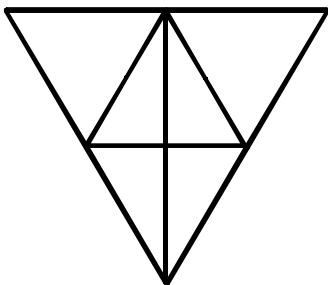


- 001 Which pair of singular and plural gender is incorrect?  
(A) Calf - Calves  
(B) Man - Men  
(C) Loaf - Loafs  
(D) Ox - Oxen
- 002 I shall have been writing letters for some time before you return is a \_\_\_\_\_.  
(A) future perfect continuous tense.  
(B) present perfect continuous tense.  
(C) future present tense.  
(D) simple future tense.
- 003 Find out the incorrect spelling.  
(A) Slavery  
(B) Pleader  
(C) Orator  
(D) Begger
- 004 Change of verbs in to nouns:  
Find out the correct pair  
(A) Act - Acting  
(B) Believe - Belief  
(C) Excite - Excited  
(D) Enjoy – Entertain
- 005 Select the correct sentence.  
(A) The cows as well as the bullocks is very useful.  
(B) He is a man who respect his parents.  
(C) It is I who are responsible for this loss.  
(D) Many a man have died for his country.
- 006 If today is Sunday, then three days from now will be \_\_\_\_\_.  
(A) Tuesday  
(B) Friday  
(C) Wednesday  
(D) Monday
- 007 If Pratap could be given a code number 1618120116, what code number can be given to NAVIN.  
(A) 73957614  
(B) 14289618  
(C) 19274651  
(D) 14122914
- 008 Six persons A, B, C, D, E and F are standing in a row. C and D are standing close to each other alongside E. B is standing beside A only. A is fourth from F. Who are standing on the extremes?  
(A) C and B  
(B) B and F  
(C) A and F  
(D) B and D

- 009 What will come in the place of the question mark (?) in the following series?  
 10000 – 6400 – 3600 – ?  
 (A) 2600  
 (B) 1600  
 (C) 1800  
 (D) 1200
- 010 Rohan got Rs 120/- as a half year interest on the investment of the Rs. 3000/-. What will be rate of interest?  
 (A) 6%  
 (B) 7%  
 (C) 9%  
 (D) 8%
- 011 A man said, “This girl is the wife of the grandson of my mother.” Who is the man to the girl?  
 (A) Father-in-Law  
 (B) Grand Father  
 (C) Father  
 (D) Brother
- 012 Find out the opposite of the word : Denial  
 (A) Refusal  
 (B) Available  
 (C) Acceptance  
 (D) Desirable
- 013 21 mango trees, 42 apple trees and 56 orange trees have to be planted in rows such that row contains the same number of trees of one variety only. Minimum number of rows in which the trees may be planted is \_\_\_\_\_?  
 (A) 20  
 (B) 18  
 (C) 19  
 (D) 17
- 014 Three of the following four words are alike in a certain way and one is different. Select the odd one.  
 (A) Optical reader  
 (B) Bifocals  
 (C) Spectacles  
 (D) Goggles
- 015 How many triangles are there in the figure given below?



- (A) 13  
 (B) 12  
 (C) 14  
 (D) 15

- 016 What does CPU Stand for?  
(A) Central Processing Unit.  
(B) Computer Processing Unit.  
(C) Central Peripheral Unit.  
(D) Central Program Unit.
- 017 Which programming language is known for its simplicity and readability?  
(A) Java  
(B) C++  
(C) Python  
(D) Assembly
- 018 What is quantum computing?  
(A) Traditional computing based on quantum mechanics  
(B) Computing using quantum bits (qubits)  
(C) Computing without binary code  
(D) Advanced Artificial Intelligence
- 019 What is the function of an SSD (Solid State Drive) in a computer?  
(A) Long-term storage.  
(B) Temporary storage for running programs.  
(C) Virtual machine emulation.  
(D) High speed data access.
- 020 What is the function of RAM in a computer?  
(A) Long-term storage  
(B) Data Input / Output  
(C) Temporary storage for running programs  
(D) File organization
- 021 What is the purpose of firewall in computer security?  
(A) Speed up internet connection.  
(B) Manage file permissions.  
(C) Prevent unauthorised access.  
(D) Scan for virus.
- 022 What is the purpose of a QR code?  
(A) Query Resolution  
(B) Quantitative Reporting  
(C) Quality Recognition  
(D) Quick Response
- 023 What is the significance of the term “Big Data”?  
(A) Large physical store storage  
(B) Massive computational power  
(C) Huge volumes of diverse data  
(D) Extensive network coverage
- 024 What is the main purpose of a version control system like Git?  
(A) Code optimization  
(B) Code execution  
(C) Code collaboration  
(D) Code compilation
- 025 What is the purpose of Cloud Computing?  
(A) Centralised data storage  
(B) Local file sharing  
(C) Offline processing  
(D) Physical server management

- 026 An astronaut in outer space will observe sky as  
 (A) White  
 (B) Black  
 (C) Blue  
 (D) Red
- 027 Which is considered as the biggest port of India?  
 (A) Kolkata  
 (B) Cochin  
 (C) Chennai  
 (D) Mumbai
- 028 The statement showing fort and place mentioned below. Which is not correct statement?  
 (A) Kangra fort - Himachal Pradesh  
 (B) Amer fort - Rajasthan  
 (C) Raigad fort - Maharashtra  
 (D) Golconda fort - Karnataka.
- 029 Forest parks and reserve and the states mentioned below which statement is not correct?  
 (A) Jim Corbett national park - Uttarakhand  
 (B) Nanmangalam reserved forest - Tamil Nadu  
 (C) Kakrail reserve forest - Rajasthan  
 (D) Amarambalam reserved forest - Kerala
- 030 Match the Dance and state of origin
- | Dance           | State             |
|-----------------|-------------------|
| 1. Bharatnatyam | a. Tamil Nadu     |
| 2. Kathak       | b. Uttar Pradesh  |
| 3. Kuchi Pudi   | c. Andhra Pradesh |
| 4. Katha Kali   | d. Kerala         |
- (A) 1 – B, 2 – C, 3 – D, 4 – A  
 (B) 1 – A, 2 – B, 3 – C, 4 – D  
 (C) 1 – C, 2 – D, 3 – A, 4 – B  
 (D) 1 – D, 2 – A, 3 – B, 4 – C
- 031 Wars of and parties are mentioned below. Which Pair is not correct?  
 (A) First battle of Tarain – Prithviraj and Mohamad Gori  
 (B) First battle of Panipat – Barar and Rana Sang  
 (C) Battle of Chausa – Sher Shah and Humayun  
 (D) Battle of Samugarh – Dara Shikoh and Mughals
- 032 The Gujarat Public University Act 2023, came into force on  
 (A) 8th October 2023  
 (B) 9th October 2023  
 (C) 10th October 2023  
 (D) 11th October 2023
- 033 Objectives of Public Universities are mentioned under which sections?  
 (A) Sec. 2  
 (B) Sec. 3  
 (C) Sec. 4  
 (D) Sec. 5
- 034 Officers of Private University are mentioned under which section of the Act?  
 (A) Sec. 7  
 (B) Sec. 8  
 (C) Sec. 6  
 (D) Sec. 5

- 035 Section and contents are mentioned below. Which pair is not correct?
- (A) Sec. 9 - The Chancellor  
 (B) Sec. 10 - Appointment of Vice-Chancellor  
 (C) Sec. 11 - Appointment of Registrar  
 (D) Sec. 13 - Officers etc. to be public servant
- 036 (1) The university grants commission (UGC) came in to existence on 28th Dec. 1955  
 (2) UGC became a statutory organisation by Act in 1958  
 (A) only 1 is correct  
 (B) only 2 is correct  
 (C) both 1 and 2 are correct  
 (D) both 1 and 2 are not correct
- 037 (1) UGC advises Central and State Government for development of Higher Education  
 (2) UGC is located in 4 Locations  
 (A) only 1 is correct  
 (B) only 2 is correct  
 (C) both 1 and 2 are correct  
 (D) both 1 and 2 are no correct
- 038 (1) All India council for Technical Education (AICTE) was set up in November 1945  
 (2) All India council for Technical Education Act passed in 1987  
 (A) both the statement 1 and 2 are correct  
 (B) only 1 is correct  
 (C) only 2 is correct  
 (D) both 1 and 2 are not correct
- 039 (1) Smart India Hackathon is for better product innovation and development of mindset for problem solving.  
 (2) SWAYAM is a platform for hosting all courses, to be accessed by anyone, anywhere at any time  
 (A) only 1 is correct  
 (B) only 2 is correct  
 (C) both 1 and 2 are correct  
 (D) both 1 and 2 are not correct
- 040 (1) The Pharmacy Act was enacted on 4/3/1948  
 (2) PCI was constituted on 9/9/49 under section 13 of the Act  
 (A) both 1 and 2 are correct  
 (B) both 1 and 2 are not correct  
 (C) only 1 is correct  
 (D) only 2 is correct
- 041 ગુજરાતી ભાષામાં નામના કેટલા પ્રકાર છે ?  
 (A) 8  
 (B) 7  
 (C) 6  
 (D) 5
- 042 નીચેના પૈકી કઈ સંધિ સ્વર સંધિ નથી ?  
 (A) સ્થળ + અંતર = સ્થળાંતર  
 (B) જળ + આશય = જળાશય  
 (C) રવિ + ઈન્દ્ર = રવીન્દ્ર  
 (D) સમ્ + ઈક્ષા = સમીક્ષા

- 043 નીચેના પૈકી સમાનાર્થી શબ્દોની કઈ જોડી યોગ્ય નથી ?  
 (A) અખિલ - આખુ, બધું  
 (B) અતિથિ - પરોણો  
 (C) અનિલ - ગર્વ, અહંકાર  
 (D) અરજ - અનુનય, વિનંતી
- 044 ઉચ્ચારણ કે વર્ણનુ સામ્ય હોય પરંતુ અર્થ અલગ હોય, તેવી કઈ જોડી યોગ્ય નથી ?  
 (A) અપેક્ષા - આશા # ઉપેક્ષા - અવગણના  
 (B) અનુસાર - પ્રમાણે # અનુસ્વાર - એક લિપિચિહ્ન  
 (C) અંસ - ભાગ # અંશ - ખભો  
 (D) ઈમાન - પ્રામાણિકતા # ઈનામ - બક્ષિસ
- 045 શબ્દ સમૂહ માટેના એક શબ્દની કઈ જોડી યોગ્ય નથી ?  
 (A) સાઠ વર્ષ પૂરા થતા ઉજવાતો ઉત્સવ - હીરક મહોત્સવ  
 (B) સો વર્ષ પૂરા થતા ઉજવાતો ઉત્સવ - શતાબ્દી ઉત્સવ  
 (C) પહેલા થઈ ગયેલું - અનુગામી  
 (D) બે મોટા સમુદ્રને જોડનાર ખાડી - સમુદ્રધુની
- 046 Which organisations scientists confirm 2023 as the hottest year ever recorded?  
 (A) European Union  
 (B) United Nations  
 (C) WHO  
 (D) NASA
- 047 Which country recently passed a bill prohibiting the consumption and sale of dog meat?  
 (A) China  
 (B) Tiwan  
 (C) Thailand  
 (D) South Korea
- 048 What is the name of indigenous assault rifle, launched by DRDO for the armed forces?  
 (A) Rakshak  
 (B) Ugram  
 (C) Nirbhay  
 (D) Shakti
- 049 Which international organisation introduced medicine code for Ayurveda, Siddha and Unani system as Part of the ICD-11 module-2  
 (A) UNESCO  
 (B) WHO  
 (C) UNICEF  
 (D) CDC
- 050 In which city of India, Prasadam the country's first hygienic food street was inaugurated by Union Health Minister?  
 (A) Indore  
 (B) Surat  
 (C) Ujjain  
 (D) Gwalior
- 051 In general, elevated temperature of the column in HPLC May lead to \_\_\_\_\_.  
 (A) Decrease in efficiency  
 (B) Increase in efficiency  
 (C) No change in efficiency  
 (D) Low resolution

- 052 Assay of Dibasic Calcium Phosphate is done through which of the following titration method  
(A) Non-aqueous  
(B) Iodometry  
(C) Permanganometry  
(D) Complexometry
- 053 Solvents which are chemically inert towards the drug are known as \_\_\_\_\_  
(A) Aprotic  
(B) Amphiprotic  
(C) Protophilic  
(D) Protogenic
- 054 Cerimetry is associated with which of the following titration method?  
(A) Precipitation  
(B) Acid base  
(C) Redox  
(D) Non-aqueous
- 055 How much amount of NaOH need to be dissolved to prepare 0.1M NaOH solution in water (1000ml)?  
(A) 4 mg  
(B) 4 gm  
(C) 40 mg  
(D) 40 gm
- 056 In limit test for lead in the given sample: color of lead dithizone complex is \_\_\_\_\_  
(A) Pink  
(B) Orange  
(C) Yellow  
(D) Violet
- 057 Ammoniated Mercury is \_\_\_\_\_  
(A) White amorphous powder  
(B) Silver liquid  
(C) White liquid  
(D) Pungent gas
- 058 Which of the following is not a detector used in flame emission photometers?  
(A) Photronic cell  
(B) Photovoltaic cell  
(C) Chromatogram  
(D) Photoemissive tube
- 059 The color of the filter in colorimetry is \_\_\_\_\_ to the color of the solution.  
(A) Similar  
(B) Opposite  
(C) Lighter  
(D) Darker
- 060 A system is said to obey Beer's Law, when a plot of Concentration Vs Absorbance gives \_\_\_\_\_ shape of graph.  
(A) Semi curved  
(B) Parabola  
(C) Sine wave  
(D) Straight line

- 061 The conductivity offered by a substance of 1 centimeter length and 1 square centimeter surface area is called \_\_\_\_\_.  
(A) Specific conductivity  
(B) Equivalent conductivity  
(C) Molar conductivity  
(D) None of the above
- 062 Which of the following is \_\_\_\_\_ C<sub>18</sub> column, used in chromatography?  
(A) Octyl silane column  
(B) Butyl silane column  
(C) Octyl decyl silane column  
(D) Octyl column
- 063 A hammer mill works on the principle of \_\_\_\_\_.  
(A) Impact and attrition  
(B) Impact only  
(C) Compression  
(D) Cutting and compression
- 064 Thermolabile substances solutions can be sterilized using \_\_\_\_\_ preferably from the following methods.  
(A) Membrane filter  
(B) Autoclave  
(C) Dry heat  
(D) Heating with chemicals
- 065 Theobroma oil is used in the preparation of which of the following?  
(A) Elixir  
(B) Capsule  
(C) Suppository  
(D) Emulsion
- 066 Which of the following test micro-organism is used for the assay of amikacin?  
(A) Micrococcus luteus  
(B) Bacillus subtilis  
(C) Bacillus pumilus  
(D) Staphylococcus aureus
- 067 Photon Correlation Spectroscopy is the technique used for the determination of which of the following?  
(A) Partition coefficient  
(B) Critical micelle concentration  
(C) Particle size  
(D) pKa Value
- 068 For friability testing of tablets, friability tester will rotate at which of the following speed for 100 times?  
(A) 20 rpm  
(B) 25 rpm  
(C) 50 rpm  
(D) 55 rpm
- 069 Lyophilization is used for which of the following purpose?  
(A) Drying  
(B) Filtration  
(C) Distillation  
(D) Humidification



- 070 Freundlich and Langmuir constants is associated with which of the following?  
(A) Absorption  
(B) Solubilization  
(C) Adsorption  
(D) Partition
- 071 Which of the following is as example of absorption type of ointment base?  
(A) Lard  
(B) Wool fat  
(C) Silicons  
(D) Ceresin wax
- 072 Jelly can be prepared using which of the following?  
(A) Cetrimide  
(B) Cetostearyl alcohol  
(C) Coca butter  
(D) Carbopols
- 073 In HEPA filter, air velocity at all parts of the filter should be \_\_\_\_\_.  
(A)  $90 \pm 20$  feet per minute  
(B)  $90 \pm 20$  feet per second  
(C)  $50 \pm 20$  feet per minute  
(D)  $50 \pm 1$  20 feet per second
- 074 Propellant is a component of which of the following?  
(A) Aerosols  
(B) Injectables  
(C) Linctus  
(D) Jelly
- 075 Full form of BOD in B.O.D. incubator?  
(A) Biological oxygen depositor  
(B) Biochemical oxygen diffusion  
(C) Biological oxygen demand  
(D) Basic oxygen demand.
- 076 The rate at which a ball of a particular density and diameter falls is an inverse function of the viscosity of the sample. This is the principle of which of the following viscometer?  
(A) Cup and Bob viscometer  
(B) Hoesppler viscometer  
(C) Ostoald viscometer  
(D) Brookfield viscometer
- 077 Which of the following confirmation test is used for the qualitative analysis of the urine for the presence of albumin?  
(A) Jaffe's Test  
(B) Heller's nitric acid ring test  
(C) Modified Gmelin's test  
(D) Hay's sulfur flower test
- 078 In hyperinsulinism, glucose level in the whole blood is found to be \_\_\_\_\_.  
(A)  $< 80$  mg/dL  
(B)  $80 - 120$  mg/dL  
(C)  $>120$  mg/dL  
(D) No effect
- 079 Which of the following euthanasia method is not recommended for rats?  
(A) Exsanguination  
(B) Decapitation  
(C) Electrocution  
(D) Cervical dislocation

- 080 As per the CPCSEA guidelines, what is the minimum height requirement for the box in centimeter for transport of laboratory animal Guinea Pig by road, rail or air?  
(A) 12  
(B) 14  
(C) 15  
(D) 30
- 081 Blood collection from the mouse is preferably carried out from \_\_\_\_\_.  
(A) Marginal ear vein  
(B) Cephalic vein  
(C) Penile vein  
(D) Retro-orbital sinus
- 082 Folin-Wu method is for the estimation of \_\_\_\_\_ in blood?  
(A) Creatinine  
(B) Glucose  
(C) Bilirubin  
(D) Total cholesterol
- 083 Westergren method is used for which of the following determination?  
(A) Bleeding time  
(B) Clotting time  
(C) Erythrocyte sedimentation rate  
(D) Tidal volume
- 084 Test : 5 ml of urine + sprinkle sulfur powder on surface;  
Observation : Powder sinks rapidly to the bottom i Inference : \_\_\_\_\_  
(A) Blood present  
(B) Acetone bodies present  
(C) Albumin confirmed  
(D) Bile salts present
- 085 Normal basal mass index is \_\_\_\_\_.  
(A) <16  
(B) 16 - 18.5  
(C) 18.5 - 25  
(D) 25 - 30
- 086 Van Den Bergh method is for the estimation of \_\_\_\_\_ in serum?  
(A) Creatinine  
(B) Glucose  
(C) Bilirubin  
(D) Total cholesterol
- 087 Benedict's quantitative reagent is used for the estimation of the following in urine?  
(A) Diastase  
(B) Phosphate  
(C) Creatinine  
(D) Glucose
- 088 Vital capacity is associated with which of the following organ?  
(A) Lungs  
(B) Liver  
(C) Kidney  
(D) Heart
- 089 Azeotropic volumetric method is used for the determination of \_\_\_\_\_ in powdered crude drug.  
(A) Ash value  
(B) Moisture content  
(C) Extractive value  
(D) Swelling index

- 090 Stomatal index is calculated using which of the following equation?
- (A)  $\left(\frac{E}{E+S}\right) \times 100$
- (B)  $\left(\frac{S}{E} + \frac{1}{S}\right) \times 100$
- (C)  $\left(\frac{S}{E+S}\right) \times 100$
- (D)  $\left(\frac{1}{E} + \frac{1}{S}\right) \times 100$
- 091 To obtain a critical result of Vein-Islet Number in a leaf, preferably \_\_\_\_\_ square millimeter area of leaf should be used.
- (A) 2
- (B) 4
- (C) 6
- (D) 8
- 092 Which of the following gives idea about the mucilage content of the crude drug?
- (A) Palisade ratio
- (B) Vein Islet termination
- (C) Ash value
- (D) Swelling index
- 093 Which of the organic solvent is used in determination of water-soluble extractives from powdered crude drug?
- (A) Chloroform water
- (B) Alcohol
- (C) Ammonia
- (D) None of the above
- 094 In plant extraction, water is usually not used as solvent in which of the following method?
- (A) Percolation
- (B) Maceration
- (C) Soxhlet extraction
- (D) Infusion
- 095 Which of the following is oil immersion lens?
- (A) 4x
- (B) 10x
- (C) 40x
- (D) 100x
- 096 The solvent used for the extraction process is also called as \_\_\_\_\_
- (A) Menstruum
- (B) Extract
- (C) Marc
- (D) All of the above
- 097 Suitable gas used as solvent in super critical fluid extraction is \_\_\_\_\_.
- (A) Oxygen
- (B) Carbon dioxide
- (C) Nitrogen dioxide
- (D) Ammonia
- 098 Soxhlet apparatus is an example of \_\_\_\_\_.
- (A) Digestion
- (B) Percolation
- (C) Continuous hot extraction
- (D) Maceration

- 099 The insoluble residue left after extracting the desired continuant is known as \_\_\_\_\_.  
(A) Menstruum  
(B) Extract  
(C) Marc  
(D) All the above
- 100 One milligram of powdered lycopodium contains \_\_\_\_\_.  
(A) 74000 spores  
(B) 84000 Spores  
(C) 64000 spores  
(D) 94000 spores