silent trade  
~~(C)~~ Kula ring                                    (D) Pottach  
 (E) Answer not known
82. Surplus production allows
- ~~(A)~~ A true division of labour                (B) Warfare  
 (C) Segmentary hierarchy                    (D) Elaborate kinship organization  
 (E) Answer not known

83. Teknonymy
- (A) When a person is referred to a son/daughter of his/her parent
  - ~~(B)~~ When a person is referred to as a parent of his/her child
  - (C) When descent is traced through females exclusively
  - (D) One related by descent through males only
  - (E) Answer not known
84. Marriage of high caste man with a low caste woman is called
- ~~(A)~~ Hypogamy
  - (B) Hypergamy
  - (C) Monogamy
  - (D) Endogamy
  - (E) Answer not known
85. The most important social function of the 'Potlatch' ritual
- ~~(A)~~ Preventing the surplus accumulated by household
  - (B) To celebrate the accession of an heir to a high position
  - (C) To initiate the building of a new house
  - (D) To remove the infringement of honour
  - (E) Answer not known
86. Who among the following was one of the two founding fathers of Economic Anthropology?
- (A) B. Malinowski
  - (B) Paul Bohanan
  - ~~(C)~~ Raymond Firth
  - (D) Karl Polayani
  - (E) Answer not known

87. Which among the following is the most common form of marriage the world over?
- (A) Polyandry (B) Monogamy  
~~(C)~~ Polygyny (D) Group marriage  
(E) Answer not known
88. Ethnocentrism is
- ~~(A)~~ Viewing one's own culture as superior and applying its values in judging other cultures  
(B) A surprise and confusion we feel when we encounter another culture  
(C) Understanding another culture in terms of its own values rather than one's own  
(D) The view that no one has the right to question any cultural behaviour  
(E) Answer not known
89. Among the following what are considered as egalitarian?
- ~~(A)~~ Band and tribe (B) Tribe and chiefdom  
(C) Chiefdom and state (D) State and band  
(E) Answer not known
90. Development anthropology
- ~~(A)~~ Is a new name for applied anthropology  
(B) An area of specialization in economic anthropology  
(C) An independent specialized branch of social-cultural anthropology  
(D) None of the above  
(E) Answer not known



91. Who has defined Anthropology as the “Mirror of Man”?
- (A) B. Malinowski (B) A. L. Kroeber  
~~(C)~~ Clyde Kluckhohn (D) Radcliffe-Brown  
 (E) Answer not known
92. In information security, BPR refers to
- ~~(A)~~ Business Process Re-Engineering  
 (B) Business Progress Re-Engineering  
 (C) Business Process Re-Organized  
 (D) Business Process Remembering  
 (E) Answer not known
93. Choose the right matches among type  
 Method of studying regression
- (i) Graphic method  
 (ii) Algebraic method  
 (iii) Index method  
 (iv) Positive and negative method
- (A) (i) and (iii) are correct ~~(B)~~ (i) and (ii) are correct  
 (C) (ii) and (iii) are correct (D) (iii) and (iv) are correct  
 (E) Answer not known
94. Chi-square, symbolically written as
- (A)  $\sigma^2$  (B)  $E^2$   
 (C)  $O^2$  ~~(D)~~  $\chi^2$   
 (E) Answer not known

95. The Fisher index number is
- (A) AM of Laspeyres and Paasche index number
  - ~~(B)~~ GM of Laspeyres and Paasche index number
  - (C) HM of Laspeyres and Paasche index number
  - (D) WM of Laspeyres and Paasche index number
  - (E) Answer not known
96. Which of the following statements are true about analysis of data?
- (a) Coding operation : data is transformed into symbols, may be tabulated and counted
  - (b) Editing : Improves the quality of the data for coding
  - (c) Tabulation : Classified data is put in the form of tables
  - (d) Computers : To study large number of variables affecting a problem simultaneously
- (A) (a) only
  - (B) (a) and (c) only
  - (C) (a) and (b) only
  - ~~(D)~~ All the above
  - (E) Answer not known
97. While using secondary data, the researcher must see the following characteristics :
1. Reliability of data
  2. Suitability of data
  3. Adequacy of data
  4. Qualitative data
- (A) 2, 3 and 4
  - ~~(C)~~ 1, 2 and 3
  - (B) 1, 2 and 4
  - (D) 1, 3 and 4
  - (E) Answer not known

98. Choose the right answer among the following :

The preparation of the research design, appropriate for a particular research problem, involves usually the consideration of the following :

- (i) The means of obtaining the information
- (ii) The availability and skills of the researcher and his/her staff (if any)
- (iii) Explanation of the way in which selected means of obtaining information will be organised and the reasoning for research
- (iv) The cost factor is not relatively to research

- ~~(A)~~ (i), (ii) and (iii) only                      (B) (i), (ii) and (iv) only  
(C) (iii) and (iv) only                              (D) (ii) and (iii) only  
(E) Answer not known

99. Arrange the following in logical sequence :

The phases of strategic management process are

1. Formulation of strategies
2. Establishment of strategic intent
3. Strategic evaluation and control
4. Implementation of strategies

- ~~(A)~~ 2, 1, 4, 3                                      (B) 2, 1, 3, 4  
(C) 1, 2, 3, 4                                      (D) 1, 2, 4, 3  
(E) Answer not known

100. Choose the Scheme which is incorrect.

International Labour Organisation (ILO) classifies all the schemes of payments as

- ~~(A)~~ Schemes in which earnings doesn't vary in proportion to output.
- (B) Schemes where earnings vary proportionately less than output
- (C) Schemes where earnings vary proportionately more than output
- (D) Schemes where earnings differ at different levels of output
- (E) Answer not known

101. HR demand forecasting techniques are

- (i) Ratio Trend Analysis
- (ii) Managerial Judgement
- (iii) Turnover Rate
- (A) Only (i) is correct
- ~~(B)~~ (i) and (ii) are correct
- (C) (ii) and (iii) are correct
- (D) (i) and (iii) are correct
- (E) Answer not known

102. Choose the right match

- (1) Niche marketing – Focus on sub segments with distinctive traits
- (2) Segment marketing – tailoring brands and promotions to the needs and wants to local customer
- (3) Customised marketing – One to one marketing
- (4) Geographic Segmentation – Life cycle Segmentation
- (A) (1) and (2) are correct
- ~~(B)~~ (1) and (3) are correct
- (C) (2) and (3) are correct
- (D) (2) and (4) are correct
- (E) Answer not known

103. Choose the correct answer :-

With regard to Job analysis, which is/are correct answer?

- (i) Job analysis involves collection of Job related information
  - (ii) The process of Job analysis results in two sets of data Job Descriptions and Job specifications
  - (iii) Job analysis is not required for Personnel Planning
- (A) (i) only
  - ~~(B)~~ (i) and (ii) only
  - (C) (i) and (iii) only
  - (D) (ii) and (iii) only
  - (E) Answer not known

104. Customer Lifetime Value is

- ~~(A)~~ Value of the entire stream of purchases during life time.
- (B) Value of the entire purchases during one time
- (C) Value of not purchases made
- (D) Value of purchase made worth more than Life value of the product
- (E) Answer not known

105. Complete the sentence

A firm that finances its assets by equity and debt is called a \_\_\_\_\_ firm

- (A) Unlevered firm
- ~~(B)~~ Levered firm
- (C) Private firm
- (D) Debt firm
- (E) Answer not known

106. Piggyback refers to :

- (A) Transporting truck trailers on rail road flat cars usually over long distance than trucks normally haul.
- (B) Transporting truck on road
- (C) Transporting on Sea
- (D) Transporting on Air
- (E) Answer not known

107. Choose the right matches type :

Which of the following is correctly paired with regard to Quality Management

- (1) PDSA – Plan, Do, Study, Act
- (2) JIT – Just In Time
- (3) QFD – Quality Function Development
- (4) TQM – Total Quality Management
- (A) (2), (3) are correct and (1), (4) are incorrect
- (B) (3), (4), (1) are correct and (2) is incorrect
- (C) (1), (3) are correct and (2), (4) are incorrect
- (D) (1), (2), (4) are correct and (3) is incorrect
- (E) Answer not known

108. Pick the Correct Choice

Supply Chain includes

- (A) manufacturer, supplier and transporter only
- (B) manufacturer, supplier and transporter and customers
- (C) manufacturer, supplier and transportation and not customers
- (D) manufacturer, supplier, customers and not transporters
- (E) Answer not known

109. Assertion and Reason

Assertion [A] : Break-even chart merely depicts the relationship between sales and expenses in such a way as to show at what volume revenues exactly cover expenses

Reason [R]: The Break-even chart shows that at any lesser volume of Sale, the company would suffer a loss and at a greater volume of sale it would enjoy a profit.

- (A) Both [A] and [R] are true but [R] is not the correct explanation of [A]
- ~~(B)~~ Both [A] and [R] are true and [R] is the correct explanation of [A]
- (C) [A] is false but [R] is true
- (D) [A] is true but [R] is false
- (E) Answer not known

110. Assertion and Reason

Assertion [A] : The Laissez – faire style of leadership depends on the leader to provide external motivation.

Reason [R]: The Leader principally assumes the role of group member and supply's materials and information whenever asked, with minimum control.

- (A) [A] and [R] are true but [R] is the correct explanation of [A]
- (B) [A] and [R] are true and [R] is not the correct explanation of [A]
- (C) [A] is true but [R] is false
- ~~(D)~~ [A] is false but [R] is true
- (E) Answer not known

111. Which of the following is true about F.W. Taylor?

- (i) Classical approach
- (ii) Scientific management
- (iii) Systems approach
- (A) (i) only
- ~~(B)~~ (i) and (ii) only
- (C) (i) and (iii) only
- (D) (ii) and (iii) only
- (E) Answer not known

112. Choose the correct answer.

Referred to which author is known to be “The father of modern management theory”?

- ~~(A)~~ Henry Fayol
- (B) Max Weber
- (C) Frederick W. Taylor
- (D) Henry L. Gantt
- (E) Answer not known

113. In Project evaluation, “to listen to community people to determine what type of out reach programme was beneficial,” which of the following method is used?

- (A) Vulnerability Assessment
- (B) Cost benefit analysis
- ~~(C)~~ Focus Group Discussion
- (D) Environmental Impact Assessment
- (E) Answer not known



114. Analysis of Focus group data involves in the following steps.

- (A) Indexing, Management, interpretation
- (B) Interpretation, Indexing, Management
- (C) Management, discussion, follow up
- (D) Written report, Evaluation, discussion
- (E) Answer not known

115. Quality of Project Appraisal depends on

- (A) Quality of data, cost and benefits
- (B) Underestimation of costs
- (C) Over estimation of benefits
- (D) Approval of the project
- (E) Answer not known

116. Which one of the following is not correct for Logical Framework Analysis?

- (A) Preparatory Analysis
- (B) Problem Analysis
- (C) Stakeholder Analysis
- (D) Potential Assessment
- (E) Answer not known

117. What is a critical path in CPM?

- (1) It is the shortest path
- (2) It is the longest path
- (3) It is an intersecting path
- (4) It is nodes that are connected in between
- (A) 2, 3, 1, 4
- ~~(B)~~ 1, 2, 3, 4
- (C) 3, 2, 1, 4
- (D) None of the above
- (E) Answer not known

118. Which of the following does not belong to Formative Evaluation approach?

- (A) Ongoing
- (B) Quantitative
- ~~(C)~~ Goal-free
- (D) Problem-orientation
- (E) Answer not known

119. Method of forecasting used for demand forecasting

- (A) Incentive Sources
- (B) Depreciation
- ~~(C)~~ Unrealistic Assumptions
- (D) Raw material
- (E) Answer not known

120. Which of the following information is not sought through market survey?
- (A) Total demand and rate of growth of demand
  - (B) Motive of the buying
  - (C) Socio–Economic characteristic of buyer
  - ~~(D)~~ Psychological well being of buyers
  - (E) Answer not known
121. \_\_\_\_\_ refers to the process of analyzing data according to commonalities, relationships and differences across a data set.
- ~~(A)~~ Thematic analysis
  - (B) Transcription
  - (C) Categorization
  - (D) Thematic coding
  - (E) Answer not known
122. Which one of the following is a type of personality test used for knowing a person's personality by using ambiguous pictures or objects?
- (A) Observation
  - ~~(B)~~ Projective Technique
  - (C) Case study
  - (D) Focus Group Discussion
  - (E) Answer not known

123. "Case study is a method of exploring and analysis of life of a social unit, be that a person, a family, an institution, cultural group or even entire community". This definition was given by
- (A) Goode and Hatt
  - (B) Bleasanz
  - ~~(C)~~ P.V. Young
  - (D) Davies
  - (E) Answer not known
124. What does TAT stands for?
- (A) Thematic Appreciation Test
  - ~~(B)~~ Thematic Apperception Test
  - (C) Thematic Appreciation Tool
  - (D) Thematic Apperception Tool
  - (E) Answer not known
125. \_\_\_\_\_ is the power of knowing (or) the knowledge obtained without recourse to inference (or) reasoning
- (A) Tenacity
  - ~~(B)~~ Intuition
  - (C) Authority
  - (D) Scientific attitude
  - (E) Answer not known
126. A complete Enumeration of all items in the population is known as
- ~~(A)~~ Census
  - (B) Quota Sampling
  - (C) Convenient Sampling
  - (D) Deliberate Sampling
  - (E) Answer not known

127. In a Descriptive / Diagnostic study the first step is

- (A) hypothesis testing
- ~~(B)~~ to specify the objectives with sufficient precision to ensure data collected are relevant
- (C) to avoid Replication
- (D) to understand the behaviour towards the problem considered
- (E) Answer not known

128. This principle of the experimental design indicates that one should design or plan the experiment in such a way that the variations caused by extraneous factors can all be combined under the general heading of 'Chance'.

- (A) The Principle of Replication
- ~~(B)~~ The Principle of Randomization
- (C) The Principle of Local Control
- (D) The Principle of Informal experiment
- (E) Answer not known

129. Which of the following statements are incorrect about hypothesis?

- (i) It is considered as a principal instrument in research
  - (ii) It will suggest new experiments
  - (iii) It is a tested statement
  - (iv) Only chi-square test can test hypothesis
- (A) (i), (ii), (iii), (iv)
  - (B) (i), (iii) (iv)
  - (C) (ii) and (iv)
  - ~~(D)~~ (iii) and (iv)
  - (E) Answer not known

130. Which of the following hypothesis cannot be verified and illegitimate?
- (A) False hypothesis
  - (B) Null hypothesis
  - ~~(C)~~ Barren hypothesis
  - (D) Research hypothesis
  - (E) Answer not known
131. Which type of research is studying a small number of subjects through extensive and prolonged engagement to develop patterns and relationships of meaning?
- ~~(A)~~ Phenomenological Research
  - (B) Narrative Research
  - (C) Ethnographic Research
  - (D) Epidemiological Research
  - (E) Answer not known
132. \_\_\_\_\_ comprises two research strategies (i) Non – participant observation (ii) participant observation
- (A) Participant Observation inquiry
  - ~~(B)~~ Ethnographic methodology
  - (C) Anthropological study
  - (D) Population study
  - (E) Answer not known

133. In the words of \_\_\_\_\_, social research is the systematic method of discovering new facts or of verifying old facts, through sequence, inter-relationship, casual explanations and the natural laws which cover them.

- (A) P. Ramachandran
- ~~(B)~~ Pauline V. Young
- (C) Allen Rubin and Earl Babbie
- (D) P. Saravanavel
- (E) Answer not known

134. Which of the following is not a part of Research Ethics?

- ~~(A)~~ Acceptance
- (B) Informed Consent
- (C) Confidentiality
- (D) Trust and Protection
- (E) Answer not known

135. Correct estimations among the following are:

(i)  $R^2 = \text{Explained sum of squares} / \text{Total sum of squares}$ .

(ii)  $R^2 = 1 - \frac{\text{Explained sum of squares}}{\text{Total sum of squares}}$

(iii)  $R^2 = \frac{\text{Residual sum of squares}}{\text{Total sum of squares}}$

(iv)  $R^2 = 1 - \frac{\text{Residual sum of squares}}{\text{Total sum of squares}}$

(A) (i), (ii), (iii), (iv)

(B) (i), (ii) and (iv) only

(C) (ii) and (iii) only

~~(D)~~ (i) and (iv) only

(E) Answer not known

136. In classical linear regression model,  $\text{cov}(u_i, u_j) = 0, i \neq j$  refers to the assumption of

(A) Homoscedasticity

~~(B)~~ No auto correlation

(C) No multicollinearity

(D) Disturbance term

(E) Answer not known



137. Which one of the following is most widely used measure of dispersion of a series
- (A) Range
  - ~~(B)~~ Standard deviation
  - (C) Average
  - (D) Percentage
  - (E) Answer not known
138. This type of research relies on experience or observation alone and is data-based
- (A) Descriptive research
  - (B) Fundamental research
  - (C) Qualitative research
  - ~~(D)~~ Empirical research
  - (E) Answer not known
139. An example for comparative scaling technique in research design is
- (A) Graphic rating
  - (B) Likert scaling
  - ~~(C)~~ Rank order
  - (D) Staple scale
  - (E) Answer not known

140. When a hypothesised relationship is to be tested by scientific method, it is called as
- ~~(A)~~ Research hypothesis
  - (B) Scientific hypothesis
  - (C) Null hypothesis
  - (D) Alternate hypothesis
  - (E) Answer not known
141. Which of the following are not the advantages of international trade?
- (A) Increased output
  - (B) Larger size of market
  - (C) Optimum allocation of resources
  - ~~(D)~~ Varieties of goods
  - (E) Answer not known
142. The following one is not a main component under Agreement On Agriculture (AOA)
- (A) Market Access
  - (B) Domestic Support
  - (C) Export Subsidy
  - ~~(D)~~ Quality Control
  - (E) Answer not known

143. The following economists propounded the idea of refundable deposits in cases where detection of environmental damages are not possible or extremely difficult.
- (A) R.H. Coase and Marshall
  - (B) J.H. Dales and Keynes
  - ~~(C)~~ Robert Solow and Edwin Mills
  - (D) Amartya Sen and Phillip Kotler
  - (E) Answer not known
144. When the action of one agent directly affect the environment of another agent, it is called as
- ~~(A)~~ Externality
  - (B) Causation
  - (C) Environmentalism
  - (D) Pollution
  - (E) Answer not known
145. A larger percentage of land under private ownership and a low level of forest area per capita exists in these states.
- (A) Gujarat and Karnataka
  - (B) Orissa and Tamil Nadu
  - ~~(C)~~ Punjab and Haryana
  - (D) Bihar and Tripura
  - (E) Answer not known

146. The arrival and settlement of some organisms on the base area is called
- (A) Nudation
  - (B) Migration
  - ~~(C)~~ Invasion
  - (D) Evolution
  - (E) Answer not known
147. Which of the following is not a type of property rights approach according to J.H. Dales?
- (A) Exclusive Property Right
  - (B) Status or functional ownership
  - ~~(C)~~ Inclusive Property Right
  - (D) Right to use a public utility
  - (E) Answer not known
148. The effects of floods, earthquakes and famines on a time series are classified under
- (A) Seasonal variations
  - (B) Short term variations
  - (C) Cyclical variations
  - ~~(D)~~ Irregular variations
  - (E) Answer not known
149. Qualitative response regression models refers to models in which
- (A) the dependent variable is Quantitative
  - (B) the independent variables alone are qualitative
  - ~~(C)~~ the dependent variable is Qualitative
  - (D) the dependent variable is measured in ratio scale
  - (E) Answer not known

150. If a qualitative regressor in a dummy variable regression model has  $m$  categories, to avoid dummy variable trap we need to introduce in the model.
- (A) only  $m$  number of dummy variables.
  - ~~(B)~~ only  $(m - 1)$  number of dummy variables.
  - (C) only  $(m + 1)$  number of dummy variables.
  - (D) only  $(m \times 2)$  number of dummy variables.
  - (E) Answer not known
151. A time series sample Data is considered as stationary if the following characteristics of the series are time invariant
- (A) Mean
  - (B) Variance
  - (C) Covariance
  - ~~(D)~~ All of the above
  - (E) Answer not known
152. Test statistic used to test stationarity of a time series is
- ~~(A)~~ Augmented Dickey–Fuller Test (ADF Test)
  - (B) Engel – Granger test
  - (C) Error Correction Mechanism
  - (D) F–test
  - (E) Answer not known

153. Which of the following statement is 'NOT TRUE' about regression model in the presence of multi collinearity
- (A) 't' ratio of coefficients tends to be statistically insignificant
  - (B)  $R^2$  can be very high
  - ~~(C)~~ OLS estimators are not BLUE
  - (D) OLS estimators are sensitive to small changes in the data.
  - (E) Answer not known
154. The meaning of the term Heteroscedasticity is
- (A) The variances of the error terms are constant
  - ~~(B)~~ The variances of the error terms are non-constant
  - (C) The variances of the dependent variable is constant
  - (D) The variances of the independent variable is constant
  - (E) Answer not known
155. If multicollinearity is perfect in a regression model, then the standard errors of the regression coefficients are
- (A) Deforminate
  - (B) Indeterminate
  - ~~(C)~~ Infinite
  - (D) Small negative value
  - (E) Answer not known

156. In a regression equation such as  $Y = \beta_0 + \beta_1 x + u$ , the error term  $u$  represents
- (A) Factors that affect the regressand and taken into account explicitly
  - (B) Factors that affect the regressor and taken into account explicitly
  - ~~(C)~~ Factors that affect the regressand and not taken into account explicitly
  - (D) Factors that affect the regressor and not taken into account explicitly.
  - (E) Answer not known
157. Regression analysis is concerned with the study of the dependence of
- (A) Explanatory variables on one (or) more dependent variables
  - ~~(B)~~ Dependent variable on one (or) more explanatory variables
  - (C) Both explanatory on other known variables
  - (D) Two known variables
  - (E) Answer not known
158. In the multiple regression model, the adjusted  $R^2$
- (A) Cannot be negative
  - ~~(B)~~ Will never be greater than regression  $R^2$
  - (C) Equals the square of the rank correlation coefficient  $r$
  - (D) Cannot decrease when an additional Explanatory variable is added
  - (E) Answer not known

159. In partial correlation we study the effect of one independent variable on the dependent variable
- (A) By keeping the effect of other independent variables constant
  - ~~(B)~~ By excluding the effect of other independent variables
  - (C) By squaring the effects of other independent variables
  - (D) By multiplying the effect of other independent variables
  - (E) Answer not known
160. If for a set explanatory variables  $X_2$  and  $X_3$ , the coefficient of correlation is equal to 1, this means that between  $X_2$  and  $X_3$ , there exists
- (A) No collinearity
  - (B) Low level of collinearity
  - ~~(C)~~ Perfect collinearity
  - (D) Very high collinearity
  - (E) Answer not known
161. A cross section data is the
- (A) Data collected on variables over a period of time
  - ~~(B)~~ Data collected on variables at a point of time across observations
  - (C) Data collected across different years
  - (D) Data collected on variables across different or same country in different time periods
  - (E) Answer not known



162. Bibliography is a must for the research report if it uses
- (A) Primary data from census
  - ~~(B) Secondary data~~
  - (C) Primary data from sampling
  - (D) Primary data from Questionnaire
  - (E) Answer not known
163. In academic Research suggestions that broaden or test understanding of the subject area is called as
- (A) Second study
  - ~~(B) Recommendations~~
  - (C) Thesis
  - (D) Report
  - (E) Answer not known
164. The process of inclusion of an item or question in a research by linking it with the objective of the study is
- ~~(A) face validity~~
  - (B) unit inclusion
  - (C) scaling
  - (D) interval design
  - (E) Answer not known

165. The maximum probability of committing type I error, which specified in a test is known as

- ~~(A)~~ the level of significance
- (B) hypothesis test
- (C) statistical test
- (D) chi-square test
- (E) Answer not known

166. In Social Sciences and descriptive research, observation means

- (A) Questions directly (or) indirectly connected
- (B) Advance to the enquiry, pretested and put in printed form
- ~~(C)~~ Careful and systematic watching and recording of facts as they occur
- (D) Collect information and transmit it to the enumerator
- (E) Answer not known

167. Usually Published data are available in

- ~~(A)~~ books, magazines and newspaper
- (B) interviews data
- (C) observation data
- (D) investigation data
- (E) Answer not known

168. Choose the correct answer

The theory of sampling is based on the following principles:

- (i) Statistical regularity
  - (ii) Inertia of large number
  - (iii) Accuracy
  - (iv) Hypothetical
  - (v) theoretical
- (A) (i), (ii) and (iii) correct  
(B) (iii), (iv) and (v) correct  
~~(C) (i) and (ii) correct~~  
(D) (ii), (v) and (iv) correct  
(E) Answer not known

169. Statistical constants of the population are called as

- (A) Variables
- (B) Parameters
- ~~(C) Population~~
- (D) Samples
- (E) Answer not known

170. The general tendency of a time series data to increase (or) decline (or) remain more (or) less constant over a long period of time is called

- (A) Seasonal variation
- (B) Cyclical fluctuation
- ~~(C) Secular trend~~
- (D) Irregular variations
- (E) Answer not known

171. When was bilateral and multilateral tariff method dropped?
- (A) May 4, 1954
  - ~~(B) May 4, 1964~~
  - (C) May 4, 1974
  - (D) May 4, 1984
  - (E) Answer not known
172. Which one of the following may cause short-term temporary disequilibrium in the balance of payments?
- (A) economic transition
  - ~~(B) monsoon failure~~
  - (C) change in monetary failure
  - (D) change in technology
  - (E) Answer not known
173. Name the segment of the money market where borrowing and lending of funds take place on overnight basis
- (A) open money market
  - (B) standing money market
  - (C) marginal standing facility
  - ~~(D) call money market~~
  - (E) Answer not known
174. One important sub-market of the Indian money market is the
- (A) Bond market
  - ~~(B) Call money market~~
  - (C) Capital market
  - (D) Product market
  - (E) Answer not known

175. \_\_\_\_\_ is the basic to the phenomenon of black money generation.

- (A) Tax benefit
- ~~(B)~~ Tax evasion
- (C) Taxable capacity
- (D) Tax Incidence of tax
- (E) Answer not known

176. With the rise in inflation, lending institutions feel the pressure of

- (A) Lower lending
- ~~(B)~~ Higher lending
- (C) Stagnation lending
- (D) Decline in lending
- (E) Answer not known

177. \_\_\_\_\_ is a tax on the value added to goods in the process of production and distribution.

- (A) MOTVAT
- ~~(B)~~ VAT
- (C) GST
- (D) IT
- (E) Answer not known

178. What was the real magnitude of actual public sector outlay in the Eleventh Five Year Plan (2007-12)?

- (A) 8,17,000 crores
- (B) 14,44,000 crores
- (C) 8,59,200 crores
- ~~(D)~~ 36,44,718 crores
- (E) Answer not known

179. According to 55<sup>th</sup> round NSSO survey the poverty ratio in rural areas is estimated to be
- (A) 26.10 percent                      ~~(B) 29.09 percent~~  
(C) 30.12 percent                      (D) 23.62 percent  
(E) Answer not known
180. The basic weakness in Employment Performance during XI plan is
- ~~(A)~~ Failure in creating sufficient volume of high quality Employment  
(B) Poor standard of living  
(C) Failure to increase income and expenditure  
(D) Poor state of trade conditions  
(E) Answer not known
181. Economics have measured the social indicators for constructing composite indices of human development.
- (a) Physical Quality of Life Index (PQLI)  
(b) Gross National Product (GNP)  
(c) Human Development Index (HDI)  
(d) United Nations Development programme(UNDP)
- (A) (a) only  
(B) (a) and (b) only  
~~(C)~~ (c) and (a) only  
(D) (b) and (d) only  
(E) Answer not known

182. Most urban infrastructure services are provided by municipal corporations and municipalities who fund their requirements largely by
- (A) Loans and grants from Central Govt.
  - (B) Loans and grants from State Govt.
  - ~~(C)~~ Loans and grants from Central and State Govt.
  - (D) Loans and grants from World Bank
  - (E) Answer not known
183. \_\_\_\_\_ aspect of industrial policy which affect industrial investment and production.
- (A) Industrial Price Policy
  - (B) Industrial Labour Policy
  - ~~(C)~~ Industrial Licensing Policy
  - (D) Industrial Production Policy
  - (E) Answer not known
184. The greatest sufferers in the process of agricultural revolution are
- (A) Farm labourers
  - ~~(B)~~ Landless labourers
  - (C) Small farmers
  - (D) Landlords
  - (E) Answer not known
185. The purpose of a regulated market is
- (A) Eradicate poverty
  - ~~(B)~~ Eliminate unhealthy market practice
  - (C) Reduce the prices
  - (D) Ensure the investment
  - (E) Answer not known





190. If the joint distribution function  $F_{xy}(x, y)$  of two-dimensional continuous random variable then  $\frac{\partial^2 F(x, y)}{\partial x \partial y} =$

- ~~(A)~~  $f(x, y)$  (B)  $f(x)$   
(C)  $f(y)$  (D)  $f(x/y)$   
(E) Answer not known

191. If X follows Poisson distribution P (4) then  $E(X^2)$  is

- ~~(A)~~ 20 (B) 16  
(C) 25 (D) 4  
(E) Answer not known

192. If the odds against manager settling the wage dispute with the workers are 8:6 and odds in favour of manager Y settling the same dispute are 14:6. Then the probability that the dispute will be settled is

- (A)  $\frac{94}{105}$  (B)  $\frac{101}{105}$   
(C)  $\frac{32}{105}$  ~~(D)~~  $\frac{73}{105}$   
(E) Answer not known

193. Mutually exclusive events are always \_\_\_\_\_ events.

- (A) Independent ~~(B)~~ Not independent  
(C) Pairwise independent (D) Mutually independent  
(E) Answer not known

194. For  $n$ -natural numbers (like 1, 2, 3, ...) the standard deviation can be compacted by :

(A)  $\sigma = \sqrt{\frac{1}{24} (n^4 - 1)}$

(B)  $\sigma = \sqrt{\frac{1}{12} (1 - n^2)}$

~~(C)~~  $\sigma = \sqrt{\frac{1}{12} (n^2 - 1)}$

(D)  $\sigma = \sqrt{\frac{1}{4} (n - 1)}$

(E) Answer not known

195. In case of positive skewed distribution, the extreme values lie in the

(A) Middle

(B) Left tail

~~(C)~~ Right tail

(D) Anywhere

(E) Answer not known

196. Out of all measures of dispersion, the easiest one to calculate is :

(A) Standard deviation

~~(B)~~ Range

(C) Variance

(D) Quartile deviation

(E) Answer not known

197. How will the Arithmetic mean be affected by adding a constant 'a' to every item?

(A)  $x - a$

(B)  $x^2 + a$

~~(C)~~  $\bar{x} + a$

(D)  $x + a$

(E) Answer not known

198. If the average mark secured by 36 students was 52. But it was discovered that an item 64 was misread as 46. The correct mean of marks is

(A) 50.5 marks

(B) 45.5 marks

(C) 61.5 marks

~~(D)~~ 52.5 marks

(E) Answer not known

199. An arrangement of data values together with the number of occurrences forms :

- (A) a frequency distribution
- (B) a table
- (C) a frequency curve
- (D) a cumulative distribution
- (E) Answer not known

200. Primary data is preferred over secondary data where:

- (A) Accuracy is important
- (B) Time available is short
- (C) Sufficient finance is not available
- (D) Much accuracy is not required
- (E) Answer not known