

# BHR(CBRT)

## PROVISIONAL ANSWER KEY

Name of the post	Geologist, Class-2 (GWRDC)
Advertisement No.	70/2023-24
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THE LINK FOR ONLINE OBJECTION SYSTEM WILL START FROM 01-04-2024; 04:00 PM ONWARDS

## Instructions / સૂચન

Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -

- (1) All the suggestion should be submitted through **ONLINE OBJECTION SUBMISSION SYSTEM** only. Physical or submission through E- Mail of suggestions will not be considered.
- (2) Question wise suggestion to be submitted in the prescribed format (proforma) published on the website / online objection submission system.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), published herewith on the website / online objection submission system. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet. Objections shall not be considered, in case, if responses given in the answer sheet / response sheet and submitted suggestions are differed.
- (6) Objection for each question should be made on separate sheet. Objection for more than one question in single sheet shall not be considered.

ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં

- (1) ઉમેદવારે વાંધા-સૂચનો ફક્ત ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ દ્વારા જ સબમીટ કરવાના રહેશે. રૂબરૂ અથવા ટપાલ અથવા ઇ-મેઇલ દ્વારા આયોગની કચેરીએ મોકલવા આવેલ વાંધા-સૂચનો ધ્યાને લેવામા આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ / ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઇટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્રમાં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચનો ધ્યાનમા લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચનો પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

Website link for online objection submission system : <http://gpsc.safevaults.in/login/>

001. મીરાંબાઈ રચિત મુખ્ય ગ્રંથો અને રચનાઓમાં નીચેના પૈકી કઈ કૃતિનો સમાવેશ થતો નથી ?  
 (A) સતભામાનું રુસણું (B) મીરાંબાઈ કી પદાવલી  
 (C) બાલાજોગણ (D) નરસિંહ રા માહ્યરા
002. ગુજરાતના કયા સંતે પોતાની આખી જિંદગી રક્તપિત્તના દર્દીઓની સેવામાં વિતાવી?  
 (A) પૂજ્ય શ્રી મોટા (B) સંત અમર દેવીદાસ  
 (C) સંત પુનિત મહારાજ (D) શ્રી રંગ અવધૂત
003. નીચેનામાંથી કયું પ્રાણી હડપ્પન સંસ્કૃતિની છાપ (Seal) અને ટેરાકોટા કલા પર દર્શાવવામાં આવ્યું ન હતું ?  
 (A) ગાય (B) હાથી  
 (C) ગેંડા (D) સિંહ
004. સાહિત્યમાંથી સર્જાયેલી ગુજરાતી ફિલ્મો પૈકી ‘ભવની ભવાઈ’ કઈ કૃતિ અને લેખક આધારિત ફિલ્મ છે ?  
 (A) ‘માનવીની ભવાઈ’ પન્નાલાલ પટેલ (B) ‘સપનામાં દીઠા’ વર્ષા અડાલજા  
 (C) ‘અદ્ભૂતનો વેશ’ ધીરુબહેન પટેલ (D) ‘ધરતીના અમી’ પીતાંબર પટેલ
005. કચ્છમાં આવેલું કયું સ્થળ રોગન-પ્રિન્ટિંગ ભરતકામ માટે જાણીતું છે ?  
 (A) ધનેતિ (B) નખત્રાણા  
 (C) નિરોણા (D) હોડકા
006. કઈ સંસ્થા પૌરાણિક હસ્તપ્રતો અને શિલાલેખોની જાળવણી અને સંશોધનનું કામ કરે છે ?  
 (A) શ્રેયસ મ્યુઝિયમ, અમદાવાદ (B) બાર્ટન મ્યુઝિયમ, ભાવનગર  
 (C) લાલભાઈ દલપતભાઈ ઈન્ડોલોજી (D) મહારાજા ફતેહસિંહ મ્યુઝિયમ, વડોદરા
007. હર્ષવર્ધને ઈ.સ. 606માં હર્ષ સંવતની શરૂઆત ..... ના પ્રસંગે કરી હતી.  
 (A) તેના સિંહાસન આરોહણ (B) કન્નોજ રાજ્યારોહણ  
 (C) સિંધનો વિજય (D) પૂર્વીય ભારત પર વિજય
008. ન્યાયસૂત્રના લેખક ..... હતા.  
 (A) ગૌતમ (B) કણાદ  
 (C) કપિલ (D) બાદરાયણ
009. “અનેકાંતવાદ” એ મુખ્ય સિદ્ધાંત અને ફિલસૂફી જે નીચેનામાંથી કઈ પરંપરાની છે ?  
 (A) બૌદ્ધ પરંપરા (B) જૈન પરંપરા  
 (C) શીખ પરંપરા (D) વૈષ્ણવ પરંપરા
010. કયા બ્રિટિશ ગવર્નર જનરલે ભારતમાં ટપાલ ટિકિટ શરૂ કરી?  
 (A) લોર્ડ ડેલહાઉસી (B) લોર્ડ ઓક્લેન્ડ  
 (C) લોર્ડ કેનિંગ (D) લોર્ડ વિલિયમ બેનટિંક
011. ગુજરાતના કયા મુખ્યમંત્રીના કાર્યકાળમાં મહિલાઓ માટે “અભયમ” મહિલા હેલ્પલાઈન નંબર-181ની શરૂઆત કરવામાં આવી?  
 (A) આનંદીબેન પટેલ (B) નરેન્દ્રભાઈ મોદી  
 (C) વિજયભાઈ રૂપાણી (D) શંકરસિંહ વાઘેલા

001. Which of the following works is not included among the major compositions composed by Mirabai ?  
 (A) Satbhama nu Rusunu (B) Mirabai ki Padavali  
 (C) Balajogan (D) Narsinh ra Mahyara
002. Which saint in Gujarat dedicated his life to the service of the leprosy sufferers ?  
 (A) Pujya Shri Mota (B) Saint Amar Devidas  
 (C) Saint Punit Maharaj (D) Shree Rang Avadhut
003. Which one of the following animals was not represented on the seals and terracotta art of the Harappan culture ?  
 (A) Cow (B) Elephant  
 (C) Rhinoceros (D) Lion
004. Among the Gujarai films created from Gujarati literature, 'Bhavani Bhavai' is a film based on which work and writer ?  
 (A) 'Manavini Bhavai' - Pannalal Patel (B) 'Sapanama Ditha' - Vrasha Adalaja  
 (C) 'Achhutno Vesh' - Dhiruben Patel (D) 'Dhartina Ami' - Pitambar Patel
005. Which place in Kutch is famous for rogan-printing embroidery ?  
 (A) Dhaneti (B) Nakhatrana  
 (C) Nirona (D) Hodaka
006. Which Organisation works for preservation and Research for ancient manuscripts and stone inscriptions ?  
 (A) Shreyas Museum, Ahmedabad (B) Barton Museum, Bhavnagar  
 (C) Lalbhai Dalpatbhai Indology (D) Maharaja Fatehsinh Museum, Vadodara
007. Harshvardhana introduced Harsha Samvat in 606 AD on the occasion of –  
 (A) His ascendance to the the throne (B) Kannauj accession  
 (C) Sindh victory (D) Victory over Eastern India
008. Author of Nyaya Sutra was –  
 (A) Gautam (B) Kanad  
 (C) Kapil (D) Badarayan
009. "Anekantavada" is a core theory and philosophy of which one of the following?  
 (A) Buddhism (B) Jainism  
 (C) Sikkhism (D) Vaishnavism
010. Which British Governer General introduced postage stamp in india?  
 (A) Lord Dalhousie (B) Lord Auckland  
 (C) Lord Canning (D) Lord William Bantik
011. During the tenure of which chief minister of Gujarat for women "Abhayam Mahila Helpline No. 181" was started ?  
 (A) Anandiben Patel (B) Narendrabhai Modi  
 (C) Vijaybhai Rupani (D) Shankarsinh Vaghela

012. દાંડી યાત્રા બદલપુરના બદલે દાંડી સુધી રાખવાનું સૂચન ગાંધીજીને કોણે કર્યું હતું ?  
 (A) કલ્યાણજી મહેતા (B) ઘનશ્યામ બિરલા  
 (C) વિક્લભભાઈ લલ્લુભાઈ પટેલ (D) સરદાર વલ્લભભાઈ
013. શિવરાય ટેકરીઓ ક્યાં આવેલી છે?  
 (A) આંધ્રપ્રદેશ (B) કર્ણાટક  
 (C) કેરળ (D) તામિલનાડુ
014. નીચેનામાંથી કઈ નદીનું ઉદ્ગમસ્થાન ભારતમાં નથી?  
 (A) બિયાસ (B) ચિનાબ  
 (C) રાવી (D) સતલુજ
015. નિમ્નલિખિતમાંથી કોને ભૂમધ્ય સમુદ્રનું લાઈટ હાઉસ કહેવાય છે?  
 (A) સિસલીનું સ્ટ્રોમ્બોલી (B) ઈટાલીનું વિસુવિયસ  
 (C) પશ્ચિમ દ્વિપનું માઉન્ટપીલી (D) મેક્સિકોનું પેરાક્યુટિન
016. એકલારા અને આરસોડિયા શાના માટે પ્રસિદ્ધ છે ?  
 (A) અકીક (B) વુલેસ્ટોનાઈટ  
 (C) ડોલોમાઈટ આરસ (D) ચિનાઈ માટી
017. મહી નદીની અન્ય સહાયક નદીઓ કઈ-કઈ છે ?  
 (A) પાનમ (B) મેસરી  
 (C) ગળતી અને અનાસ (D) ઉપરોક્ત તમામ
018. ગુજરાતનાં મેંઝોવના જંગલોમાં કયા પ્રકારના વૃક્ષો જોવા મળે છે?  
 (A) સુંદરી (B) ઓઈલપામ  
 (C) ચેર (D) ખેર
019. ગુજરાત સરકાર અને કેન્દ્ર સરકાર વતીથી રાજ્યમાં 'પર ડ્રોપ, મોર કોપ' ઘટક અંતર્ગત સૂક્ષ્મ સિંચાઈ યોજનાનું અમલીકરણ કઈ કંપની દ્વારા કરવામાં આવે છે?  
 (A) ગુજરાત વોટર યુઝર્સ ઈરિગેશન કંપની  
 (B) ગુજરાત ગ્રીન રિવોલ્યુશન કંપની  
 (C) ગુજરાત એગ્રો ઈન્ડસ્ટ્રીઝ કોર્પોરેશન  
 (D) વોટર એન્ડ સેનિટેશન મેનેજમેન્ટ ઓર્ગેનાઈઝેશન
020. 2011ની વસ્તી ગણતરી મુજબ નીચેના પૈકી કયા કેન્દ્રશાસિત પ્રદેશમાં સાક્ષરતા દર સૌથી ઊંચો હતો ?  
 (A) ચંડીગઢ (B) દાદરા નગર હવેલી દમણ અને દીવ  
 (C) પુડુચેરી (D) લક્ષદ્વીપ
021. EPZ એટલે શું ?  
 (A) એક્સપોર્ટ પ્રોડક્શન ઝોન (B) એક્સપોર્ટ પ્રમોશન ઝોન  
 (C) એક્સપોર્ટ પ્રોસેસિંગ ઝોન (D) એક્સપોર્ટ પેમેન્ટ ઝોન

012. Who suggested to Gandhiji to hold the 'Dandi Yatra' to Dandi instead of Badalpur?  
(A) Kalyanji Mehta (B) Ghanshyam Birla  
(C) Vitthalbhai Lallubhai Patel (D) Sardar Vallabhbhai Patel
013. Where is Shivarai (Shevaroy) Hills Located?  
(A) Andhra Pradesh (B) Karnataka  
(C) Kerala (D) Tamilnadu
014. Which of the following rivers doesn't originate in India?  
(A) Biyas (B) Chenab  
(C) Ravi (D) Satluj
015. Which among the following is called a 'Light House of Bhumadhyha (Mediterranean) Sea'?  
(A) Stromboli of Sicily (B) Italy's Vesuvis  
(C) Mount Pilly of The Western Island (D) Parcutin of Mexico
016. What are Aklara and Arosodia famous for ?  
(A) Akiq (B) Woollastonite  
(C) Dolomite Marble (D) Porcelain Clay
017. Which is the other tributories of Mahi river ?  
(A) Panam (B) Mesari  
(C) Galati & Anas (D) All of the Above
018. Which types of trees are found in the Mangroove Forests of Gujarat?  
(A) Sundari (B) Oil Palm  
(C) Cher (D) Kher
019. By which company micro-irrigation scheme under "Per Drop, More Crop" component in the state on behalf of Government of Gujarat and central government is implemented ?  
(A) Gujarat Water Users Irrigation Company  
(B) Gujarat Green Revolution Company  
(C) Gujarat Agro Industries Corporation  
(D) Water and Sanitation Management Organization
020. Literacy rate in which of the following Union Territories as per 2011 census was the highest ?  
(A) Chandigarh (B) Dadra Nagar Haveli Daman and Diu  
(C) Puducherry (D) Lakshadweep
021. What is 'EPZ'?  
(A) Export Production Zone (B) Export Promotion Zone  
(C) Export Proceesing Zone (D) Export Payment Zone

022. હાલમાં નીતિ આયોગના ચીફ એકિઝક્યુટિવ ઓફિસર કોણ છે ?
- (A) અમિતાભ કાન્ત (B) બી.વી.આર.સુબ્રહમણ્યમ  
(C) અરવિંદ પનગરિયા (D) વી.કે. સારસ્વત
023. બેંક લોનની વસૂલાતમાં બેન્કોને સુવિધા આપવા માટે નીચેનામાંથી કયો કાયદો ખાસ શરૂ કરવામાં આવેલ છે ?
- (A) બેન્કિંગ રેગ્યુલેશન એક્ટ (B) કંપની એક્ટ  
(C) સરફેસી એક્ટ (SARFAESI Act) (D) RBI એક્ટ
024. રિઝર્વ બેન્ક (RBI) જે વ્યાજ દરે વ્યાપારી બેન્કોને લોન આપે તેને શું કહેવાય છે?
- (A) રેપો રેટ (B) રિવર્સ રેપો રેટ  
(C) બેન્ક રેટ (D) ચાજિંગ રેટ
025. સગર્ભા અને ધાત્રી માતાઓના પોષણને વધારે સુદૃઢ કરી તેમને સક્ષમ બનાવવા ગુજરાતનાં વર્ષ 2024-25ના બજેટમાં કઈ યોજનાની જાહેરાત કરવામાં આવી છે?
- (A) નમો લક્ષ્મી યોજના (B) નમો શ્રી યોજના  
(C) નમો સરસ્વતી યોજના (D) નમો નારી વંદના યોજના
026. 6 થી 14 વર્ષની વયના તમામ બાળકોને શિક્ષણનો અધિકાર ..... માં સમાવિષ્ટ છે?
- (A) રાજ્યના નીતિ નિર્દેશક સિદ્ધાંતો  
(B) મૂળભૂત અધિકારો  
(C) વૈધાનિક અધિકાર  
(D) ઉપરોક્તમાંથી કોઈ નહીં
027. બંધારણ દ્વારા નક્કી થયા મુજબ લોકસભાનું મહત્તમ સંખ્યા બળ ..... છે.
- (A) 552 (B) 555  
(C) 550 (D) 543
028. નીચેનામાંથી કઈ બાબતો ભારતીય બંધારણની સમવર્તી યાદીમાં આવે છે?
- (A) ટ્રેડ યુનિયનો (B) નાગરિકતા  
(C) સ્થાનિક સરકાર (D) આંતર રાજ્ય નદીઓ
029. ભારતમાં રાજ્યોની સીમાઓ બદલવાની સત્તા કોની પાસે છે?
- (A) રાષ્ટ્રપતિ (B) વડાપ્રધાન  
(C) સંસદ (D) રાજ્ય સરકાર
030. નાણાં પંચ સંદર્ભે કયું સાચું છે?
- (A) તે એક બંધારણીય સંસ્થા છે.  
(B) તે બંધારણની કલમ 280 હેઠળ રચાયેલ છે.  
(C) ડૉ. અરવિંદ પનગરિયા 16મા નાણાં પંચના અધ્યક્ષ છે.  
(D) ઉપરોક્ત તમામ

022. Who is currently The Chief Executive Officer of 'NITI AYOOG'?
- (A) Amitabh Kant (B) B.V.R. Subrahmanyam  
(C) Arvind Panagariya (D) V.K. Saraswat
023. Which of the following acts is specially launched to facilitate Banks in recovery of bad loans?
- (A) Banking Regulation Act (B) Companies Act  
(C) SARFAESI Act (D) RBI Act
024. What is called the interest rate at which RBI lends to Commercial Banks?
- (A) Repo Rate (B) Reverse Repo Rate  
(C) Bank Rate (D) Charging Rate
025. Which Scheme has been announced in the Budget of Gujarat for the year 2024-25 to improve the nutrition of Pregnant and Lactating Mothers?
- (A) Namu Lakshmi Yojana (B) Namu Shree Yojana  
(C) Namu Saraswati Yojana (D) Namu Naree Vandana Yojana
026. Right to Education to all children between the age of 6 to 14 years is \_\_\_\_\_
- (A) Included in the directive principles of state policy  
(B) Fundamental Rights  
(C) A Statutory Right  
(D) None of the above
027. The Maximum Strength of Lok-Sabha as envisaged by the Constitution is \_\_\_\_\_
- (A) 552 (B) 555  
(C) 550 (D) 543
028. Which of the following items comes under the concurrent list of the Indian Constitution?
- (A) Trade Unions (B) Citizenship  
(C) Local Government (D) Inter-state Rivers
029. The Authority to alter the boundaries of States in India rests with \_\_\_\_\_
- (A) President (B) Prime Minister  
(C) Parliament (D) State Government
030. Which is true for Finance Commission ?
- (A) It is a Constitutional Body.  
(B) It is Constituted under article 280 of the Constitution.  
(C) Dr. Arvind Panagariya is Chairmain of 16<sup>th</sup> Finance Commission.  
(D) All of the Above.

031. ભારતના સોલિસિટર જનરલ તરીકે કોને નિયુક્ત કરવામાં આવેલ છે ?  
 (A) કે. કે. વેણુગોપાલ (B) તુષાર મહેતા  
 (C) મુકુલ રોહતગી (D) રામાસ્વામી વેંકટરામન
032. દેશના કયા ભાગમાં ચંદનના જંગલો મહત્તમ જોવા મળે છે ?  
 (A) આસામની ટેકરીઓ (B) શિવાલિકની ટેકરીઓ  
 (C) નિલગીરીની ટેકરીઓ (D) સાતપુડાની ટેકરીઓ
033. લોકસભામાં અનુસૂચિત જનજાતિ માટે સૌથી મોટી સંખ્યામાં અનામત બેઠકો ધરાવતું રાજ્ય કયું છે ?  
 (A) મધ્ય પ્રદેશ (B) ઉત્તર પ્રદેશ  
 (C) ગુજરાત (D) બિહાર
034. ભારતના બંધારણ અંતર્ગત નીચેનામાંથી કયા અનુચ્છેદ મુજબ સંસદને રાજ્ય યાદીના વિષયમાં કાયદો બનાવવાની શક્તિ છે ?  
 (A) અનુચ્છેદ 115 (B) અનુચ્છેદ 226  
 (C) અનુચ્છેદ 116 (D) અનુચ્છેદ 249
035. 'USB' નું પૂર્ણ સ્વરૂપ શું છે?  
 (A) Unicode Smart Bus (B) Universal Structural Bus  
 (C) Universal Serial Bus (D) Universal Smart Bus
036. ઉચ્ચસ્તરીય ભાષામાં (કમ્પ્યુટર સંદર્ભે) લખાયેલ પ્રોગ્રામ કયા તરીકે ઓળખાય છે?  
 (A) The Source Code (B) Object Code  
 (C) Machine Code (D) Assembly Code
037. દીપા કરમાકર નીચેનામાંથી કઈ રમત સાથે સંકળાયેલ છે ?  
 (A) બેડમિંટન (B) જિમ્નેસ્ટીક  
 (C) ટેનિસ (D) ગોલ્ફ
038. 'ટાઈમ ટ્રેઈલ' શબ્દ નીચેનામાંથી કઈ રમત સાથે સંકળાયેલો છે ?  
 (A) સાયકલ રેસિંગ (B) તરણ સ્પર્ધા  
 (C) શૂટિંગ (D) હોકી
039. સ્વચ્છ સર્વેક્ષણ પુરસ્કારો 2023 સંદર્ભે સ્વચ્છ ગંગા ટાઉન્સ કેટેગરીમાં ટોચનું સ્થાન કયા શહેરે મેળવ્યું છે?  
 (A) ઋષિકેશ (B) હરિદ્વાર  
 (C) વારાણસી (D) ગુપ્ત કાશી
040. તાજેતરમાં સુભાષચંદ્ર બોઝ આપત્તિ વ્યવસ્થાપન પુરસ્કાર 2024 કઈ સંસ્થાને એનાયત કરાયો?  
 (A) 60 પેરશૂટ ફિલ્ડ હોસ્પિટલ, ઉત્તરપ્રદેશ  
 (B) ઓડિશા સ્ટેટ ડિઝાસ્ટર મેનેજમેંટ ઓથોરીટી  
 (C) ગુજરાત ઈન્સ્ટિટ્યૂટ ઓફ ડિઝાસ્ટર મેનેજમેંટ  
 (D) લૂંગલે (Lunglei) ફાયર સ્ટેશન, મિઝોરમ
041. તાજેતરમાં કયા રાજ્યના હટ્ટી સમુદાયને અનુસુચિત જનજાતિનો દરજ્જો મળ્યો છે?  
 (A) ઓડિશા (B) ઉત્તરાખંડ  
 (C) ઝારખંડ (D) હિમાચલ પ્રદેશ



031. Who has been appointed as the Solicitor General of India?  
(A) K. K. Venugopal (B) Tushar Mehta  
(C) Mukul Rohatagi (D) Ramaswamy Venakraman
032. In which part of the country the forests of sandalwood is found to the maximum?  
(A) Hills of Assam (B) Hills of Shivalik  
(C) Hills of Neelgiri (D) Hills of Satpuda
033. Which state has the largest number of seats reserved for scheduled tribes in the Lok sabha?  
(A) Madhyapradesh (B) Uttarpradesh  
(C) Gujarat (D) Bihar
034. According to which of the following articles under the Constitution of India, parliament has the power to legislate on the subject of state list ?  
(A) Article - 115 (B) Article - 226  
(C) Article - 116 (D) Article - 249
035. What is the full form 'USB' ?  
(A) Unicode Smart Bus (B) Universal Structural Bus  
(C) Universal Serial Bus (D) Universal Smart Bus
036. A programme written in a high level language is referred to as \_\_\_\_\_  
(A) The Source Code (B) Object Code  
(C) Machine Code (D) Assembly Code
037. Dipa Karmakar is associated with which of the following sports ?  
(A) Badminton (B) Gymnastics  
(C) Tennis (D) Golf
038. The term 'Time Trail' is associated with which of the following sports ?  
(A) Bicycle Racing (B) Swimming  
(C) Shooting (D) Hockey
039. Which city has got the top position in the clean Ganga towns category in "Swachhh Survey Awards 2023" ?  
(A) Rishikesh (B) Haridwar  
(C) Varanasi (D) Gupt Kashi
040. Which organization was recently awarded the 'Subhash Chandra Bose Disaster Management Award'-2024 ?  
(A) 60 Parachute Field Hospital, Uttarpradesh  
(B) Odisha State Disaster Management Authority  
(C) Gujarat Institute of Disaster Management  
(D) Lunglei Fire Station, Mizoram
041. Recently the Hatti community of which state got scheduled caste status ?  
(A) Odisha (B) Uttarakhand  
(C) Jharkhand (D) Himachal Pradesh

042. વર્ષ 2024માં નીચેનામાંથી કયા આયુર્વેદાચાર્યને મેડીસીન ક્ષેત્રે પદ્મશ્રી એવોર્ડથી નવાજવામાં આવ્યા છે ?  
 (A) જગદીશ ત્રિવેદી (B) દયાલ માવજી પરમાર  
 (C) તેજસ પટેલ (D) યજ્ઞદી ઈટાલીયા
043. તાજેતરમાં DRDO દ્વારા કઈ સ્વદેશી એસોલ્ટ રાઈફલ લોન્ચ કરવામાં આવી હતી ?  
 (A) અસ્મિ (B) ઉગ્રામ  
 (C) સ્કોર્પિયન (D) INSAS
044. તાજેતરમાં PM વિશ્વકર્મા યોજના લાગુ કરનાર પ્રથમ કેન્દ્રશાસિત પ્રદેશ કયો છે ?  
 (A) ચંડીગઢ (B) લક્ષદ્વીપ  
 (C) જમ્મુ કશ્મીર (D) લદાખ
045. લિગ્નાઈટનો સૌથી વધુ ભંડાર કયા રાજ્યમાં આવેલો છે ?  
 (A) મહારાષ્ટ્ર (B) કર્ણાટક  
 (C) આંધ્ર પ્રદેશ (D) તામિલનાડુ
046. ભારતના પરમાણુ કાર્યક્રમના પિતા તરીકે કોની ગણના થાય છે ?  
 (A) હોમી શેઠના (B) રાજા રમન્ના  
 (C) ડૉ. હોમી જહાંગીર ભાભા (D) શાંતિ સ્વરૂપ ભટનાગર
047. મલ્ટી એપ્લીકેશન સોલર ટેલિસ્કોપ કઈ સોલર વેધશાળામાં છે ?  
 (A) બેંગલુરુ (B) માઉન્ટ આબુ  
 (C) શ્રી હરિકોટા (D) ઉદયપુર
048. નીચેના પૈકી કયા વૃક્ષને પર્યાવરણીય સંકટ માનવામાં આવે છે ?  
 (A) લીમડો (B) ચીર દેવદાર  
 (C) નિલગિરી (D) બાવળ
049. ભારતની ડિકેન્સ શિલ્ડ સિસ્ટમમાં વાપરવામાં આવેલી રડાર સિસ્ટમનું નામ શું છે ?  
 (A) ગ્રીન પાર્થન સિસ્ટમ (B) ત્રિનેત્ર રડાર સિસ્ટમ  
 (C) સોર્ડફિશ રડાર સિસ્ટમ (D) દિવ્યચક્ષુ
050. અમેરિકના ફૂડ એન્ડ ડ્રગ એડ્મિનિસ્ટ્રેશન એ ચિકનગુનિયા માટે વિશ્વની પ્રથમ વેકિસનને મંજૂરી આપી છે તે વેકિસનનું નામ શું છે ?  
 (A) Hib (B) DTaP  
 (C) Covishield (D) IXCHIQ
051. શહેર P થી શહેર Q સુધીની બે ટ્રેન ટિકિટ અને શહેર P થી શહેર R સુધીની ત્રણ ટિકિટની કિંમત રૂ. 95 પરંતુ શહેર P થી શહેર Q સુધીની ત્રણ ટિકિટ અને શહેર P થી શહેર R સુધીની બે ટિકિટની કિંમત 90 રૂપિયા છે. P થી અનુક્રમે Q અને R શહેરોના ભાડા કેટલા છે ?  
 (A) રૂ. 15 અને રૂ. 23 (B) રૂ. 14 અને રૂ. 24  
 (C) રૂ. 16 અને રૂ. 21 (D) રૂ. 15 અને રૂ. 21
052. અરુણ આજે તેનો જન્મદિવસ ઉજવી રહ્યો છે. તેના આગામી જન્મ દિવસમાં, તે તેની ઉંમર 12 વર્ષ પહેલા કરતા બમણી હશે. આજે અરુણની ઉંમર કેટલી છે ?  
 (A) 26 વર્ષ (B) 24 વર્ષ  
 (C) 27 વર્ષ (D) 25 વર્ષ

042. In the year 2024, which of the following Ayurvedacharya is awarded 'Padmashree' in the field of medicine ?  
(A) Jagadish Trivedi (B) Dayal Mavaji Paramar  
(C) Tejas Patel (D) Yajhadi Italiya
043. Which indigenous assault rifle was recently launched by DRDO?  
(A) ASMI (B) UGRAM  
(C) SCORPION (D) INSAS
044. Which Union Territory has become the first Union Territory to implement the PM Vishvakarama Scheme ?  
(A) Chandigarh (B) Lakshadweep  
(C) Jammu and Kashmir (D) Ladakh
045. Which state has the largest reserves of Lignite ?  
(A) Maharashtra (B) Karnataka  
(C) Andhra Pradesh (D) Tamilnadu
046. Who is considered as the father of India's Nuclear Programme ?  
(A) Homi Shethna (B) Raja Ramanna  
(C) Dr. Homi Jahangir Bhabha (D) Shanti Swaroop Bhatanagar
047. In which Solar Observatory House (Vedhshala) The Multi Application Telescope is there ?  
(A) Bangalore (B) Mount Abu  
(C) Shree Harikota (D) Udaipur
048. Which of the following trees is believed an environmental hazard ?  
(A) Neem (B) Chir Devadar  
(C) Eucalyptus (Nilgiris) (D) Acacia (Baval)
049. What is the name of the Radar System used in India's Defense Shield System ?  
(A) Green Pine System (B) Trinetra Radar System  
(C) Sordfish Radar System (D) Divya Chakshu
050. The Food and Drug Administration of America has approved to the world's first vaccine for 'CHIKANGUNIYA'. What is the name of approved vaccine ?  
(A) Hib (B) DTaP  
(C) Covishield (D) Ixchiq
051. Two train tickets from city P to city Q and three tickets from city P to city R cost Rs. 95 but three tickets from city P to city Q and two tickets from city P to city R cost Rs 90. What are the fares for cities Q and R from P respectively?  
(A) Rs. 15 and Rs. 23 (B) Rs. 14 and Rs. 24  
(C) Rs. 16 and Rs. 21 (D) Rs. 15 and Rs. 21
052. Arun is celebrating his birthday today. In his next birthday, he will be twice his age that was 12 years ago. How old is Arun today?  
(A) 26 Years (B) 24 Years  
(C) 27 Years (D) 25 Years

053. ત્રણ રંગીન બોક્સમાં - લાલ, લીલો અને વાદળી 108 બોલ મૂકવામાં આવ્યા છે. લીલા અને લાલ બંને બોક્સમાં ભેગા થઈને વાદળી બોક્સ કરતા બમણા બોલ્સ છે અને વાદળી બોક્સમાં લાલ બોક્સમાં છે તેના કરતાં બમણા બોલ્સ છે. લીલા બોક્સમાં કેટલા બોલ્સ છે?
- (A) 18 (B) 36  
(C) 45 (D) 54
054. A, B, C નો પગાર 5 : 3 : 2 ના ગુણોત્તરમાં છે. જો આવતા વર્ષે તેઓને તેમના પગારમાં અનુક્રમે 20%, 25% અને 30% નો વધારો મળે, તો તેમના પગારનો નવો ગુણોત્તર શું હશે?
- (A) 122 : 11 : 39 (B) 122 : 10 : 8  
(C) 120 : 75 : 52 (D) 120 : 71 : 59
055. 5 ના સળંગ ત્રણ ગુણાંકનો સરવાળો 285 છે. સૌથી મોટી સંખ્યા કઈ છે?
- (A) 75 (B) 100  
(C) 120 (D) 90
056. બે ધન સંખ્યાના HCF અને LCM અનુક્રમે 4 અને 80 છે. જો કોઈ એક સંખ્યા અન્ય કરતા 4 વધારે હોય, તો નાની સંખ્યા શોધો.
- (A) 16 (B) 32  
(C) 12 (D) 20
057. આપેલ વિકલ્પમાંથી કયો ચિહ્નની અદલાબદલી કર્યા પછી આપેલ સમીકરણને યોગ્ય બનાવશે?
- $24 + 6 \times 3 \div 3 - 1 = 14$
- (A) + અને ÷ (B) × અને -  
(C) × અને + (D) - અને ÷
058. નીચેના શબ્દોને તાર્કિક અને અર્થપૂર્ણ ક્રમમાં ગોઠવો.
1. ચતુર્ભુજ 2. સપ્તકોણ 3. પંચકોણ 4. ષોડશકોણ 5. દ્વાદશકોણ
- (A) 4, 5, 2, 3, 1 (B) 1, 3, 5, 2, 4  
(C) 1, 5, 3, 2, 4 (D) 4, 2, 3, 5, 1
059. અબ્દુલ પાસે 6 કિલો, 5 કિલો અને 2 કિલો વજનના 3 પથ્થરો છે. નીચેનામાંથી કઈ વસ્તુનું વજન આ 3 પથ્થરોનો ઉપયોગ કરીને માપી શકાતું નથી?
- (A) 3 કિગ્રા (B) 4 કિગ્રા  
(C) 7 કિગ્રા (D) 10 કિગ્રા
060. અનિલ સની કરતા લાંબો છે જે બેબી કરતા ટૂંકા છે. અનિલ બોઝ કરતા ઉંચો છે જે સની કરતા ટૂંકા છે. બેબી અનિલ કરતાં ટૂંકી છે. સૌથી ટૂંકું કોણ છે?
- (A) બોઝ (B) બેબી  
(C) અનિલ (D) સની
061. A 4 kmphની ઝડપે ચાલવાનું શરૂ કરે છે અને 4 કલાક પછી, B એ A ના બિંદુથી એ જ દિશામાં 10 kmphની ઝડપે સાયકલ ચલાવવાનું શરૂ કરે છે. શરૂઆતના બિંદુથી કેટલા અંતર પછી B એ A સાથે પકડશે (બે દશાંશ સ્થાનોથી યોગ્ય)?
- (A) 25.67 કિમી (B) 24.67 કિમી  
(C) 23.67 કિમી (D) 26.67 કિમી

053. In three coloured boxes – Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box?
- (A) 18 (B) 36  
(C) 45 (D) 54
054. The salary of A, B, C are in the ratio of 5 : 3 : 2. If next year they get increment of 20%, 25% and 30% respectively in their salaries, then what will be the new ratio of their salaries?
- (A) 122 : 11 : 39 (B) 122 : 10 : 8  
(C) 120 : 75 : 52 (D) 120 : 71 : 59
055. The sum of three consecutive multiples of 5 is 285. What is the largest number?
- (A) 75 (B) 100  
(C) 120 (D) 90
056. The HCF and LCM of two positive numbers are 4 and 80 respectively. If one of the number is 4 more than other, find the smaller number.
- (A) 16 (B) 32  
(C) 12 (D) 20
057. Which of the given option will make the given equation correct after interchanging the sign?  
 $24 + 6 \times 3 \div 3 - 1 = 14$
- (A) + and  $\div$  (B)  $\times$  and –  
(C)  $\times$  and + (D) – and  $\div$
058. Arrange the following words in logical and meaningful order.  
 1. Quadrilateral 2. Heptagon 3. Pentagon 4. Hexadecagon 5. Dodecagon
- (A) 4, 5, 2, 3, 1 (B) 1, 3, 5, 2, 4  
(C) 1, 5, 3, 2, 4 (D) 4, 2, 3, 5, 1
059. Abdul has 3 stones of weight 6 kg, 5 kg and 2 kg. An object of which of the following weight cannot be measured using these 3 stones on a weighing balance?
- (A) 3 kg (B) 4 kg  
(C) 7 kg (D) 10 kg
060. Anil is taller than Sunny who is shorter than Baby. Anil is taller than Bose who is shorter than Sunny. Baby is shorter than Anil. Who is shortest?
- (A) Bose (B) Baby  
(C) Anil (D) Sunny
061. A starts walking at 4 kmph and after 4 hours, B starts cycling from the same point as that of A, in the same direction at 10 kmph. After how much distance from the starting point will B catch up with A (correct to two decimal places)?
- (A) 25.67 km (B) 24.67 km  
(C) 23.67 km (D) 26.67 km

062. ત્રણ સંખ્યાઓનો સરવાળો 98 છે. જો પ્રથમ અને બીજાનો ગુણોત્તર 2 : 3 છે અને બીજા અને ત્રીજાનો ગુણોત્તર 5 : 8 છે, તો બીજા સંખ્યા છે?
- (A) 60 (B) 30  
(C) 20 (D) 34
063. શોધો કે પરિમાણ લંબાઈ 1040 સેમી અને પહોળાઈ 280 સેમીના લંબચોરસ ગોડાઉન ફ્લોરને આવરી લેવા માટે 26 સેમી લંબાઈ અને 14 સેમી પહોળાઈની કેટલી ટાઈલ્સની જરૂર પડશે?
- (A) 800 (B) 364  
(C) 1040 (D) 400
064. એક યોગીનો જન્મ 1840 B. C. માં થયો હતો. તેણે તેના જીવનનો એક તૃતીયાંશ ભાગ એક છોકરા તરીકે, તેના જીવનનો પાંચમો ભાગ યુવાનીમાં, એક ચતુર્થાંશ જીવન એક માણસ તરીકે અને બાકીના 39 વર્ષ વૃદ્ધ તરીકે જીવ્યા હતા, કયા B. C. વર્ષમાં મૃત્યુ પામ્યા હતા?
- (A) 1660 (B) 2020  
(C) 1680 (D) 2000
065. આઠ મિત્રો કેટરિના, કરીના, માધુરી, જુહી, રાની, ઐશ, પ્રીતિ અને કાજોલ ઉત્તર તરફ મુખ કરીને એક પંક્તિમાં બેસે છે. જરૂરી નથી કે કરીના અને કાજોલ એક જ ક્રમમાં પંક્તિના અંતે બેસે. ઐશ, જુહી અને માધુરીની વચ્ચે બરાબર બેસે છે. ઐશની ડાબી બાજુએ માત્ર બે મિત્રો બેસે છે. રાની પ્રીતિની જમણી બાજુએ બેઠી. કેટરિનાની જમણી બાજુ માત્ર એક જ વ્યક્તિ બેસે છે. ડાબી બાજુથી પાંચમા સ્થાને કોણ બેસે છે?
- (A) રાની (B) માધુરી  
(C) પ્રીતિ (D) જુહી
066. જો  $x = \sqrt{12} - \sqrt{9}$ ,  $z = \sqrt{11} - \sqrt{8}$  અને  $z = \sqrt{11} - \sqrt{8}$ , તો નીચેનામાંથી કયું સાચું છે?
- (A)  $z > x > y$  (B)  $z > y > x$   
(C)  $y > x > z$  (D)  $y > z > x$
067. કોમોડિટી Xની કિંમત દર વર્ષે 40 પૈસા વધે છે, જ્યારે કોમોડિટી Y ની કિંમત દર વર્ષે 15 પૈસા વધે છે. જો 2001 માં, કોમોડિટી X ની કિંમત રૂ. 4.20 અને Y ના તે રૂ. 6.30 હતા, કયા વર્ષમાં કોમોડિટી Xની કિંમત કોમોડિટી Y કરતાં 40 પૈસા વધુ હશે?
- (A) 2010 (B) 2011  
(C) 2012 (D) 2013
068. 'ADMIT' શબ્દના દરેક અક્ષરો મૂળાક્ષરોના ક્રમમાં ગોઠવાયેલા છે. જે અક્ષરો ડાબેથી બીજા છે અને જે જમણેથી બીજા છે તે વચ્ચેના મૂળાક્ષરોની શ્રેણીમાં કેટલા અક્ષરો છે?
- (A) 10 (B) 6  
(C) 8 (D) 9
069. જો રેખાઓ, જેના સમીકરણો  $2x - y + 5 = 0$  અને  $px + 3y = 4$  એકબીજાને લંબરૂપ હોય તો  $p$  ની કિંમત શોધો.
- (A) 1/2 (B) 3/2  
(C) 2/3 (D) 1
070.  $n$  બોક્સમાં  $m$  ફળો છે. જો આપણે દરેક બોક્સમાં 3 ફળો મૂકીએ તો 3 ફળો વધારે હશે. જો આપણે દરેક બોક્સમાં 4 ફળો મૂકીએ તો 1 બોક્સ વધારે પડશે. બોક્સ અને ફળોની સંખ્યા શોધો?
- (A) 3 અને 9 (B) 6 અને 19  
(C) 7 અને 24 (D) 5 અને 18

062. The sum of three numbers is 98. If the ratio of the first to the second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:  
 (A) 60 (B) 30  
 (C) 20 (D) 34
063. Find how many tiles of dimensions length 26 cm and breadth 14 cm will be required to cover a rectangular godown floor of dimensions length 1040 cm and breadth 280 cm?  
 (A) 800 (B) 364  
 (C) 1040 (D) 400
064. A yogi was born in 1840 B. C. He had lived one-third of his life as a boy, one-fifth of his life as a youth, one-fourth of his life as a man and remaining 39 years as an old man, which B. C. year did he die?  
 (A) 1660 (B) 2020  
 (C) 1680 (D) 2000
065. Eight friends Katrina, Kareena, Madhuri, Juhi, Rani, Aish, Preeti, and Kajol sit in a row facing north. Kareena and Kajol sit at the end of the row not necessarily in the same order. Aish sits exactly between Juhi and Madhuri. Only two friends sit to the left of Aish. Rani sits to the immediate right of Preeti. Only one person sits to the right of Katrina. Who sits fifth from the left?  
 (A) Rani (B) Madhuri  
 (C) Preeti (D) Juhi
066. If  $x = \sqrt{12} - \sqrt{9}$ ,  $y = \sqrt{13} - \sqrt{10}$  and  $z = \sqrt{11} - \sqrt{8}$ , then which of the following is true?  
 (A)  $z > x > y$  (B)  $z > y > x$   
 (C)  $y > x > z$  (D)  $y > z > x$
067. The price of commodity X increases by 40 paise every year, while the price of commodity Y increases by 15 paise every year. If in 2001, the price of commodity X was Rs. 4.20 and that of Y was Rs. 6.30, in which year commodity X will cost 40 paise more than the commodity Y?  
 (A) 2010 (B) 2011  
 (C) 2012 (D) 2013
068. Each of the letters in the word 'ADMIT' is arranged in alphabetical order. How many letters are there in the alphabetical series between the letters which is second from the left and the one which is second from the right?  
 (A) 10 (B) 6  
 (C) 8 (D) 9
069. Find the value of  $p$  if the lines, whose equations are  $2x - y + 5 = 0$  and  $px + 3y = 4$  are perpendicular to each other.  
 (A)  $1/2$  (B)  $3/2$   
 (C)  $2/3$  (D) 1
070. There are  $n$  boxes and  $m$  fruits. If we put 3 fruits in each box 3 fruits will be excess. If we put 4 fruits in each box 1 box will be excess. Find number of boxes and fruits ?  
 (A) 3 and 9 (B) 6 and 19  
 (C) 7 and 24 (D) 5 and 18

071. એક શિબિરમાં, યોખા 75 પુરુષો અથવા 150 બાળકોને ખવડાવી શકે છે. જો 100 બાળકોએ ભોજન લીધું હોય, તો કેટલા પુરુષો બાકીના યોખા સાથે ભોજન કરશે?
- (A) 15 (B) 25  
(C) 50 (D) 75
072. A અને B બે સંખ્યાઓની સરેરાશ 20 છે, B અને Cની 19 અને C અને Aની સરેરાશ 21 છે. A ની કિંમત શું છે?
- (A) 24 (B) 22  
(C) 20 (D) 18
073. 130 અંશના પૂરક કોણનો કોટિકોણ શું છે?
- (A) 50 (B) 30  
(C) 40 (D) 70
074. A.P નું 6ઠ્ઠું અને 17મું પદ અનુક્રમે 19 અને 41 છે, 40મી પદ શોધો?
- (A) 60 (B) 88  
(C) 87 (D) 89
075. સાચા જવાબનું અનુમાન લગાવવાની સંભાવના  $x/12$  છે, જો સાચા જવાબનું અનુમાન ન કરવાની સંભાવના  $2/3$  છે તો  $x$  ની કિંમત શું છે?
- (A) 2 (B) 3  
(C) 4 (D) 5
076.  $x$  અને 30 નું ત્રીજું પ્રમાણ શોધો, જ્યારે  $45 : 12 :: 75 : x$ .
- (A) 45 (B) 75  
(C) 12 (D) 30
077. જ્યારે કોઈ આર્ટિકલ રૂ.800 માં વેચવામાં આવે ત્યારે મળેલો નફો, જ્યારે તેને રૂ.275 માં વેચવામાં આવે ત્યારે થતા નુકસાનના 20 ગણા છે. જો 25% નફો મેળવવાની ઈચ્છા હોય તો તેને કયા ભાવે વેચવી જોઈએ.
- (A) 375 (B) 475  
(C) 300 (D) 500
078. મુદ્દલ અને વ્યાજની રકમ કેટલી હશે જો રૂ. 860 નું 2 વર્ષ માટે 2 પૈસા પ્રતિ મહિને રોકાણ કરવામાં આવે છે?
- (A) રૂ. 1227.80 (B) રૂ. 1722.80  
(C) રૂ. 1272.80 (D) રૂ. 1722
079. ચોક્કસ કોડેડ ભાષામાં 'OBTAIN'ને 'NATBOI' અને 'BEGGER'ને 'RGGEBE' તરીકે લખવામાં આવે છે. તે ભાષામાં 'RUGGED' કેવી રીતે લખાશે?
- (A) DGUGRE (B) DGGUER  
(C) GGURED (D) DGGURE
080. કયો સહસંબંધ સૌથી મજબૂત સંબંધ દર્શાવે છે?
- (A) 0.23 (B) -0.98  
(C) 0.89 (D) 0.54



071. In a camp, the rice can feed 75 men or 150 children. If 100 children have taken the meal, how many men will be catered with remaining rice?
- (A) 15 (B) 25  
(C) 50 (D) 75
072. The average of two numbers A and B is 20, that of B and C is 19 and C and A is 21. What is the value of A?
- (A) 24 (B) 22  
(C) 20 (D) 18
073. The complimentary angle of supplementary angle of 130 degree is?
- (A) 50 (B) 30  
(C) 40 (D) 70
074. The 6th and 17th term of an A. P are 19 and 41 respectively, find the 40th term?
- (A) 60 (B) 88  
(C) 87 (D) 89
075. Probability of guessing correct answer is  $x/12$ , if the probability of not guessing correct answer is  $2/3$  what is the value of  $x$ ?
- (A) 2 (B) 3  
(C) 4 (D) 5
076. Find the third proportion of  $x$  and 30, when  $45 : 12 :: 75 : x$ .
- (A) 45 (B) 75  
(C) 12 (D) 30
077. The profit earned when an article is sold for Rs. 800 is 20 times the loss incurred when it is sold for Rs. 275. At what price should the article be sold if it is desired to make a profit of 25%.
- (A) 375 (B) 475  
(C) 300 (D) 500
078. What will be the amount of principal and interest if Rs. 860 is invested for 2 years at 2 paise per rupee per month?
- (A) Rs. 1227.80 (B) Rs. 1722.80  
(C) Rs. 1272.80 (D) Rs. 1722
079. In a certain coded language 'OBTAIN' is written as 'NATBOI' and 'BEGGER' is written as 'RGGEBE'. How will 'RUGGED' be written in that language?
- (A) DGUGRE (B) DGGUER  
(C) GGURED (D) DGGURE
080. Which correlation represents the strongest relationship?
- (A) 0.23 (B) -0.98  
(C) 0.89 (D) 0.54

081. બધી જોડણી સાચી હોય તેવો વિકલ્પ પસંદ કરો.

(A) અલૌકિક, મોંસૂઝણું, દીક્ષિત, ઉત્તેજિત

(B) ઉર્ધ્વગામી, રોજનીશી, ઋજુતા, વિલિન

(C) ગિલ્લીદંડો, ચતુભુજ, ટિકીટ, મિનિટ

(D) પુરુષાર્થ, કબુલ, શિથિલ, સ્વભાવિક

082. નીચે આપેલા જૂથ ધ્યાને લઈ સમાનાર્થી શબ્દો વિશે યોગ્ય વિકલ્પ પસંદ કરો.

1. તેગ, સમશેર, તલવાર, અસિ

2. વલ્લભ, ભ્રાતા સ્વામી, કંથ

3. અર્કિચન, કંકાલ, પામર, રંક

4. આસક્તિ, મોહ, અનુરાગ, લગની

(A) ફક્ત 1 અને 2 યોગ્ય છે.

(B) ફક્ત 3 અને 4 યોગ્ય છે.

(C) ફક્ત 1, 2 અને 4 યોગ્ય છે.

(D) ફક્ત 1 અને 4 યોગ્ય છે.

083. નીચે આપેલા જૂથ ધ્યાને લઈ વિરુદ્ધાર્થી શબ્દો વિશે યોગ્ય વિકલ્પ પસંદ કરો.

1. રચનાત્મક × પ્રયોગાત્મક

2. અલ્પોક્તિ × અત્યુક્તિ

3. આગેકૂચ × ઢાંડીકૂચ

4. ઉત્થાન × પુનરુત્થાન

(A) ફક્ત 1 યોગ્ય છે.

(B) ફક્ત 2 યોગ્ય છે.

(C) ફક્ત 2 અને 4 યોગ્ય છે.

(D) ફક્ત 1 અને 3 યોગ્ય છે.

084. નીચે આપેલા રૂઢિપ્રયોગ અને તેના અર્થ માટે યોગ્ય વિકલ્પ પસંદ કરો.

રૂઢિપ્રયોગ

અર્થ

1. ફરીને ઊભા રહેવું

— ઊંધા ઊભા રહેવું

2. મોં ભાગી જવું

— ગમે તેમ બોલવું

3. નબળી રગ હાથ આવવી

— મનોવૃત્તિ પારખી જવી

4. ગાંઠ વાળવી

— નક્કી કરવું

(A) ફક્ત 1 અને 4 યોગ્ય છે.

(B) ફક્ત 2 અને 3 યોગ્ય છે.

(C) ફક્ત 3 અને 4 યોગ્ય છે.

(D) 1, 2, 3 અને 4 બધા જ યોગ્ય છે.

085. નીચે આપેલી કહેવતોને ધ્યાને લઈ તેના વિશે સાચો વિકલ્પ પસંદ કરો.

1. રાખે શરમ એનું ફૂટે કરમ

2. લીલા વનના સૂડા ઘણા

3. મધ હોય ત્યાં માકી ભમે

4. જેણે મૂકી લાજ એનું નાનું સરખું રાજ

(A) 1 અને 4 વિરુદ્ધાર્થી કહેવતો છે, 2 અને 3 સમાનાર્થી કહેવતો છે.

(B) 1 અને 2 સમાનાર્થી કહેવતો છે, 2 અને 4 વિરુદ્ધાર્થી કહેવતો છે.

(C) 1 અને 4 સમાનાર્થી કહેવતો છે, 1 અને 3 વિરુદ્ધાર્થી કહેવતો છે.

(D) 1 અને 3 સમાનાર્થી કહેવતો છે, 1 અને 2 વિરુદ્ધાર્થી કહેવતો છે.

086. નીચે આપેલા સામાસિક શબ્દ અને તેના પ્રકાર વિશે યોગ્ય વિકલ્પ પસંદ કરો.

સામાસિક શબ્દ	પ્રકાર
1. પાપડતોડ	— ઉપપદ
2. લાગણીપ્રધાન	— પહુવ્રીહિ
3. ઘોઘાબાપા	— કર્મધારય
4. અનુભવજ્ઞાન	— તત્પુરુષ

(A) ફક્ત 1 અને 4 યોગ્ય છે.

(B) ફક્ત 2 અને 3 યોગ્ય છે.

(C) ફક્ત 3 અને 4 યોગ્ય છે.

(D) 1, 2, 3 અને 4 બધા જ યોગ્ય છે.

087. નીચે આપેલી સંધિ વિશે સાચો વિકલ્પ પસંદ કરો.

1. અંતઃ + તાપ = અંતસ્તાપ      2. દુઃ + ટ = દુષ્ટ      3. નિઃ + દુર = નિષ્કુર      4. સરઃ + જ = સરોજ

(A) ફક્ત 1 અને 2 સાચા છે.

(B) ફક્ત 3 અને 4 સાચા છે.

(C) 1, 2, 3 અને 4 બધા જ સાચા છે.

(D) 1, 2, 3 અને 4 બધા જ ખોટા છે.

088. નીચે આપેલા અલંકારોના ઉદાહરણ ધ્યાને લઈ તેના પ્રકારનો યોગ્ય વિકલ્પ પસંદ કરો.

‘હાથ ગૂંથેલ એના હેમના રે લોલ, હૈયું હેમંત કેરી હેલ રે’

1. ઉપમા      2. અંત્યાનુપ્રાસ      3. રૂપક      4. વર્ણાનુપ્રાસ

(A) ફક્ત 1 અને 2 યોગ્ય છે.

(B) ફક્ત 3 અને 4 યોગ્ય છે.

(C) ફક્ત 1, 3 અને 4 યોગ્ય છે.

(D) 1, 2, 3 અને 4 બધા જ યોગ્ય છે.

089. છંદના પ્રકાર અને ઉદાહરણ વિષે નીચે પૈકી કયું / કયા જોડકું / જોડકાં સાચું / સાચાં છે ?

છંદ	ઉદાહરણ
1. સવૈયો	— કોણ બદલતું સંધ્યાકાશે પલપલ નવલાં પ્રેમળ ચીર ?
2. ઝૂલણા	— નિરખને ગગનમાં કોણ ઘૂમી રહ્યો તે જ હું, તે જ હું શબ્દ બોલે
3. સ્ત્રગ્ધરા	— તે તારા ઠરકારથી સકળનાં ચોરી લીધાં ચિત્તને.
4. ચોપાઈ	— ચાર પગો ને આંચળ ચાર, પૂંછડાથી ઉડાડે વાય.

(A) ફક્ત 1 અને 4 સાચા છે.

(B) ફક્ત 1 અને 3 સાચા છે.

(C) ફક્ત 2 અને 3 સાચા છે.

(D) 1, 2, 3 અને 4 બધા જ સાચા છે.

090. નીચે વિગતોને ધ્યાને લઈ યોગ્ય વિકલ્પ પસંદ કરો.

(A) તત્પુરુષ સમાસઃ શાંતિકર

(B) પુત્ર + એષણા = પુત્રેષણા

(C) ભુજંગી છંદઃ કહી એમ માથે લઈ ભાત ચાલી, મૂકી માર્ગ ધોરી, ટૂંકી વાટ ઝાલી.

(D) સજીવારોપણ અલંકારઃ કવિતાજહાજનો તે ભાંગી પડ્યો કૂવાથંભ.

091. On \_\_\_\_\_ cold December evening, \_\_\_\_\_ telephone kept ringing in my office.  
 (A) a / the (B) No article / No article  
 (C) A / No article (D) No article / the
092. My younger brother is accustomed \_\_\_\_\_ sleeping in total darkness.  
 (A) by (B) with  
 (C) to (D) from
093. He hardly stays back at home on weekends, \_\_\_\_\_? (*Select the correct question tag*)  
 (A) doesn't he? (B) does he?  
 (C) aren't he? (D) Isn't he?
094. It \_\_\_\_\_ that, by tomorrow evening, the amount of donations \_\_\_\_\_ twice as much as it is now.  
 (A) appeared / will have risen (B) appears / would have been rising  
 (C) appeared / would have been rising (D) appears / will have risen
095. The officers were planning \_\_\_\_\_ the meeting, but the representatives were not willing \_\_\_\_\_ the discussion.  
 (A) Have postponed / to have stopped (B) to postpone / to stop  
 (C) postponing / stopped (D) to postpone / stopping
096. The money in our pocket \_\_\_\_\_ far less today than it \_\_\_\_\_ ten years ago.  
 (A) could buy / would (B) can buy / had  
 (C) should buy / had (D) might buy / should
097. We saw \_\_\_\_\_ beautiful scenery on the way to Jaipur.  
 (A) too much (B) a few  
 (C) a little of (D) some
098. Is he not working? (*Change the voice*)  
 (A) The work is not being done by him. (B) The work is not done by him.  
 (C) Is the work not being done by him? (D) Has the work not done by him?
099. Very few fruits are as \_\_\_\_\_ as mangoes.  
 (A) tasty (B) tastier  
 (C) tastiest (D) most tasty
100. They were sitting \_\_\_\_\_ the pool, talking about the \_\_\_\_\_.  
 (A) beside / whether (B) besides / weather  
 (C) besides / wither (D) beside / weather

101. The point just vertically below the observers' position in a celestial sphere is called:  
 (A) Celestial point (B) Nadir  
 (C) Zenith (D) Pole
102. The minimum numbers of satellite needed for GPS to determine its position precisely is:  
 (A) 2 (B) 3  
 (C) 4 (D) 24
103. Pick up the correct statement regarding the electromagnetic spectrum:  
 (A) Visible region  $0.4\mu\text{m}-0.7\mu\text{m}$  (B) IR region  $0.7\mu\text{m}-80\mu\text{m}$   
 (C) UV region  $0.3\mu\text{m}-0.4\mu\text{m}$  (D) Micro wave region 1-200 cm
104. The discontinuity between crust and mantle is known as:  
 (A) Mohorovicic Discontinuity (B) Conard Discontinuity  
 (C) Repetti Discontinuity (D) Lehmann Discontinuity
105. The name of the layer of the Earth that separates the crust from the core is the:  
 (A) Magma (B) Lithosphere  
 (C) Asthenosphere (D) Mantle
106. Dip of a bed is a vector quantity because it has got:  
 (A) Direction. (B) Magnitude.  
 (C) Direction and magnitude. (D) None of these.
107. The plunge and pitch are equal when the beds are:  
 (A) Horizontal. (B) Inclined.  
 (C) Inclined at  $45^\circ$ . (D) Vertical.
108. The dip of a horizontal bed striking E-W is measured in the:  
 (A) Horizontal Plane (B) Vertical Plane  
 (C) Axial Plane (D) Inclined Plane
109. The behavior of perfectly elastic bodies is governed by:  
 (A) Hooke's law (B) Hilt's Law  
 (C) Lambert's Law (D) Bede's Law
110. Which of the following mineral has highest specific gravity?  
 (A) Wolframite (B) Pyrite  
 (C) Magnetite (D) Hematite
111. Which of the following minerals is isotropic under the microscope?  
 (A) Garnet (B) Plagioclase  
 (C) Biotite (D) Quartz
112. Which of the following accessory plates is used to obtain interference figures?  
 (A) Gypsum Plate (B) Bertrand Lense  
 (C) Mica Plate (D) Quartz Wedge
113. Ilmenite crystallizes in which crystal system?  
 (A) Orthorhombic (B) Tetragonal  
 (C) Monoclinic (D) Hexagonal

114. The type of sandstone where cementing material is clay is:  
 (A) Siliceous sandstone (B) Calcareous sandstone  
 (C) Argillaceous sandstone (D) Ferruginous sandstone
115. The term orthoquartzite is associated with which type of sandstone?  
 (A) Quartz Arenite (B) Calcareous sandstone  
 (C) Argillaceous sandstone (D) Ferruginous sandstone
116. Which of the following lists is written in order of decreasing particle size?  
 (A) Sandstone, siltstone, conglomerate  (B) Conglomerate, sandstone, siltstone  
 (C) Sandstone, conglomerate, siltstone (D) Siltstone, sandstone, conglomerate
117. Which of the following sedimentary environments is characterized by sand, gravel and mud?  
 (A) Active margin beach  (B) Glacial  
 (C) Alluvial fans (D) Deep marine
118. Which of the following sandstone types is most likely to form by the mechanical weathering of granite?  
 (A) Quartz arenite  (B) Arkose  
 (C) Shale (D) Litharenite
119. When fine-grained sediments at the bottom of shallow water are exposed to air, they dry out to form structures known as:  
 (A) Ripple cracks (B) Water marks  
 (C) Ripple marks (D) Mud cracks
120. In which of the following sedimentary environments would you least expect to find gravel?  
 (A) Active margin beach (B) Alluvial fans  
 (C) Glacial (D) Deep marine
121. Fossil contents of intestine or excreta of many ancient animals:  
 (A) Gastrolith  (B) Coprolites  
 (C) Otholiths (D) Ammonites
122. Which form of the graptolites is well known during upper Cambrian age?  
 (A) Tetragraptus (B) Clonograptus  
 (C) Bryograptus (D) All the above
123. One of the plate of the apical disc in an echinoid shell is perforated, this plate is known as:  
 (A) Ocular plates (B) Genital plate  
 (C) Med reproach plate (D) Ambulacra plate
124. The Cephalopods are \_\_\_\_\_ water animal.  
 (A) Marine (B) Terrestrial  
 (C) Fresh (D) Brackish
125. The rock salt may be formed by:  
 (A) Continued evaporation (B) Erosion  
 (C) Wind (D) Continued precipitation

126. Arrange the following granitoids bodies in order of their decreasing age.  
 P. Erinpura Granite  
 Q. Closepet Granite  
 R. Singhbhum Granite  
 S. Ladakh Granitoids  
 (A) R - P - R - S (B) S - Q - R - P  
 (C) R - Q - P - S (D) Q - R - S - P
127. Which of the following formation(s) was/were deposited in glacial and/or fluvial environment?  
 (A) Subathu Formation (B) Indus Formation  
 (C) Karewa Formation (D) None of these
128. Which of the following is the youngest?  
 (A) Muth Quartzite (B) Lameta Beds  
 (C) Golden Oolite (D) Karewas
129. Glossopteris is a plant fossil known from the rocks of:  
 (A) Upper Gondwana (B) Middle Gondwana  
 (C) Lower Gondwana (D) Rajmahal
130. Which Group belongs to Cuddapah Basin  
 (A) Semri Group (B) Cheyair Group  
 (C) Pakhal Group (D) Kolhan Group
131. Corals prefer to grow in:  
 (A) Polar ocean (B) Cool Subtropical ocean  
 (C) Stagnant water (D) Tropical water
132. Syringothyris is characteristic fossils of:  
 (A) Silurian (B) Ordovician  
 (C) Carboniferous (D) Cambrian
133. Which of the following transition element is incompatible in basalt?  
 (A) Chromium (B) Vanadium  
 (C) Manganese (D) Titanium
134. Dacite is a volcanic equivalent of:  
 (A) Syenite (B) Lherzolite  
 (C) Gabbro (D) Granodiorite
135. Rocks derived from the primary basaltic magma are characterized by:  
 (A) Occurrence of olivine and clinopyroxene (B) Absence of olivine and feldspathoid  
 (C) Presence of clinopyroxene and quartz (D) Presence of feldspar and quartz
136. Where are the volcanic rocks formed?  
 (A) Under the surface of earth (B) On the surface of earth  
 (C) Inside the core (D) Between mantle
137. Spinifex texture present in  
 (A) Kimberlite (B) Komatiite  
 (C) Gabbro (D) Andesite

138. Which of the following pair of rock and eruptive setting is correctly matched?  
 (A) Schoshonite – Active continental margin    (B) Carbonatite – Ocean island  
 (C) Boninite – Mid oceanic ridge                      (D) Trachyte – Ocean-continent collision
139. Igneous rocks with lowest content of silica are known as  
 (A) Mafic rocks    (B) Felsic rocks  
 (C) Porphyry     (D) Ultramafic rocks
140. Metasomatism is:  
 (A) The change in the bulk composition of a rock during metamorphism  
 (B) Metamorphism caused by nearby intrusions  
 (C) Metamorphism caused by tectonic movements along faults  
 (D) The parallel alignment of minerals in a metamorphic rock
141. Which of the following sets is arranged in order of increasing metamorphic grade?  
 (A) Shale - slate - phyllite                              (B) Phyllite - gneiss - schist  
 (C) Phyllite - slate - schist                              (D) Schist - shale – gneiss
142. Which of the following metamorphic rocks forms in the forearc of a subduction zone?  
 (A) Amphibolite     (B) Blueschist  
 (C) Quartzite    (D) Gneiss
143. Which of the following index minerals forms at the highest metamorphic grade?  
 (A) Chlorite    (B) Sillmanite  
 (C) Biotite     (D) Garnet
144. Which of the following metamorphic facies represent rocks that were metamorphosed under the highest pressure conditions recognized by geologists?  
 (A) Eclogite    (B) Amphibolite  
 (C) Greenschist    (D) Granulite
145. Isotherms are curves or surfaces of equal  
 (A) Composition    (B) Volume  
 (C) Pressure     (D) Temperature
146. Typical platy minerals defining a foliation include.  
 (A) Chlorite     (B) Muscovite  
 (C) Pyroxene    (D) Hornblende
147. Which of these rocks could be an important source of diamonds?  
 (A) Komatiite    (B) Gabbro  
 (C) Eclogite     (D) Kimberlite
148. Chromite deposits are associated with \_\_\_\_\_ rocks:  
 (A) Pigmatic    (B) Felsic  
 (C) Ultramafic    (D) Leucocratic
149. Epigenetic deposits are formed:  
 (A) At the time deposits are formation of host rock  
 (B) After the formation of the host rock  
 (C) Both of the above  
 (D) None of the above



150. Layered igneous rocks could be good sites for the mineralization of:  
 (A) Gold (B) Tungsten  
 (C) Chromite (D) Diamonds
151. What type of metamorphism is caused by high temperature and high pressure imposed over a large volume of crust.  
 (A) Burial (B) Contact  
 (C) Regional (D) Cataclastic
152. Which of the following processes will cause metamorphism?  
 (A) A change in the chemical environment (B) An increase in temperature  
 (C) An increase in pressure (D) All of these
153. The mineral assemblage of Khondalite is:  
 (A) Plagioclase - garnet - hypersthene - quartz schist  
 (B) Plagioclase - hypersthene - diopside - garnet schist  
 (C) Quartz - perthite - hypersthene - garnet schist  
 (D) Garnet - sillimanite - graphite schist
154. Which element % is used to check groundwater for irrigation purpose is:  
 (A) Ca% (B) Na%  
 (C) K% (D) Fe%
155. A relatively impermeable formation neither containing nor transmitting water:  
 (A) Artesian Aquifer (B) Perched Aquifer  
 (C) Aquifuse (D) Both (A) & (B)
156. When the piezometric surfaces lie above the groundwater surface, which of the following type of well result?  
 (A) Ordinary Well (B) Well which have no water?  
 (C) Drawdown well (D) Flowing Well
157. In flat terrain, underground water basin is artificially charged by \_\_\_\_\_ method.  
 (A) Basin (B) Ditch or Furrow  
 (C) Flooding (D) Natural channel
158. Water saturated unconsolidated sediments shows \_\_\_\_\_ in Seismic velocity.  
 (A) Increase (B) Decrease  
 (C) No effect (D) Sometimes increases & sometime decreases
159. Water with hardness of ( $\text{CaCO}_3$  ppm) \_\_\_\_\_ is soft water.  
 (A) >200 ppm (B) >150 ppm  
 (C) <150 ppm (D) <75 ppm
160. Specific Yield will decrease:  
 (A) With depth (B) With grain size  
 (C) With shape (D) all of the above
161. The unit of the intrinsic permeability is:  
 (A)  $\text{m}^2$  (B) m/sec  
 (C)  $\text{m}/\text{sec}^2$  (D) unit less

162. Hydraulic Conductivity can be determined by \_\_\_\_.
- (A) Tracer test (B) Auger hole test  
(C) Pumping test of Wells (D) All of the above
163. A map which shows the surface contours of an imaginary surface to which water would rise in drilled well is termed as:
- (A) GW map (B) Water contour map  
(C) Piezometric map (D) Water table map
164. The field capacity of any soil in any depends upon:
- (A) Storage Coefficient (B) Porosity of soil  
(C) Hygroscopic co-efficient (D) None of above
165. The cleavage angle in pyroxene is:
- (A) 93 and 87 (B) 124 and 90  
(C) 90 and 90 (D) none of these
166. Which will be the correct sequence in order of increasing specific yield?
- (A) Sand-gravel-clay (B) Silt-gravel-clay  
(C) Clay-sand-gravel (D) None of the above
167. Which logging techniques are used to determine permeability is:
- (A) Long normal resistivity logs (B) Resistivity logs  
(C) Gamma-gamma logs (D) Calibrated neutron logs
168. Which of the following process is not a part of water cycle?
- (A) Transpiration (B) Sedimentation  
(C) Precipitation (D) Condensation
169. The exploitable groundwater reserves of India are estimated between
- (A) 74-80 million hectares/year (B) 12-18 million hectares/year  
(C) 42-48 million hectares/year (D) >100 million hectares/year
170. Black soil is typical soils of:
- (A) The major part of Gujarat and Maharashtra  
(B) Rajasthan  
(C) Utter Pradesh  
(D) None of the above
171. The type of mass movement characterized by a slow and gradual down slope movement is known as:
- (A) Creep (B) Rockfall  
(C) Landslide (D) Mud flow
172. The word Tsunami has been derived from:
- (A) French word (B) Latin word  
(C) Japanese word (D) Greek word
173. Factor which promotes landslide
- (A) Air, Fracture, porosity (B) Rock type, texture, composition  
(C) Water, Slope, Nature of rock (D) None of the above

174. What is active volcano?  
(A) Which show eruption after long time  
(B) Which erupt very often  
(C) Which not show eruption since very long  
(D) None of the above
175. Which one of the following is a geological disaster?  
(A) Tsunami (B) Storm surge  
(C) Flood (D) Wild fire
176. A place where an earthquake originates is called....  
(A) Focus (B) Tsunami  
(C) Fault line (D) Epicenter
177. What causes tsunami:  
(A) Sudden vertical movement of the Earth  
(B) Convergence of destructive plates in the ocean floor  
(C) Explosive volcanic eruptions in the sea/ocean  
(D) All of the above
178. A solid barrier constructed at a suitable location across a river valley to impound water is called:  
(A) Reservoir (B) Dam  
(C) Bridge (D) Retaining wall
179. Which type of dam usually has a triangular profile and can resist the forces by its own weight?  
(A) Gravity dam (B) Arch dam  
(C) Geotechnical dam (D) Embankment dam
180. Which is the longest dam in India?  
(A) Hirakud dam (B) Bhakra dam  
(C) Krishnarajasagar dam (D) Nagarjun sagar dam
181. What is the maximum force expressed per unit area, which a stone can withstand without rupturing?  
(A) Shear strength (B) Tensile strength  
(C) Compressive strength (D) Bending strength
182. Ratio between the total volume of the rock pore spaces and the total volume of the rock sample is called:  
(A) Void ratio (B) Porosity  
(C) Pores ratio (D) Bulk density
183. The Void ratio is:  
(A) Ratio between mass of voids to the volume of soil particles in a given soil mass  
(B) Ratio between volume of voids to the weight of soil particles in a given volume  
(C) Ratio between volume of voids to the volume of soil particles in a given soil mass  
(D) None of the above
184. The underground routes or passages driven through the ground without disturbing overlying soil cover are called:  
(A) Bridges (B) Passages  
(C) Tunnels (D) Sub-routes

185. Underground excavations for carrying pipes, sewage etc. fall under which type?  
 (A) Traffic tunnels (B) Hydropower tunnels  
 (C) Public utility tunnels (D) Delivery tunnels
186. Arch dams suitable in?  
 (A) Narrow valley (B) Wide valley  
 (C) Deep and wide valley (D) None of the above
187. Limestone can be used with caution in construction as:  
 (A) show fracture (B) show layering  
 (C) show solution cavity (D) show fine grain size
188. The water which in a state of downward movement under gravity is:  
 (A) Groundwater (B) Vadose water  
 (C) Connate water (D) Juvenile water
189. What is the process of movement downwards of vadose water called?  
 (A) Infiltration (B) Filtration  
 (C) Deposition (D) Down-flow
190. What is the water obtained from precipitation called?  
 (A) Meteoric water (B) Connate water  
 (C) Juvenile water (D) Secondary water
191. Water present in rocks from the time of their deposition is:  
 (A) Meteoric water (B) Connate water  
 (C) Juvenile water (D) Secondary water
192. Which zone is a zone of non-saturation among vadose water?  
 (A) Soil water (B) Intermediate water  
 (C) Phreatic water (D) Water table
193. The rock mass which is capable of yielding the contained water economically:  
 (A) Aquifer (B) Aquiclude  
 (C) Aquifuge (D) Aquitard
194. Which among the following is not an example of the good aquifer?  
 (A) Granite (B) Gravels  
 (C) Limestones (D) Sandstones
195. The formation which may be porous enough to hold enough quantity of water is:  
 (A) Aquifer (B) Aquiclude  
 (C) Aquifuge (D) Aquitard
196. Which rock formation is absolutely impermeable?  
 (A) Aquifer (B) Aquiclude  
 (C) Aquifuge (D) Aquitard
197. Granite and quartzite are examples of:  
 (A) Aquifer (B) Aquiclude  
 (C) Aquifuge (D) Aquitard
198. Which aquifer is called water table aquifer?  
 (A) Unconfined aquifer (B) Confined aquifer  
 (C) Ground aquifer (D) Connate aquifer

199. What is the pressure of upper surface of unconfined aquifer?  
 (A) Very high pressure (B) Lower than atmospheric pressure  
 (C) Equal to atmospheric pressure (D) Greater than atmospheric pressure
200. What is the upper surface of water in a confined aquifer called?  
 (A) Primary layer (B) Secondary layer  
 (C) First layer  (D) Peizometric layer
201. What is the speciality of the Artesian Water?  
 (A) Has a characteristic colour (B) Has a characteristic odour  
 (C) Requires no pumping (D) Requires special type of pumping
202. Storage capacity of a reservoir depends on:  
 (A) Porosity of rocks (B) Inter-connections  
 (C) Quality of solidity of rocks  (D) Porosity and inter-connections
203. What is the quantity of water that a unit volume of aquifer drains by gravity called?  
 (A) Porous volume (B) Water yield  
 (C) Specific yield (D) Unit yield
204. Which sedimentary rock is told to be the best kind of formation for groundwater?  
 (A) Sandstone (B) Shale  
 (C) Gravel (D) Limestone
205. The porosity range good for petroleum:  
 (A) 50 to 75% (B) 20 to 50%  
 (C) 10 to 40%  (D) 15 to 20%
206. The igneous rock basic in nature and formed by rapid cooling is:  
 (A) Granite  (B) Basalt  
 (C) Gabbro (D) Dolomite
207. When can a surface become porous and permeable or water bearing?  
 (A) Weathered (B) Weathered and wet  
 (C) Weathered and disintegrated (D) Disintegrated and wet
208. Which of the following doesn't control aquifer behaviour?  
 (A) Wind conditions (B) Nature of the rock  
 (C) Structural disposition (D) Climate conditions like precipitation
209. An aquifer can hold water \_\_\_\_\_ and the state of water is \_\_\_\_\_.  
 (A) Permanently – State of flow  (B) Temporarily – State of flow  
 (C) Permanent – State of stagnancy (D) Temporary – State of stagnancy
210. When an aquifer is used to artificially recharge by making it pass through an intervening layer, the aquifer acts as:  
 (A) A cooling agent (B) An aerating agent  
 (C) An odour agent  (D) A filter plant
211. Pick the plutonic igneous rock.  
 (A) Granite (B) Limestone  
 (C) Basalt (D) Marble

212. The mineral most abundantly present in the igneous rocks is:  
 (A) Micas (B) Titanium  
 (C) Iron (D) Feldspar
213. What is the term given when some granules are exceptionally large and few are small?  
 (A) Mixed granular (B) Equigranular  
 (C) Inequigranular (D) Unequigranular
214. What is the texture called when large-sized crystals are embedded in fine grained matrix?  
 (A) Granitic texture (B) Poiklitic texture  
 (C) Porphyritic texture (D) Directive texture
215. What is it called when two or more minerals crystallize simultaneously in a limited space?  
 (A) Directive texture (B) Intergrowth texture  
 (C) Interstitial texture (D) Intergranular texture
216. The type of concordant body whose thickness is much smaller than its length and width is:  
 (A) Sill (B) Phacolith  
 (C) Dyke (D) Laccolith
217. The shape arch or dome is shown by which type of concordant body?  
 (A) Sills (B) Lopolith  
 (C) Laccolith (D) Phacolith
218. The mineral present in green schist facies:  
 (A) Chlorite, Garnet, Albite, Orthopyroxene (B) Chlorite, Garnet, Albite, Epidote  
 (C) Chlorite, Actinolite, Albite, Epidote (D) Clinopyroxene, Garnet, Albite, Orthopyroxene
219. The metamorphic process involving formation of new minerals by chemical replacement of pre-existing minerals is:  
 (A) Metagenesis (B) Holomorphism  
 (C) Metasomatism (D) Homosomatism
220. Slate is originated from which rock?  
 (A) Sandstone (B) Granite  
 (C) Shale (D) Basalt
221. Examples of high grade schist are:  
 (A) Talc- schist (B) Garnet-schist  
 (C) Chlorite-schist (D) Mica-schist
222. The bauxite in India occurs primarily as:  
 (A) Gibbsite (B) Kaolinite  
 (C) Shieldite (D) Karinite
223. The best grade chromite in India occurs in which state?  
 (A) Karnataka (B) Rajasthan  
 (C) Orissa (D) Kerala
224. Where is the Singhbhum copper belt located?  
 (A) Karnataka (B) Madhya Pradesh  
 (C) Sikkim (D) Jharkhand

225. **Hutti gold mines are located in which state of India?**  
 (A) Karnataka (B) Madhya Pradesh  
 (C) Sikkim (D) Bihar
226. **Which is the most common ore of lead?**  
 (A) Sphalerite (B) Galena  
 (C) Chromite (D) Bauxite
227. **The place in India where Tungsten is extracted is:**  
 (A) Karnataka (B) Kerala  
 (C) Gujarat (D) Rajasthan
228. **During which time period were the Banded iron-formations (BIF) the most significant?**  
 (A) 3.9–3.6 Ga (B) 2.5–2.0 Ga  
 (C) 500–300 Ma (D) 4.0–3.7 Ga (110)
229. **In what type of boreholes can the spontaneous potential log be used?**  
 (A) Cased holes (B) Dry holes  
 (C) Open holes (D) Unstable holes
230. **What are the three main techniques for measuring the electrical resistivity of formations in boreholes?**  
 (A) Normal log, Self-Potential log, and induction log  
 (B) Normal log, Self-Potential log, and laterolog  
 (C) Normal log, laterolog, and induction log  
 (D) Self-Potential log, laterolog, and induction log
231. **What type of radiation does the neutron log measure?**  
 (A) Alpha particles (B) Beta particles  
 (C) X-rays (D) Gamma rays
232. **How does kerogen differ from bitumen?**  
 (A) Kerogen is soluble, while bitumen is insoluble in petroleum solvents.  
 (B) Kerogen is younger than bitumen.  
 (C) Kerogen is insoluble, while bitumen is soluble in petroleum solvents.  
 (D) Kerogen is found in igneous rocks, while bitumen is found in sedimentary rocks.
233. **What occurs during the phase of catagenesis in the maturation of kerogen?**  
 (A) Kerogen remains unchanged.  
 (B) Kerogen transforms into bitumen.  
 (C) Kerogen matures and releases oil and gas.  
 (D) Kerogen converts into sedimentary rocks.
234. **What role do folding and faulting play in the formation of structural traps of hydrocarbons?**  
 (A) They deform the source rock. (B) They prevent the formation of hydrocarbons.  
 (C) They have no effect on trap formation. (D) They deform the reservoir rock.
235. **What geological feature characterizes diapiric traps?**  
 (A) Folding and faulting (B) Intrusive igneous activity  
 (C) Density contrasts between strata (D) Erosion patterns

236. Which term best describes the tectonic setting of the petroliferous Cambay Basin?  
(A) Subduction zone (B) Continental collision zone  
(C) Intraplate setting (D) Transform fault zone
237. What type of reservoirs rock is found within the Olpad Formation (oil bearing)?  
(A) Limestone reservoirs (B) Vuggy Limestone reservoirs  
(C) Sand size Basalt fragment reservoirs (D) Shale reservoirs
238. What is the age of the reservoir rock in the Olpad Formation/Lower Cambay Shale (oil bearing)?  
(A) Early Eocene (B) Late Pliocene  
(C) Early Miocene (D) Late Miocene
239. What scale is used for qualitatively comparing earthquakes?  
(A) Richter Scale (B) Mercalli Scale  
(C) Gutenberg Scale (D) Seismic Scale
240. What are interplate earthquakes?  
(A) Earthquakes caused by volcanic activity  
(B) Near volcanic hotspots  
(C) Earthquakes initiated near plate boundaries  
(D) In continental interiors
241. What event led to increased awareness of the word “tsunami” among the general public, which approximately killed 250000 people in December 26, 2004?  
(A) Hurricane Katrina and tsunami (B) Typhoon Haiyan and tsunami  
(C) Indian Ocean earthquake and tsunami (D) Fukushima nuclear disaster and tsunami
242. What is the main function of the seismographs in the tsunami warning system?  
(A) Measure sea level changes  
(B) Detect changes in water pressure  
(C) Locate and determine the depth and magnitude of earthquakes  
(D) Track the movement of buoys
243. How does drainage control contribute to landslide prevention?  
(A) By creating permeable layers  
(B) By increasing water infiltration into slopes  
(C) By diverting surface and groundwater away from slopes  
(D) By increasing water saturation
244. What does the Stefan”Boltzmann Law describe?  
(A) The speed of light  
(B) The total radiation emitted by a blackbody  
(C) The behavior of magnetic fields  
(D) The relationship between wavelength and frequency
245. Which statement best describes the comparison of solar and Earth radiation?  
(A) Solar radiation is longer in wavelength than Earth radiation.  
(B) Earth radiation is primarily in the visible spectrum.  
(C) Solar radiation is predominantly short-wave, while Earth radiation is mainly long-wave.  
(D) Earth emits more radiation than the Sun.



246. Which gases contribute to the greenhouse effect?  
 (A) Oxygen and nitrogen (B) Carbon dioxide and oxygen  
 (C) Water vapor and methane (D) Helium and neon
247. What did Milutin Milankovitch hypothesize in the 1920s?  
 (A) The existence of gravitational waves  
 (B) The correlation between Earth's orbit and climate change  
 (C) The formation of glacial valleys  
 (D) The discovery of greenhouse gases
248. How is the capillary rise in the capillary zone determined?  
 (A) By the weight of the water alone  
 (B) By the pressure difference between the water and the atmosphere  
 (C) By the equilibrium between surface tension of water and the weight of water raised  
 (D) By the density of the water
249. What term is used for a saturated geologic formation that cannot transmit significant quantities of water under ordinary hydraulic gradients?  
 (A) Aquitard (B) Aquifer  
 (C) Aquiclude (D) Aquifuge
250. Given a porosity of 0.22 and a dry bulk density of  $1.95\text{g/cm}^3$ , what is the particle density?  
 (A)  $0.5\text{ g/cm}^3$  (B)  $1.5\text{ g/cm}^3$   
 (C)  $2.0\text{ g/cm}^3$  (D)  $2.5\text{ g/cm}^3$
251. In soil or rock, how is porosity defined?  
 (A) Ratio of water volume to total volume of soil or rock  
 (B) Ratio of void volume to total volume of soil or rock  
 (C) Ratio of solid volume to total volume of soil or rock  
 (D) Ratio of air volume to total volume of soil or rock
252. Which of the following subsystems is NOT major division of the global hydrologic cycle?  
 (A) Atmospheric water system (B) Surface water system  
 (C) Subsurface water system (D) Regional water system
253. In Darcy's law, what factor is inversely proportional to the flow rate through porous media?  
 (A) Porosity (B) Viscosity  
 (C) Permeability (D) Length of the flow path
254. What does hydraulic conductivity measure in the context of fluid flow through porous media?  
 (A) Viscosity (B) Porosity  
 (C) Permeability (D) Flow rate
255. What criterion is commonly used to distinguish between laminar and turbulent flow in large sections, such as pipes?  
 (A) Hydraulic gradient (B) Reynolds number  
 (C) Hydraulic conductivity (D) Darcy velocity
256. The hydraulic conductivity of a soil or rock is primarily influenced by which of the following?  
 (A) Chemical composition (B) Electrical conductivity  
 (C) Particle size (D) Surface area

257. How is hydraulic conductivity determined in laboratory settings?  
 (A) Permeability coefficient (B) Permeability index  
 (C) Permeameter (D) Porosity meter
258. What can be determined from pumping tests of wells?  
 (A) Density (B) Storage coefficients  
 (C) Porosity (D) Viscosity
259. Which of the following is NOT typically considered when selecting a method for constructing wells?  
 (A) Purpose of the well (B) Quantity of water required  
 (C) Annual precipitation levels (D) Economic factors
260. What equipment is commonly used to construct bored wells?  
 (A) Hydraulic jacks (B) Rock crushers  
 (C) Earth augers (D) Excavators
261. Well-point systems are particularly advantageous for which purpose?  
 (A) Shallow groundwater exploration (B) Groundwater test  
 (C) Dewatering excavations for foundations (D) Deep groundwater exploration
262. What method is used to drill wells with a standard well-drilling rig, percussion tools, and a bailer?  
 (A) Cable tool method (B) Rotary drilling method  
 (C) Sonic drilling method (D) Hydraulic fracturing method
263. Which portion of the electromagnetic spectrum enables the recording of differences in apparent surface temperatures to obtain information on soil moisture, groundwater circulation, and faults?  
 (A) Ultraviolet imagery (B) Infrared imagery  
 (C) Microwave imagery (D) X-ray imagery
264. In geophysical surveys, what unit is commonly used to represent the resistivity of subsurface materials?  
 (A) Ohm ( $\Omega$ ) (B) Siemens (S)  
 (C) Ohm-meter ( $\Omega\text{m}$ ) (D) Farad (F)
265. Which of the following statements is true regarding the depth penetration of seismic refraction methods?  
 (A) They penetrate deeper than seismic reflection methods.  
 (B) They are limited to shallow depths.  
 (C) They are only applicable to surface geology.  
 (D) They are primarily used for oil exploration only.
266. Test drilling helps to obtain assurance of underground conditions prior to what activity?  
 (A) Groundwater extraction (B) Groundwater exploration  
 (C) Well drilling (D) Groundwater prospecting
267. What type of wells can natural gamma, gamma-gamma, and neutron logs be recorded in?  
 (A) Only cased wells (B) Only open-hole wells  
 (C) Both cased and open-hole wells (D) Wells with specific geological formations

268. In which situations can recharge wells be used?  
 (A) When there are permeable surface soils (B) When vadose zones are highly permeable  
 (C) When aquifers are shallow depth (D) When there are impermeable surface soils
269. What is conjunctive use in water resources management?  
 (A) Utilizing only surface water for irrigation  
 (B) Extracting groundwater without considering surface water availability  
 (C) Coordinated operation of both surface water and groundwater resources  
 (D) Conservation of water through storage in reservoirs
270. What do clays, metallic oxides, and organic matter has in common regarding sorption?  
 (A) They increase groundwater flow rates (B) They facilitate contaminant transport  
 (C) They serve as sorptive materials (D) They introduce pollutants into the groundwater
271. What potential source of groundwater pollution is associated with the land disposal of solid wastes?  
 (A) Leachate from landfills (B) Agricultural runoff  
 (C) Industrial emissions (D) Atmospheric deposition
272. What is the primary cause of hardness in groundwater?  
 (A) Presence of organic matter (B) Presence of Soap  
 (C) Presence of divalent metallic cations (D) Elevated pH levels
273. What term describes the region of significant damage during an earthquake?  
 (A) Epicenter (B) Hypocenter  
 (C) Meizoseismal region (D) Seismic zone
274. When did the Koyna earthquake occur?  
 (A) 1950 (B) 1967  
 (C) 1985 (D) 1993
275. Where did the earthquake of September 30, 1993, occur?  
 (A) Koyna  
 (B) Jabalpur  
 (C) Near the village of Killari in Latur district  
 (D) Assam
276. What was the magnitude of the earthquake that struck near the village of Killari?  
 (A) 4.4 (B) 5.2  
 (C) 6.4 (D) 8.6
277. Which of the following is NOT a widely used GIS package?  
 (A) ArcGIS (B) IDRISI  
 (C) SPANS (D) Adobe Photoshop
278. What are the two fundamental components of geographical or spatial information?  
 (A) Topography and geology (B) Location and attribute character  
 (C) Latitude and longitude (D) Surface area and volume
279. What are the two basic types of data structures in GIS?  
 (A) Numeric and alphanumeric (B) Scalar and vector  
 (C) Vector and raster (D) Image and text

280. Which stage of the GIS process involves filling up vacant grid cells?  
 (A) Filling up  (B)  Interpolation  
 (C) Data input  (D) Data collection
281. Which hardware component is used for inputting spatial data?  
 (A) Printer  (B) Plotter   
 (C)  Scanner  (D) CPU
282. What is not another name for open tube piezometers?  
 (A) Open Chamber Piezometer  (B) Porous Chamber Piezometer   
 (C)  Hygro - Piezometer  (D) Casagrande-type piezometers
283. How do open tube piezometers isolate the strata to be measured?  
 (A) By measuring air pressure changes  (B)  By using subsurface seals  
 (C) By monitoring soil moisture content  (D) By assessing soil temperature
284. What is the purpose of using two tubes in twin-tube hydraulic piezometers?  
 (A) To increase the pressure measurement accuracy   
 (B)  To circulate water through the system and remove trapped air  
 (C) To decrease the cost of installation   
 (D) To provide redundancy in case one tube fails
285. How pneumatic piezometers are typically constructed?  
 (A) With a single tube connected to a pressure gage   
 (B)  With a porous filter and two tubes connected by a flexible diaphragm  
 (C) With a pneumatic pressure transducer and electrical wiring   
 (D) With a water-filled reservoir and pressure-sensitive membrane
286. How does the diaphragm of the vibrating wire Piezometer respond to applied pressure?  
 (A) It expands  (B) It contracts   
 (C)  It deflects  (D) It remains unchanged
287. What statistical method is the Mann-Kendall test primarily used for?  
 (A) Parametric analysis  (B)  Non-parametric analysis  
 (C) Descriptive analysis  (D) Predictive analysis
288. What type of data is the Mann-Kendall test commonly used to analyze?  
 (A) Categorical data  (B) Cross-sectional data   
 (C)  Time series data  (D) Spatial data
289. What does the “MA” stand for in the ARIMA model?  
 (A) Mathematical Average  (B) Mean Absolute   
 (C)  Moving Average  (D) Margin of Accuracy
290. How does Digital Water Level Recorders (DWLR) capture water level data?  
 (A) Manually  (B) Quarterly   
 (C) Monthly  (D)  At the desired frequency
291. What is one of the objectives of groundwater level monitoring?  
 (A) To detect variations in soil pH levels   
 (B) Monitoring soil moisture content   
 (C)  Detecting impact of groundwater recharge and abstractions  
 (D) Observing atmospheric pressure changes

292. What is the purpose of determining the (mean) highest and lowest water table positions?  
(A) To assess pressure changes  
 (B) To compute groundwater resource availability  
(C) To monitor changes in soil composition  
(D) To observe variations in groundwater temperature
293. What is the purpose of sampling groundwater quality?  
(A) To determine soil composition  
(B) To assess groundwater resource availability  
 (C) To evaluate its suitability for various purposes  
(D) To monitor changes in atmospheric humidity
294. What is the purpose of preparing a water table-contour map?  
(A) To analyze water use  
(B) To assess soil moisture content  
(C) To determine depth-to-water table  
 (D) To visualize groundwater flow patterns
295. Which software package is specifically designed for the design and analysis of aquifer tests, including pumping tests, step-drawdown tests, and slug tests?  
 (A) AQTESOLV  
(B) AquaChem  
(C) Strater  
(D) WinLoG
296. Which of the following is a software tool commonly used for groundwater data analysis?  
(A) Microsoft Excel  
(B) Adobe Photoshop  
(C) MATLAB  
 (D) MODFLOW
297. Which software tool is specifically designed for spatiotemporal analysis of groundwater data?  
 (A) GWSDAT  
(B) AutoCAD  
(C) SPSS  
(D) Adobe Illustrator
298. How do grains move during saltation?  
(A) They move than the flow of fluid  
(B) They roll continuously along the bed  
 (C) They tend to move in intermittent contact with the bed  
(D) They move uniformly with the flow
299. What defines a turbidity current?  
 (A) Flowing downslope along the bottom of an ocean or lake  
(B) Moving horizontally along the ocean floor  
(C) Flowing upslope along the ocean surface  
(D) Circulating vertically within the water column
300. What is the primary characteristic of hummocky cross-stratification?  
(A) Concave-down cross-laminae  
(B) Horizontal cross-laminae  
 (C) Concave-up and convex-up cross-laminae  
(D) Vertical cross-laminae