

**GENERAL ENGLISH**

(A) Choose the word or phrase that is most nearly opposite in meaning :

1. Insipid  
(A) Tasty (B) Stupid  
(C) Discreet (D) Feast
2. Cajole  
(A) Confide (B) Disclose  
(C) Dissuade (D) Detract
3. Acumen  
(A) Intelligence (B) Imbecility  
(C) Potentiality (D) Unfamiliarity  
(E) Superficiality
4. Sanguine  
(A) Bloody (B) Gloomy  
(C) Happy (D) Thin  
(E) Red-faced
5. Truculent  
(A) Peaceful (B) Fawning  
(C) Automotive (D) Unruly  
(E) Fantastic

(B) Indicate the word which has the most near meaning – synonym :

6. Annihilate  
(A) Destroy (B) Entrain  
(C) Forward (D) Testify
7. Wretched  
(A) Poor (B) Foolish  
(C) Insane (D) Strained  
(E) Transfer
8. Grubby  
(A) New (B) Unwashed  
(C) Muddy (D) Wet
9. Foment  
(A) Extirpate (B) Provoke  
(C) Isolation (D) Abrasion
10. Benign  
(A) Kind (B) Malevolent  
(C) Win (D) Friendly

(C) Choose the correct word or phrase :

11. I cannot remember where \_\_\_\_\_ my coat  
(A) I would have left (B) Did I leave  
(C) I left (D) Was I made to leave
12. It has been raining for the past five days. I wish it \_\_\_\_\_  
(A) stopped to rain (B) stopped raining  
(C) would stop raining (D) were to stop raining
13. We should \_\_\_\_\_ into English  
(A) have this passage translated (B) have this passage translated it  
(C) have this passage be translated (D) have this passage translate

(D) Fill in the gaps with the missing words choosing from the alternative :

14. If you examine his case \_\_\_\_\_ (in a dispassionate manner) you will find him innocent.  
(A) obstinately (B) obscurely  
(C) objectively (D) obviously
15. Modern science has made \_\_\_\_\_ (unbelievable) advance  
(A) inevitable (B) incredulous  
(C) incredible (D) inestimable

(E) Choose the most idiomatic and appropriate word/phrase :

16. I have already been humbled down. Do you want to \_\_\_\_\_  
(A) flag a dead horse (B) whip a wounded horse  
(C) kill a dead horse (D) curse me more?
17. Why do you give all the unnecessary details? Put it \_\_\_\_\_  
(A) in a concise manner (B) in a nut shell  
(C) in short (D) in proper manner

(F) Find out the error :

18. When the thief entered the house the watchman on duty was fast asleep. No error.  
(A) (B) (C) (D)
19. He overcame with sorrow when he heard the sad news of his failure. No error.  
(A) (B) (C) (D)
20. An immediate action has awaited in order to complete our work in time. No error.  
(A) (B) (C) (D)

**MATHS**

21. Which one of the following numbers is the largest?
- (A)  $(2+2+2)^2$  (B)  $\{(2+2)^2\}^2$   
(C)  $(2 \times 2 \times 2)^2$  (D)  $2+2^2+(2)^2$   
(E)  $(4)^3$
22. If the radius of a circle is increased by 6%, then the area of that circle is increased by
- (A) 0.36% (B) 3.6%  
(C) 6% (D) 12.36%  
(E) 36%
23. Two persons ride towards each other from two places 55 km apart, one riding at 12 km per hour and the other 10 km per hour. When will they be first 11 km apart?
- (A) 1 hour (B)  $1\frac{1}{2}$  hours  
(C) 2 hours (D)  $2\frac{1}{2}$  hours  
(E) None of these
24. The maximum displacement of a vibrating body from its mean position is called
- (A) gyration (B) wavelength  
(C) its velocity alone (D) both mass and velocity
25. The value of avogadro's constant is
- (A)  $6.022 \times 10^{23}$  per mole (B)  $58.04 \times 10^{-2}$  per mole  
(C)  $69.51 \times 10^{-18}$  per mole (D)  $6.022 \times 10^{14}$  per mole
26. Find the value of :
- $8.55 \times 8.55 - 2 \times 8.55 \times 3.55 + 3.55 \times 3.55$
- (A) 27.5 (B) 20  
(C) 25 (D) 36

27. If four examiners can examine a certain no. of answer books in 8 days by working 5 hrs a day, for how many hours a day would 2 examiners have to work in order to examine twice the number of answer books in 28 days?
- (A) 6 hours (B)  $7\frac{1}{2}$  hours  
(C) 8 hours (D) 9 hours
28. In an election, where there are two candidates only, the candidate who gets 43% of the votes is rejected by a margin of 420 votes. The total number of votes polled was
- (A) 3000 (B) 3500  
(C) 2500 (D) 2800
29. H.C.F. of two numbers is 14 and their difference is 28. The numbers are
- (A) 42, 70 (B) 14, 56  
(C) 46, 88 (D) 42, 84
30. A cistern is normally filled in 8 hours but takes 2 hours longer to be filled because of a leak in the bottom. If the cistern is full, the leak will empty in
- (A) 20 hours (B) 36 hours  
(C) 40 hours (D) None
31. If  $P(32, 6) = k C(32, 6)$  then what is the value of  $k$ ?
- (A) 6 (B) 32  
(C) 120 (D) 720
32. When a card is drawn from a well shuffled pack of cards, what is the probability of getting a Queen?
- (A)  $\frac{2}{13}$  (B)  $\frac{1}{13}$   
(C)  $\frac{1}{26}$  (D)  $\frac{1}{52}$
33. Which one of the following is correct?
- (A)  $A \times (B - C) = (A - B) \times (A - C)$  (B)  $A \times (B - C) = (A \times B) - (A \times C)$   
(C)  $A \cap (B \cup C) = (A \cap B) \cup C$  (D)  $A \cup (B \cap C) = (A \cup B) \cap C$

34. What is the value of  $\cos 10^\circ + \cos 110^\circ + \cos 130^\circ$ ?
- (A) -1 (B) 0  
(C) 1 (D) 2
35. What is the sum of focal radii of any point of an ellipse equal to?
- (A) length of latus rectum (B) length of major axis  
(C) length of minor axis (D) length of semi-latus rectum
36. What is the angle between the planes  $2x - y + z = 6$  and  $x + y + 2z = 3$ ?
- (A)  $\pi/2$  (B)  $\pi/3$   
(C)  $\pi/4$  (D)  $\pi/6$
37. If 7 points out of 12 are in the same straight line then what is the number of triangles formed?
- (A) 84 (B) 175  
(C) 185 (D) 201
38. The numerical value of the perimeter of a square exceeds that of its area by 4, what is the side of the square?
- (A) 1 unit (B) 2 unit  
(C) 3 unit (D) 4 unit
39. Which one of the following pairs is not correctly matched?
- (A)  $\sin 2\pi : \sin(-2\pi)$  (B)  $\tan 45^\circ : \tan(-315^\circ)$   
(C)  $\cot(\tan^{-1} 0.5) : \tan(\cot^{-1} 0.5)$  (D)  $\tan 42^\circ : \tan(-60^\circ)$
40. The area of a square is 225 sq.m. Then the perimeter of the square is
- (A) 50 (B) 15  
(C)  $15\sqrt{2}$  (D) 60

## COMPUTERS

41. A local storage register in the CPU which contains the address of the next instruction to be executed is referred as
- (A) Key register (B) Address register  
(C) Password (D) None of the above
42. ALGOL is the
- (A) High-level language (B) Low-level language  
(C) Machine language (D) None of these
43. The time interval between the instant at which data is called from a storage device and the instant delivery begins in
- (A) Access time (B) Delivery time  
(C) Service time (D) None of these
44. A computer that operates on data which is in the form of continuously variable physical quantities
- (A) Digital computer (B) Analog computer  
(C) Mechanical computer (D) None of these
45. Auxiliary storage is
- (A) Secondary storage (B) Primary storage  
(C) Processing device (D) None of the above
46. ASCII-8 is
- (A) an extended version of ASCII-7 (B) a 8-bit code  
(C) both (A) and (B) are true (D) both (A) and (B) are false

47. A statement that translates mnemonic statements into executable instruction is referred as
- (A) software
  - (B) assembler
  - (C) translator
  - (D) none of these
48. Bubble memory is
- (A) non volatile
  - (B) volatile
  - (C) permanent
  - (D) none of the above
49. Cache memory is a
- (A) Small buffer storage
  - (B) Permanent storage
  - (C) Main memory
  - (D) None of these
50. A unit for measuring data transmission speed that describes the capacity of a carrier is referred as
- (A) Band
  - (B) Bit
  - (C) Bond
  - (D) Batch
51. BIOS is an abbreviation for
- (A) Binary Input/Binary Output
  - (B) Binary Synchronous
  - (C) Binary Digit
  - (D) None of the above
52. A number system with a base of two is referred as
- (A) Uninary number system
  - (B) Binary number system
  - (C) Octal number system
  - (D) None of these
53. Communication protocol is
- (A) A set of rules and procedures established to interconnect different computers and communicate between them
  - (B) An entry in a computer programme for the purpose of documentation or explanation
  - (C) A medium through which data (in the form of electrical signals) is transferred from one location to another
  - (D) None of the above

54. Cyber space is
- (A) a synonym for the internet
  - (B) a term used by author William Gibson
  - (C) the shared imaginary reality of computer network
  - (D) all of the above
55. Direct Access storage device is also referred as
- (A) DASD
  - (B) DRDO
  - (C) DISD
  - (D) None of these
56. A meaningful collection of related characters is referred as
- (A) Data element
  - (B) Information
  - (C) Knowledge
  - (D) None of these
57. A system software package that converts a high level language program to machine language is known as
- (A) Ami Pro
  - (B) Compiles
  - (C) Comment
  - (D) Collate
58. Document reader is
- (A) an optical input device used to read documents
  - (B) a device that arrange the documents
  - (C) a device that is used to edit documents
  - (D) none of these
59. A storage device when the access time is effectively independent of the location of the data is referred as
- (A) Direct access
  - (B) Secondary access
  - (C) Primary storage
  - (D) None of these
60. Laser printer is an example of
- (A) Electrostatic printer
  - (B) Electro-thermal printer
  - (C) Impact printer
  - (D) None of these



**REASONING**

Find out the correct choice to replace the question mark

61. House : Roof :: Earth : ?  
(A) Mountain (B) Air  
(C) Sky (D) Atmosphere  
(E) Pole
62. Meal : Menu :: Library : ?  
(A) Books (B) Librarian  
(C) Catalogue (D) Shelf  
(E) Room
63. A KOPT is related to AEFJ, similarly QUVZ is related to  
(A) GLKP (B) GKLP  
(C) HKLP (D) HKQL  
(E) GPKL
64. A NET is related to 13227 similarly YAM is related to  
(A) 25113 (B) 22614  
(C) 14520 (D) 25614  
(E) 22416
65. A 'Heart' is related to 'Blood', 'Lungs' are related to  
(A) Oxygen (B) Chest  
(C) Purification (D) Air  
(E) Breathing
66. Which one of the pairs is different from the rest of the four pairs?  
(A) Society - member (B) Office - worker  
(C) Government - public (D) Team - player  
(E) School - student

67. Find out the odd one :  
Chennai, Delhi, Vishakapatnam, Cochin, Bombay  
(A) Chennai (B) Vishakapatnam  
(C) Cochin (D) Bombay  
(E) Delhi
68. In a certain code 'BACK' is written as 'ONPX'. How would 'HAND' be written in that code?  
(A) UNAQ (B) NUAQ  
(C) OPNX (D) QANU  
(E) None of these
69. C and N are sisters. N is the mother of B. R is the son of B. If D is the son of 'C'. Which of the following relations is correct?  
(A) There are only two ladies among C, N, B, R and D  
(B) R and D are maternal cousins  
(C) D and B are brothers  
(D) Nothing can be said  
(E) None of these
70. In the following alphabet, which letter is first in the middle between the 18th letter from the left and 10th letter from the right?  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
(A) Q (B) R  
(C) K (D) J  
(E) None of these

**SCIENCE**

71. Vinegar is an aqueous solution of  
(A) Oxalic acid (B) Citric acid  
(C) Acetic acid (D) Hydrochloric acid
72. Which one of the following is a 'man made' cereal not found in nature?  
(A) Dwarf wheat (B) Hybrid maize  
(C) Triticale (D) Soyabean

73. If father has blood group A and mother has blood group O. Which of the following blood groups may be found in their son?
- (A) B  
(B) AB  
(C) O  
(D) B, AB or O
74. Which one of the following animals stores water in intestine?
- (A) Moloch  
(B) Camel  
(C) Zebra  
(D) Uromastrix
75. The colour of an opaque object is due to the colour it
- (A) absorbs  
(B) refracts  
(C) reflects  
(D) scatters
76. Boyle's law is applicable at
- (A) constant pressure  
(B) constant temperature and pressure  
(C) constant temperature  
(D) constant pressure but variable temperature
77. For ice, specific latent heat of fusion is
- (A) 80 cal/gm  
(B) 0.80 cal/gm  
(C) 800 cal/gm  
(D) None of the above
78. Type of signalling used in an electronic exchange is
- (A) Pulse signalling  
(B) Tone signalling  
(C) Both (A) and (B)  
(D) None of these
79. Tetraethyl lead is used as
- (A) Mosquito repellent  
(B) Pain killer  
(C) Fire extinguisher  
(D) Petrol additive
80. Mixed oxide fuel is used for which of the following
- (A) Nuclear reactors  
(B) Aeroplanes  
(C) Cryogenic engines  
(D) PSLV rockets

## INDIAN POLITY AND CONSTITUTION

81. The day to day administration of a Union Territory is looked after by
- (A) Council of Ministers (B) Lt. Governor  
(C) Governor (D) The President
82. The electorate system in India is based on
- (A) Adult franchise (B) Separate electorate  
(C) Indirect election system (D) Multivote system
83. Separation of the judiciary from the executive has been provided in one of the following parts of the constitution. Which is it?
- (A) the preamble  
(B) the fundamental rights  
(C) the directive principles of state policy  
(D) the seventh schedule
84. The first general election on the basis of adult suffrage was held in
- (A) 1947 (B) 1950  
(C) 1952 (D) 1956
85. The Indian Planning Commission was set-up in
- (A) 1948 (B) 1950  
(C) 1951 (D) 1955
86. A dispute relating to the election of the President of India shall be referred to
- (A) Election Commission (B) Parliament  
(C) Supreme Court (D) Union Cabinet

87. Who allocates portfolios among Ministers?
- (A) The Prime Minister
  - (B) The President at his discretion
  - (C) The President on the recommendation of the Prime Minister
  - (D) The Speaker of Lok Sabha
88. Article 360 of the constitution of India relates to
- (A) Presidents rule in State
  - (B) General emergency
  - (C) Election Commission
  - (D) Emergency
89. The Union Council of Ministers is collectively responsible to
- (A) Prime Minister
  - (B) Rajya Sabha
  - (C) President
  - (D) Lok Sabha
90. The Panchayati Raj system was adopted to
- (A) Make people aware of politics
  - (B) Decentralize the power of democracy
  - (C) Educate the farmers
  - (D) None of these

**GENERAL STUDIES**

91. Who among the following were popularly known as 'Red shirts'?
- (A) Congress Socialists
  - (B) Khudai Khidmatgars
  - (C) Members of the Azad Hind Fauz
  - (D) People led by Rani Gaidinliu
92. Who among the following Englishmen was a follower of Gandhiji in South Africa?
- (A) C.F. Andrews
  - (B) Polak
  - (C) Peterson
  - (D) None of these

93. Which of the following dams is not on Narmada river?  
(A) Indira-Sagar Dam (B) Maheshwar-Hydel Power Dam  
(C) Sardar Sarobar Dam (D) Koyna Power Project
94. Where are diamonds mined in India?  
(A) Golkunda in A.P. (B) Panna in M.P.  
(C) Neyveli in T.N. (D) Kolar in Karnataka
95. What is Green Gold?  
(A) Tea (B) Gold  
(C) Coffee (D) Rice
96. The state having the highest literacy rate among women in India is  
(A) Tamil Nadu (B) Kerala  
(C) West Bengal (D) Maharashtra
97. The recent Book 'Living History' is written by  
(A) Sonia Gandhi (B) Hillary Clinton  
(C) Sobha Dey (D) Salman Rushdie
98. B.C. Roy Award is given for  
(A) Journalism (B) Medicine  
(C) Music (D) Environment
99. The term 'double fault' is associated with which game  
(A) Squash (B) Rugby  
(C) Tennis (D) Football
100. Who was Miss India Universe 2009?  
(A) Miss Ami Vashi (B) Miss Swetha Vijay  
(C) Miss Ekta Chaudhury (D) None of the above