001   Find the error, if any
   (A)   If you lend him a book
   (B)   he will lend it to someone else
   (C)   and never you will get it back
   (D)   No error

002   Fill is the blank :- Success in this examination depends _____ hard work alone
   (A)   at
   (B)   over
   (C)   for
   (D)   on

003   Select proper synonyms for "Embezzle"
   (A)   Misappropriate
   (B)   Balance
   (C)   Remunerate
   (D)   Clear

004   Select proper antonyms for Expand
   (A)   Convert
   (B)   Condense
   (C)   Congest
   (D)   Conclude

005   Select one word for
   "A person of good understanding, knowledge and reasoning power"
   (A)   Expert
   (B)   Intellectual
   (C)   Snob
   (D)   Literate

006   Find the value of X
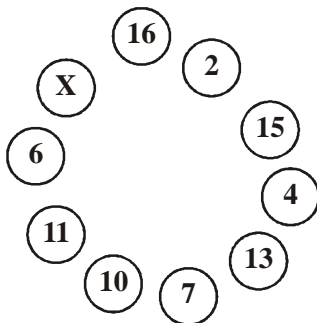
   (A)   1
   (B)   3
   (C)   11
   (D)   16

007   Find the value of "A"
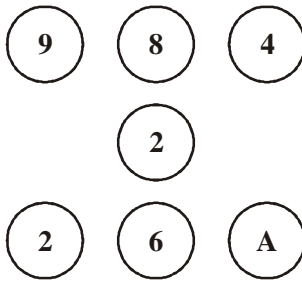
(A)   6
(B)   7
(C)   8
(D)   9

008   The greatest four digit number that is divisible by 15, 25, 40 and 75
(A)   9000
(B)   9400
(C)   9600
(D)   9800

009   The present age of Mahesh and Dinesh are in the ratio of 5:4, three years later the ratio of their age will be 11:9. what is Dinesh present age?
(A)   24 years
(B)   26 years
(C)   28 years
(D)   30 years

010   Find the value of 8 in following equation.

$$\frac{x}{\sqrt{128}}=\frac{\sqrt{162}}{x}$$

(A)   12
(B)   14
(C)   144
(D)   196

011   Arrange the words in meaningful sequence
1. Key   2. Door   3. Lock   4. Room   5. Switch on light
(A)   3, 2, 4, 5, 1
(B)   2, 4, 5, 1, 3
(C)   1, 3, 2, 4, 5
(D)   4, 5, 1, 3, 2

012   Arrange the words in meaningful sequence
1. Police   2. Punishment   3. Crime   4. Judge   5. Punishment
(A)   1, 4, 5, 2, 3
(B)   3, 1, 4, 5, 2
(C)   4, 5, 2, 3, 1
(D)   5, 2, 3, 1, 4

013 Give meaning of idiom or phrase

To have an axe to grind

(A) To fail to arouse interest

(B) To have no results

(C) To work for both sides

(D) **A selfish aim or motive**

014 589654237, 89654237, 8965423, 965423, _____

(A) 58965

(B) 65423

(C) 89654

(D) **96542**

015 3, 10, 101, _____

(A) 10101

(B) 10201

(C) **10202**

(D) 11012

016 In _____ a number of jobs are put to gather and executed as a group.

(A) Single user operating system

(B) Multi user operating system

(C) Multi tasking operating system

(D) **Batch processing operating system**

017 Server site operating system are also known as _____

(A) Single user operating system

(B) **Network operating system**

(C) Multi tasking operating system

(D) Batch processing operating system

018 In real time operating system which is most suitable scheduling scheme?

(A) Round Robin

(B) FCFS

(C) **Preemptive scheduling**

(D) Random scheduling

019 _____ is a type of synchronous interrupt typically caused by an exceptional condition (Ex: division by zero or invalid memory access) in a users process.

(A) Thread

(B) Call

(C) Trap

(D) **None of above**

020 _____ is a core of an operating system.

(A) Thread

(B) **Kernel**

(C) Call

(D) Trap

021 Faulty inputs lead to faulty results, this is known as

(A) Diligence

(B) Versatility

(C) GIGO

(D) None of above

022 Third generation computers were based on _____

(A) IC

(B) Vacuum tube

(C) Transistors

(D) None of above

023 ULSI stands for

(A) Ultra Large Scale Integration

(B) Ultimate Large Scale Integration

(C) Upper Large Scale Integration

(D) Ultra Large Scale Inter Generation

024 Graphical terminals are divided into :

(A) text and dumb

(B) dumb and intelligent

(C) vector mode and raster mode

(D) intelligent and vector mode

025 _____ is an artificial neural network with multiple hidden layers between the input and out put layers?

(A) Deep neural network

(B) Shallow neural net work

(C) Both (A) and (B)

(D) None of above

026 Who among the following receives subsidy from the government?

(A) Sellers

(B) Buyers

(C) Manufacturers

(D) All of the above

027 Railway services are which type of services in economy?

(A) Primary sector

(B) Secondary sector

(C) Tertiary sector

(D) Quaternary sector

028 Which of the statement is not correct for the Govt. Scheme "Pradhan Mantri Kisan Samman Nidhi"?

(A) This Scheme is 100% C.S.S. Scheme.

(B) Rupees 6000/- per annum paid to each eligible farmer.

(C) Rupees 6000/- given in the form of Fixed Deposit Certificate.

(D) Rupees 6000/- paid per annum through D.B.T.

029 G.C.C.I. has started "EXIM HELP DESK" in coordination with which bank for the purpose of Export-Import?

(A) **S.B.I.**

(B) **B.O.B.**

(C) **C.B.I.**

(D) **U.B.I.**

030 As per 2011 census what is the female literacy in Gujarat?

(A) **87.23%**

(B) **70.73%**

(C) **79.31%**

(D) **60.73%**

031 If students are not satisfied with the order of the grievance redressal committee they are entitled to an appeal to the ombuds man of the university within _____ days.

(A) **60**

(B) **15**

(C) **45**

(D) **30**

032 If a student withdraws his application within 15 days of admission, he is entitled to get refund of a fee to the tune of _____ as per UGC notification.

(A) **100%**

(B) **80%**

(C) **50%**

(D) **No refund of fee**

033 What are the Technical Education Regulatory (TER) charges for setting up a new technical institution set up exclusively for women? (as per AICTE 2023-24)

(A) **Rupees 8.80 Lakh**

(B) **Rupees 2.20 Lakh**

(C) **Rupees 6.60 Lakh**

(D) **No charges**

034 What was the theme of "National Pharmacovigilance week celebration (17 Sept. to 23rd Sept. 2023)?

(A) **Boosting public confidence in Pharmacists.**

(B) **Boosting public confidence in Generic Medicines**

(C) **Boosting public confidence in Pharmacopoeia**

(D) **Boosting public confidence in Pharmacovigilance**

035 Which of the following is an amount of renewal fee for (registration under C.O.A.) One time fee?

(A) **Rupees 600**

(B) **Rupees 6000**

(C) **Rupees 200**

(D) **Rupees 1000**

036 UGC Provides general development assistance to _____

(A) **Central universities only.**

(B) **Only central & state universities.**

(C) **Identified deemed universities and state universities.**

(D) **All of these universities.**

037 Eligibility for "Travel Grant" is available as financial assistance to a person for international travel on _____ basis.

(A) Once in a year on 50%

(B) Once in two year on 75%

(C) Once in three year on 100%

(D) None of these

038 What is the validity of UGC NET E-Certificate for Assistant Professor?

(A) Lifetime

(B) Four years

(C) Ten years

(D) Five years

039 _____ of AICTE promotes quality in technical education through training, research, scholarship through several schemes.

(A) Academic Bureau

(B) University Bureau

(C) Quality Assurance Bureau

(D) RIFD Bureau

040 What is full form of 'NEQIP'? (Under AICTE)

(A) North East Quickly Improvement Program

(B) North East Quality Improvement Program

(C) Nation Education Quality Improvement Program

(D) National Educational Qualitative Improvement Program

041 'પરમાત્મા' કયો સમાસ છે ?

(A) મધ્યમપદલોપી

(B) તત્પુરુષ

(C) કર્મધારય

(D) રૂપક

042 નીચેનામાંથી કયા શબ્દની જોડણી સાચી નથી ?

(A) પત્થર

(B) પ્રિયવંદા

(C) આલ્હાદક

(D) બધા જ શબ્દની

043 વ્યાકરણની દૃષ્ટિએ કયું વાક્ય અશુધ્ધ છે ?

(A) મેં આ પત્ર કે ઠરાવ વાચ્યાં નથી.

(B) કાજલ અથવા મહેશ આવ્યો હશે.

(C) જેટલું વહેલું તેટલું સારું.

(D) તેમણે ગૃહકાર્ય કર્યું.

044 આપેલ વાક્યમાં કઈ અર્થવ્યવસ્થા છે ?

(A) આજ્ઞાર્થ

(B) નિર્દેશાર્થ

(C) સંભાવનાર્થ

(D) ક્રિયાતિપત્યર્થ

045 "રાતોરાત વનપટ પડખું બદલી લે છે." - કયો અલંકાર ?

    (A)   રૂપક

    (B)   સજીવારોપણ

    (C)   વર્ણસગાઈ

    (D)   ઉત્પ્રેક્ષા

046 Which tiger reserve has got the title of India's first "Dark Sky Park"?

    (A)   Kaziranga Tiger Reserve

    (B)   Pench Tiger Reserve

    (C)   Namdapha Tiger Reserve

    (D)   Kamlang Tiger Reserve

047 Which bank has recently launched "Samman" Rupay Credit Card?

    (A)   State Bank of India

    (B)   Punjab National Bank

    (C)   Axis Bank

    (D)   Indusind Bank

048 Who has become the first female athlete to win the Arjun Award for equestrian sports ?

    (A)   Divyakriti Singh

    (B)   Divya Rana

    (C)   Diya Mirza

    (D)   Bhavna Parmar

049 10th January is celebrated as which day in the world?

    (A)   UN English Language Day

    (B)   World Braille Day

    (C)   World Hindi Day

    (D)   World Pulses Day

050 Gabriel Atal became the Prime Minister of which country recently?

    (A)   Australia

    (B)   Canada

    (C)   France

    (D)   Germany

051 When we forward bias an ideal diode, it acts like a/an

    (A)   Open Circuit

    (B)   Short Circuit

    (C)   Resistor

    (D)   Capacitor

052 A silicon diode is forward biased so that its anode is 0.5V positive compared to its cathode. The current through the diode is

    (A)   0.5 A

    (B)   0 A

    (C)   not known

    (D)   enough to burn out the diode

053 Avalanche breakdown is normally produced by

(A) reverse voltage > 5V

(B) reverse voltage < 5 V

(C) forward voltage > 5 V

(D) forward voltage < 5 V

054 A voltage multiplier circuit is constructed using

(A) Resistors and Inductors

(B) Capacitors and Inductors

(C) Diodes and Capacitors

(D) Diodes and Transistors

055 In the common-emitter configuration, if the transistor is in the saturation region, then

(A) $I_C > I_E$

(B) $I_C < \beta I_B$

(C) $I_E < I_B$

(D) $I_B > \beta I_C$

056 To operate the transistor in the saturation region

(A) both emitter and collector junctions shorted

(B) emitter junction forward biased, collector junction reverses biased

(C) both emitter and collector junctions reverse biased

(D) both emitter and collector junctions forward biased

057 The Q-point in transistor biasing indicates

(A) V_{BE}, I_B

(B) V_{BE}, V_{CE}

(C) V_{CC}, V_{BE}

(D) V_{CE}, I_C

058 The most important advantage of FET over BJT is

(A) very high current gain

(B) very high input resistance

(C) very high noise level

(D) very high input capacitance

059 The following truth table belongs to

Inputs		Output
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

(A) OR gate

(B) AND gate

(C) Ex-OR gate

(D) NOT gate

060   The Boolean expression for Ex-NOR gate is

(A) $y = A + B$

(B) $y = \overline{A} + \overline{B}$

(C) $y = \overline{A}B + A\overline{B}$

(D) $y = AB + \overline{A}\,\overline{B}$

061   Single input NAND is a _____ gate.

(A)   NOT

(B)   AND

(C)   OR

(D)   Ex-OR

062   Number of 2-input NAND gates required to implement 2-input Ex-NOR logic are

(A)   2

(B)   3

(C)   4

(D)   5

063   The most important advantage of CMOS logic family is its

(A)   extremely small power dissipation

(B)   extremely small switching time

(C)   extremely low fan-out capability

(D)   extremely complex geometry

064   The supply voltage for TTL digital IC is typically

(A)   – 5V

(B)   + 5V

(C)   – 3 V

(D)   + 2 V

065   The fastest-saturating logic circuit is the

(A)   DTL

(B)   TTL

(C)   ECL

(D)   CMOS

066   In the TTL gate, the input diodes of a DTL gate are replaced by a

(A)   multi-emitter transistor

(B)   multi-collector transistor

(C)   multi-base transistor

(D)   zener diode

067   In an 8085 microprocessor, the purpose of using ALE signal is to

(A)   connect the memory to the processor

(B)   connect the I/O devices to the processor

(C)   demultiplex the address and data bus

(D)   disable the address bus

068   In an 8085 microprocessor, which register pair is used as a memory pointer?

(A)   PC

(B)   SP

(C)   BC

(D)   HL

069   HLDA signal in an 8085 microprocessor is a/an

(A)   input signal

(B)   output signal

(C)   bidirectional signal

(D)   address bus signal

070   Which one of the following is NOT a machine control instruction in an 8085 processor?

(A)   NOP

(B)   HLT

(C)   RIM

(D)   RET

071   The clock frequency of an 8085 microprocessor is 5 MHz. If the time required to execute an instruction is 1.4 μs, then the number of T-states needed is

(A)   1

(B)   6

(C)   7

(D)   8

072   Which of the following is NOT a flag in the 8085 microprocessor?

(A)   Overflow flag

(B)   Carry flag

(C)   Zero flag

(D)   Parity flag

073   The major difference between microprocessors and microcontrollers is

(A)   higher speed of microcontrollers

(B)   on chip RAM and ROM in microprocessors

(C)   timers and counters in microprocessors

(D)   on chip ADC and DAC in microprocessors

074   Which one of the following is NOT a characteristic of an embedded system?

(A)   it contains hard ware

(B)   it contains software embedded in hard ware

(C)   it is real-time computing system

(D)   it is a general-purpose computer

075   Photodiode is an example of

(A)   light sensor

(B)   pressure sensor

(C)   temperature sensor

(D)   force sensor

076 **Which one of the following is NOT a temperature sensor?**

(A) **RTD**

(B) **Thermistor**

(C) **Thermocouple**

(D) **LVDT**

077 **Linear Variable Differential Transducer (LVDT) is used to measure**

(A) **Temperature**

(B) **Displacement**

(C) **Light**

(D) **pH**

078 **LM 135 is an example of**

(A) **Thermocouple**

(B) **RTD**

(C) **Semiconductor temperature sensor**

(D) **Thermistor**

079 **Spectrum analyzer displays**

(A) **Amplitude of the frequency components**

(B) **Time domain representation of the signal**

(C) **Energy of the waveform**

(D) **Power gain of the amplifier**

080 **Input impedance of a digital multimeter (DMM) is typically**

(A) **a few Mega Ohms**

(B) **a few Kilo Ohms**

(C) **a few Ohms**

(D) **a few Milli Ohms**

081 **In an oscilloscope, the sweep generator is basically**

(A) **a sinewave generator**

(B) **a pulse generator**

(C) **a ramp generator**

(D) **a triangular waveform generator**

082 **In a function generator, the square and triangular waveform can be generated using**

(A) **Differentiator**

(B) **Integrator and Schmitt Trigger**

(C) **Analog multiplier**

(D) **Logarithmic amplifier**

083 **IEEE 802.15.1 bluetooth physical layer modulation scheme is specified as**

(A) **FM**

(B) **PSK**

(C) **ASK**

(D) **GFSK**

084 In the piconet, each of the slave devices has an assigned active device address of

(A) 3-bit

(B) 4-bit

(C) 5-bit

(D) 6-bit

085 In GPS, we need to receive signals from at least _____ satellites to accurately determine receiver position.

(A) 5

(B) 2

(C) 4

(D) 12

086 Gyroscope is used for measuring

(A) inclination

(B) force

(C) displacement

(D) pressure

087 A Micro-Electro-Mechanical Sensor (MEMS) can detect

(A) flux

(B) acceleration

(C) torque

(D) light

088 Which one of the following CANNOT be used for drone communication system?

(A) WiFi

(B) Bluetooth

(C) 2G cellular

(D) 4G cellular

089 Which one of the following types of sensors is used in Touchscreens?

(A) Capacitive

(B) Inductive

(C) LASER

(D) LED

090 Sensors suitable for difficult-to-reach biological and industrial systems are

(A) Thermal sensors

(B) Nano sensors

(C) Resistive sensors

(D) Piezoelectric sensors

091 The final framing of information signal and synchronization is provided by _____ layer in OSI model.

(A) Network

(B) Physical

(C) Data-link

(D) Transport

092 In which topology, adjacent devices are interconnected through direct, point-to-point-connections

(A) Ring

(B) Bus

(C) Star

(D) Tree bus

093 Repeaters and hubs operate at _____ of the OSI protocol hierarchy.

(A) layer 2

(B) layer 3

(C) layer 1

(D) upper protocol layer

094 In the TCP header, the source and destination port addresses are specified by _____ address.

(A) 8-bit

(B) 32-bit

(C) 16-bit

(D) 4-bit

095 Which part of the UNIX operating system interacts with the hardware?

(A) Kernel

(B) Shell

(C) Vi editor

(D) Application Program

096 The two modes in which the windows operating system runs programs are

(A) Real Mode and Virtual Mode

(B) User Mode and Kernel Mode

(C) Protected Mode and Free Mode

(D) Memory Mode and I/O Mode

097 In TCP/IP, IP version 4 (IPv4) has address length of

(A) 16 bits

(B) 8 bits

(C) 32 bits

(D) 64 bits

098 Routers operate at the

(A) Data-link layer

(B) Physical layer

(C) Transport layer

(D) Network layer

099 IP address 192.168.0.0 is

(A) class A address

(B) class B address

(C) class C address

(D) class D address

100 **In Linux operating system, an interface between the kernel and the user is provided by**

(A)   environment

(B)   file structure

(C)   processor

(D)   memory