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# GPSC

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# ESP-1

## PROVISIONAL ANSWER KEY

**NAME OF THE POST****GUJARAT ENGINEERING SERVICE (CIVIL) CLASS I &II**

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<b>Last Date to send suggestion(s)</b>	<b>3-1-2018</b>

**Note:-**

- (1) All Suggestions are to be sent with reference to website published Question paper with Provisional Answer Key Only.
- (2) All Suggestions are to be sent in the given format only.
- (3) Candidate must ensure the above compliance.

- (1) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ પર પ્રસિદ્ધ થયેલ નિયત નમૂનાનો ઉપયોગ કરવો.
- (2) ઉમેદવારોએ પોતાને પરીક્ષામાં મળેલ સીરીઝની પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્ન કમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઇટ પર પ્રસિદ્ધ થયેલ પ્રોવિઝનલ આન્સર કીના પ્રશ્ન કમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (3) ઉમેદવારોએ ઉક્ત સૂચનાનું અચૂક પાલન કરવું અન્યથા વાંધા-સૂચનો અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં.





001. કૃતિનું કાન્દા કી યું કાન્દા કેણ્ઠ કાન્દાનું કાન્દા  
 (A) કૃતિનું (B) કાન્દાનું  
 (C) કાન્દાનું (D) કાન્દા

002. કૃતિનું કાન્દાનું કાન્દા કાન્દા કાન્દાનું કાન્દા  
 (A) કાન્દાનું (B) કાન્દા  
 (C) કાન્દા (D) કાન્દાનું કાન્દાનું

003. કૃતિનું કાન્દાનું કાન્દા કાન્દા કાન્દાનું કાન્દાનું કાન્દા  
 (A) કાન્દાનું કાન્દા (B) કાન્દાનું કાન્દા  
 (C) કાન્દા કાન્દા (D) કાન્દાનું કાન્દા

004. 'કાન્દા' કું કાન્દા  
 (A) કાન્દાનું કું (B) કાન્દાનું  
 (C) કાન્દાનું કાન્દાનું (D) કાન્દાનું

005. કૃતિનું કાન્દાનું કાન્દા કી કી કાન્દા કાન્દાનું કાન્દા કાન્દા  
 (A) કાન્દાનું (B) કાન્દાનું કાન્દાનું  
 (C) કાન્દાનું કાન્દા (D) કાન્દાનું

006. કાન્દા કી યું કાન્દાનું કાન્દાનું કાન્દા  
 (A) કાન્દાનું (B) કાન્દાનું  
 (C) કાન્દા (D) કાન્દા

007. કાન્દાનું કાન્દા  
 કાન્દા-I  
 1. કાન્દાનું  
 2. કાન્દાનું  
 3. કાન્દાનું  
 4. કાન્દાનું  
 (A) 1-a, 2-d, 3-b, 4-c  
 (B) 1-a, 2-c, 3-b, 4-d  
 (C) 1-a, 2-b, 3-c, 4-d  
 (D) 1-a, 2-b, 3-d, 4-c

કાન્દા-II  
 a. કાન્દાનું કાન્દા  
 b. કાન્દાનું  
 c. કાન્દાનું  
 d. કાન્દાનું  
 (A) 1-a, 2-c, 3-b, 4-d  
 (B) 1-a, 2-b, 3-d, 4-c

008. કાન્દાનું કાન્દા કી યું કાન્દા "કાન્દા કાન્દા" કાન્દા કાન્દાનું કાન્દા  
 (A) કાન્દાનું, કાન્દાનું (B) કાન્દાનું, કાન્દાનું  
 (C) કાન્દાનું કાન્દાનું કાન્દા, કાન્દા (D) કાન્દાનું કાન્દા, કાન્દાનું

009. કાન્દા કી યું કાન્દાનું કાન્દા કાન્દા  
 (A) કાન્દા (B) કાન્દાનું  
 (C) કાન્દા (D) કાન્દાનું



**001.** Which of the following is the ancient Buddhist University of Gujarat?  
(A) Vikramasila (B) Nalanda  
(C) Vallabhi (D) Morbi

**002.** CALICO Museum is famous for?  
(A) Textile (B) Glass  
(C) Paintings (D) Tribal Objects

**003.** Which is the tribal festival clubbed with tourism in Gujarat?  
(A) Dangs Festival (B) Modhera Festival  
(C) Kutch Utsav (D) Kite Festival

**004.** What is 'Pithora'?  
(A) Tribal Dance (B) Folk Music  
(C) Tribal Painting (D) Folk Dance

**005.** *Gurbani* hymns are parts of which of the following holy book?  
(A) Avesta (B) Shrimad Bhagvadgita  
(C) Guru Granth Sahib (D) Bible

**006.** Which of the following is a pilgrim's place of Parsis?  
(A) Pandarvada (B) Delmal  
(C) Udvada (D) Mumbai

**007.** Match the following:  

List I	List II
1. Porbandar	a. Harsiddhi Mata
2. Siddhapur	b. Saraswati
3. Mahudi	c. Ghantakarna
4. Pavagadh	d. Bhadrakali

  
(A) 1-a, 2-d, 3-b, 4-c (B) 1-a, 2-c, 3-b, 4-d  
(C) 1-a, 2-b, 3-c, 4-d (D) 1-a, 2-b, 3-d, 4-c

**008.** Which among the following temples of India is known as Black pagoda?  
(A) Sun Temple, Konark (B) Brihadeeswara Temple, Tanjore  
(C) Lord Jagannath Temple, Puri (D) Meenakshi Temple, Madurai

**009.** Which of the following is a dance form of Gujarat?  
(A) Phag (B) Gomph  
(C) Jatra (D) Tippani



010. એન્ટોન્યુન્નાની કોઈ કાર્ય કરતું હશે કે કોઈ કાર્ય કરતું હશે  
(A) કુણું (B) કુણું  
(C) કણું (D) કણું

011. એન્ટોન્યુન્નાની કાર્ય કરતું હશે કે કાર્ય કરતું હશે  
(A) કરું કણાનું (B) કરું  
(C) કુરું કણું (D) કરું

012. એન્ટોન્યુન્નાની કાર્ય કરતું હશે કે કાર્ય કરતું હશે કે કાર્ય કરતું હશે  
દ્વારા કરું કરું હશે.  
(A) કણું કરું કરું (B) કુરું કરું  
(C) કરું કરું (D) કણું

013. એન્ટોન્યુન્નાની કાર્ય કરતું હશે  
(A) કરું કરું (B) કરું કરું  
(C) કરું કરું (D) કરું કરું

014. એન્ટોન્યુન્નાની કાર્ય કરતું હશે 201 કરું કરું કરું કરું કરું  
(A) કરું કરું (B) કરું કરું  
(C) કરું કરું (D) કરું કરું

015. એન્ટોન્યુન્નાની શીર્ષક નાર્લ (NARL) કાર્ય કરતું હશે  
(A) કરું (B) કરું  
(C) કરું (D) કરું

016. એન્ટોન્યુન્નાની કાર્ય કરતું હશે કરું કરું કરું કરું કરું કરું  
(A) કરું (B) કરું  
(C) કરું (D) કરું

017. એન્ટોન્યુન્નાની કાર્ય કરતું હશે :  
(A) કરું કરું.  
(B) કરું કરું.  
(C) કરું કરું કરું કરું કરું કરું કરું કરું કરું કરું.  
(D) કરું કરું

018. એન્ટોન્યુન્નાની કાર્ય કરતું હશે કરું કરું કરું કરું કરું કરું  
એન્ટોન્યુન્નાની કાર્ય કરતું હશે, U-235, Pu-239 કરું U-233 કરું કરું કરું કરું  
(A) કરું (B) કરું  
(C) કરું (D) કરું

010. At which place was Gandhiji arrested for the first time by the British Government for sedition?  
(A) Bombay (B) Pune  
(C) Calcutta (D) Ahmedabad

011. Which of the following festivals is not celebrated almost simultaneously in the month of January every year?  
(A) Makar Sankrati (B) Pongal  
(C) Gudi Padwa (D) Lohri

012. Temple Vimal Vasahi and Luna Vasahi at Mount Abu were designed by \_\_\_\_\_  
(A) Vastupal and Tejpal (B) Kumarpal  
(C) Mahavir (D) Udaymati

013. Maha Gurjara is a style of \_\_\_\_\_  
(A) Temple architecture (B) Express rail transportation  
(C) A political movement (D) None

014. Which of the following Gujarati poet received Jnanapith award in 2016?  
(A) Chandravadan Mehta (B) Raghuveer Chaudhari  
(C) Bharat Patel (D) Mahesh Champaklal

015. Where is National Atmospheric Research Laboratory (NARL) Located?  
(A) Tirupati (B) Bengaluru  
(C) Thiruvananthapuram (D) New Delhi

016. Which of the following countries has never been a signatory to the nuclear non proliferation treaty?  
(A) India (B) Pakistan  
(C) Israel (D) All of the above

017. Under Indo-US civil nuclear Agreement:  
(A) India's right to conduct nuclear test in future does not get affected.  
(B) India's indigenous three stage nuclear programme does not get affected.  
(C) India does not have to give up its nuclear weapons programme.  
(D) All of the above.

018. Which Indian reactor is the only reactor in the world where all the three fissile isotopes viz., U-235, Pu-239 & U-233 are used as fuel?  
(A) Kamini (B) Kakrapar  
(C) Kudankulam (D) Kalpakkam





019. Which government company under the DAE is entrusted the construction and commissioning of Fast Breeder Reactors (FBR) in India?  
(A) Nuclear Power Corporation of India Ltd (NPCIL)  
(B) Atomic Energy Regulatory Board (AERB)  
(C) Bhabha Atomic Energy Research Centre (BARC)  
(D) Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI)

020. Which of the following net-banking services are available all the time?  
(A) NEFT (National Electronic Funds Transfer)  
(B) IMPS (Immediate Payment Service)  
(C) RTGS (Real Time Gross Settlement)  
(D) All of the above

021. Which one of the following Unmanned Aerial Vehicles (UAVs) developed by DRDO is not a target drone:  
(A) Abhyas (B) Ulka  
(C) Lakshya (D) Nishant

022. Which instrument is not a part of on-board payloads of Mars Orbiters Mission (MOM) of India:  
(A) Lyman Alpha Photometer  
(B) Mars Color Camera  
(C) Hyper Spectral Images  
(D) Thermal Infrared Imaging Spectrometer

023. Itai-itai disease is caused by the poisoning of which one of the following?  
(A) Mercury (B) Nitrate  
(C) Cadmium (D) Arsenic

024. Maximum number of natural disasters, are generally reported from which of the following continents?  
(A) Asia (B) Africa  
(C) Europe (D) North America

025. The Keoladeo National Park at Bharatpur is famous for the conservation of:  
(A) Tiger (B) Black Buck  
(C) Gharial (D) Birds



026. କିମ୍ବା କିମ୍ବା କିମ୍ବା-କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା  
 (A) କିମ୍ବା (B) କିମ୍ବା  
 (C) କିମ୍ବାକିମ୍ବା (D) କିମ୍ବାକିମ୍ବା

027. କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା କିମ୍ବା  
 (A) କିମ୍ବାକିମ୍ବା (B) କିମ୍ବାକିମ୍ବା  
 (C) କିମ୍ବାକିମ୍ବା (D) କିମ୍ବାକିମ୍ବା

028. କିମ୍ବାକିମ୍ବା କିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବା \_\_\_\_\_ କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (A) କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (B) କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (C) କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (D) କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା

029. କିମ୍ବାକିମ୍ବା 201କୁ 17 (କିମ୍ବାକିମ୍ବା 201କୁ 17) କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (A) କିମ୍ବାକିମ୍ବା (The Perspective), କିମ୍ବାକିମ୍ବା (The Proximate),  
 କିମ୍ବାକିମ୍ବା (The Persistent)  
 (B) କିମ୍ବାକିମ୍ବା (The Perspective), କିମ୍ବାକିମ୍ବା (The Proximate),  
 କିମ୍ବାକିମ୍ବା (The Prospective)  
 (C) କିମ୍ବାକିମ୍ବା (The Proximate), କିମ୍ବାକିମ୍ବା (The Perspective),  
 କିମ୍ବାକିମ୍ବା (The Persistent)  
 (D) କିମ୍ବାକିମ୍ବା (The Persistent), କିମ୍ବାକିମ୍ବା (The Perspective),  
 କିମ୍ବାକିମ୍ବା (The Proximate)

030. କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା 2017 କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା 155 କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା  
 (A) 122 (B) 112  
 (C) 112 (D) 124

031. କିମ୍ବାକିମ୍ବା.  
 କିମ୍ବା-I  
 a. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 b. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 c. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 d. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 (A) a-1, b-3, c-2, d-4  
 (B) a-4, b-2, c-3, d-1  
 (C) a-2, b-3, c-4, d-1

କିମ୍ବା-II  
 1. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 2. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 3. କିମ୍ବାକିମ୍ବା କିମ୍ବା  
 4. କିମ୍ବାକିମ୍ବା କିମ୍ବା କିମ୍ବାକିମ୍ବା କିମ୍ବାକିମ୍ବା

(D) a-2, b-4, c-3, d-1



026. Which country has not demonstrated anti-satellite weapons?  
(A) China (B) India  
(C) USA (D) Russia

027. Which one of the following pair is incorrectly matched?

National Park	State
(A) Kaziranga	— Assam
(B) Mollem	— Goa
(C) Kanha	— Madhya Pradesh
(D) Bandhipur	— Rajasthan

028. Pine trees are generally found in \_\_\_\_\_ type of forests.  
(A) Himalayan broad leaved forest (B) Himalayan coniferous forest  
(C) Deciduous Moist forest (D) Deciduous dry forest

029. Economic Survey 2016-17 has three section. Which one is the correct sequence?  
(A) The Perspective, The Proximate, The Persistent  
(B) The Perspective, The Proximate, The Prospective  
(C) The Proximate, The Perspective, The Persistent  
(D) The Persistent, The Perspective, The Proximate

030. What is the rank of India amongst 155 countries as per World Happiness Report 2017?  
(A) 122 (B) 119  
(C) 118 (D) 124

031. Match the following:

List I	List II
a. Corporate Tax	1. Sale of Property
b. Excise Duty	2. Income of a Company
c. Custom Duty	3. Exports & Imports
d. Capital Gain Tax	4. Good produced within a country

  
(A) a-1, b-3, c-2, d-4 (B) a-4, b-2, c-3, d-1  
(C) a-2, b-3, c-4, d-1 (D) a-2, b-4, c-3, d-1





032. Which of the following is not a port of Gujarat?  
(A) Salaya (B) Jafrabad  
(C) Pipavav (D) Dhamra

033. What is secondary agriculture?  
(A) Development of rural sector  
(B) Development of infrastructure  
(C) Practices & processes in rural industries  
(D) Practices and processes that add value to primary agriculture commodities

034. What is unique in the idiosyncratic pattern of development in India?  
(A) Shift of labour from agriculture to industrial sector directly  
(B) Shift of labour from industrial to service sector directly  
(C) Shift of labour from agriculture to service sector directly  
(D) Stagnation of labour in the service sector

035. The GST Suvidha provider (GSPs), a newly developed application, is used by: \_\_\_\_\_  
(A) State Government to understand GST  
(B) Central Government to understand GST  
(C) Taxpayers for interacting with GSTN  
(D) Political parties to comply with GST

036. What is the predominant type of Indian agriculture?  
(A) Commercial agriculture (B) Extensive agriculture  
(C) Plantation agriculture (D) Subsistence agriculture

037. Devaluation of currency will be more beneficial if  
(A) Prices of domestic goods remain constant  
(B) Prices of import remains constant  
(C) Prices of export remains constant  
(D) Prices of export rise proportionately

038. Which of the following are the basic characteristics of underdeveloped countries?  
i. Dependence on agriculture  
ii. Low human development index  
iii. Poor standard of living and mass poverty  
iv. Exploitation of natural resources and the development of industrial sector  
(A) i, ii & iii only (B) ii, iii & iv only  
(C) i, iii & iv only (D) i, ii & iv only



(A) କେନ୍ଦ୍ରୀୟ ପାଇଁ କାମ କରିବାକୁ ପାଇଁ (କେନ୍ଦ୍ରୀୟ ପାଇଁ କାମ କରିବାକୁ ପାଇଁ)  
(B) ପାଇଁ କାମ କରିବାକୁ ପାଇଁ (କେନ୍ଦ୍ରୀୟ ପାଇଁ କାମ କରିବାକୁ ପାଇଁ)  
(C) ପାଇଁ ରାଖିବାକୁ ପାଇଁ ପାଇଁ (କେନ୍ଦ୍ରୀୟ ପାଇଁ ରାଖିବାକୁ ପାଇଁ)  
(D) ରାଖିବାକୁ ପାଇଁ ପାଇଁ (କେନ୍ଦ୍ରୀୟ ପାଇଁ ରାଖିବାକୁ ପାଇଁ)

040.              

041.      

- 1.
- 2.
- 3.
- 4.

(A) 1  4  
(C) 3  4

(B) 2  3  
(D) 1  3

042.               
 

(A)  (B)   
(C)  (D) 

043. ପ୍ରକାଶ 2011 ମୁଦ୍ରଣକାରୀ ମନ୍ତ୍ରାଳୟ, ଭୁବନେଶ୍ୱର ମୁଦ୍ରଣକାରୀ

(A) 3□  
(C) 31□ (B) 3□  
(D) 30□

044. રાજ્યાંત્રી દિન ઘણાં-2011 (ઘણાં રાજ્યાંત્રી દિન 2011) કેન્દ્ર, કુરાયા કુંડાલી, રાજ્યાંત્રી દિન 2011

(A) 7.4□□ (B) 3.□4□  
(C) 10.14□ (D) 1□□□□







045. Dharwar system of rocks is famous for :  
(A) Manganese reserves (B) Iron ore reserves  
(C) Bauxite (D) Limestone

046. 'Karewa Deposits' are found in \_\_\_\_\_  
(A) Kashmir Valley (B) Assam Valley  
(C) Himalayan foothills (D) Delta region

047. The most prominent state in 'bauxite' reserves is :  
(A) Jharkhand (B) Andhra Pradesh  
(C) Gujarat (D) Orissa

048. Among the following which group of states are famous for pulses crop production?  
(A) Assam, West Bengal and Sikkim  
(B) Madhya Pradesh, Maharashtra and Rajasthan  
(C) Kerala, Karnataka and Andhra Pradesh  
(D) Haryana, Jharkhand, Himachal Pradesh

049. The average rainfall in Narmada Basin is almost \_\_\_\_\_.  
(A) 1178 Millimeter (B) 904 Millimeter  
(C) 1415 Millimeter (D) 1300 Millimeter

050. Which one of the following theories regarding the origin of the universe are correctly matched :  
1. Big Bang Theory ; By E George Lamaitre  
2. Steady State Theory : By Thomas Gold and Herman Bondy  
3. Pulsating Universe Theory : By Allen Sundes  
(A) Only 1 is correct (B) Only 2 is correct  
(C) Only 1 and 3 are correct (D) All are correct

051. Which one of the following rocks is not correctly matched?  
(A) Igneous Rocks-Basalt (B) Sedimentary Rocks-Shale  
(C) Metamorphic Rocks-Regur (D) All the above

052. The hot and dry wind blowing in the northern India from the north-west and west-east are called :  
(A) Garam (B) Samoon  
(C) Loo (D) Boo

053. କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ  
 (A) 4 (B) 5  
 (C) 2 (D) 1

054. କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା, ପରିମା, ପରିମା, ପରିମା  
 (B) ପରିମା, ପରିମା, ପରିମା, ପରିମା  
 (C) ପରିମା, ପରିମା, ପରିମା, ପରିମା  
 (D) ପରିମା, ପରିମା, ପରିମା, ପରିମା

055. ପରିମା ଶେଷିଲ୍ କାନ୍ଦି (ଶେଷିଲ୍ ପରିମା) କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା ପରିମା ପରିମା ପରିମା (B) ପରିମା ପରିମା ପରିମା  
 (C) ପରିମା ପରିମା କାନ୍ଦି (D) କାନ୍ଦି ପରିମା ପରିମା ପରିମା

056. କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍  
 (A) ପରିମା (B) ପରିମା  
 (C) ପରିମା (D) ପରିମା

057. ପରିମାନ୍ତରୀ-2011 ପରିମାନ୍ତରୀ ପରିମାନ୍ତରୀ ପରିମାନ୍ତରୀ ପରିମାନ୍ତରୀ  
 କେବେଳା ମେଲ୍, \_\_\_\_\_ କେବେଳା ମେଲ୍  
 (A) 2-5 (B) 5-10  
 (C) 10-12 (D) 12-15

058. କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା (B) ପରିମା  
 (C) ପରିମା (D) ପରିମା

059. \_\_\_\_\_ କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା (B) ପରିମା  
 (C) ପରିମା (D) ପରିମା

060. ପରିମାନ୍ତରୀ-III କେବେଳା ମେଲ୍ ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା ପରିମା ପରିମା (B) ପରିମା ପରିମା ପରିମା  
 (C) ପରିମା ପରିମା (D) ପରିମା ପରିମା

061. କେବେଳା ମେଲ୍, ପରିମା ପ୍ରକାଶନ  
 (A) ପରିମା ପରିମା (B) ପରିମା  
 (C) ପରିମା (D) ପରିମା



053. In the terms of Area, in India Gujarat is ranked at no. \_\_\_\_\_  
(A) 4 (B) 5  
(C) 2 (D) 6

054. Which of the following is the correct sequence of mountains from east to west  
(A) Khasi, Garo, Jaintia, Nagahills  
(B) Nagahills, Jaintia, Khasi, Garo  
(C) Jaintia, Garo, Khasi, Nagahills  
(D) Nagahills, Khasi, Garo, Jaintia

055. Rainbow revolution in India is related with :  
(A) Development with film industry  
(B) Space research development  
(C) Child health programme  
(D) Development of various sectors of Agriculture

056. Which one of the following countries has the highest density of population?  
(A) Bangladesh (B) Pakistan  
(C) Srilanka (D) India

057. According to 2011 Census the percentage of aged population (60+) to total population in India lies between  
(A) 2-5 (B) 5-10  
(C) 10-12 (D) 12-15

058. Who among the following is not considered as a Tirthankar in the Jain tradition?  
(A) Rishabhnnath (B) Adinatha  
(C) Priyadarshana (D) Parsvanatha

059. Ilbert Bill was introduced in the Central Assembly during the time of \_\_\_\_\_.  
(A) Lord Northbrook (B) Lord Lytton  
(C) Lord Ripon (D) Lord Dufferin

060. Sayyajirao Gaekwad III gave financial help to \_\_\_\_\_ to complete Higher education  
(A) Dr. B.R. Ambedkar (B) Vithal Ramaji Shinde  
(C) Shivaram J. Kamble (D) Kisan Fauji Bansod

061. Who is stated to have given a definite form, content and style to Urdu?  
(A) Wali Dakkhani (B) Naziri  
(C) Utbi (D) Abdus Samad



062. એવી કૃતિ કેવી રીતે પ્રાપ્ત કરી શકું હોય કે? (A) કાન્દું 10 કર્મ કરીને 5 માટે કરી. (B) કાન્દું પ્રાપ્ત કરીને કૃતિ કરી શકું હોય. (C) કાન્દું એવી કૃતિ કરી શકું હોય કેન્દ્રીય કર્મ. (D) કાન્દું એવી કૃતિ કરી શકું હોય કરી.

063. એવી કૃતિ કૃતું રોધની કરી શકું હોય રાખી, એવી કરાયા કૃતિ કરી શકું હોય (A) રાખીની (B) કરીની (C) કરીની (D) કરી કરીની

064. એવી કૃતિ કરીની \_\_\_\_\_ કરી શકું હોય. (A) કરીની (B) રાખીની (C) કરીનીની (D) કરીનીની

065. કૃતિ કરીની કરી શકું હોય એવી કૃતિ કરી શકું હોય કરી શકું હોય (A) કરીની કરીની (B) કરીની (C) કરીનીની (D) કરીનીની

066. એવી કરાયા કરીની એવી કરીની દાંડી કરીની એવી કરીની એવી કરીની એવી કરીની એવી કરીની એવી કરીની (A) એવી એવી (B) એવી એવી એવી એવી (C) એવી એવી એવી એવી (D) એવી એવી એવી એવી

067. એવી કરીની (A) એવી (B) એવી (C) એવી (D) એવી

068. એવી કરીની એવી કરીની એવી કરીની (એવી) એવી એવી એવી એવી એવી એવી (A) એવી એવી (B) એવી એવી એવી એવી (C) એવી એવી (D) એવી એવી

069. એવી કરીની (A) એવી એવી (B) એવી એવી એવી (C) એવી એવી (D) એવી એવી



062. Which of the following statement is not correct about the Deoband School?

(A) It reduced its original programme of study from 10 years to 5 years  
(B) It prepared its students to assume the role of Ulemas  
(C) It focused on the Islamic texts  
(D) It did not introduce English or Western learning.

063. Which in the following is a romantic play written by Harsha, the Pushyabhuti ruler?

(A) Ratnavalli (B) Nagananda  
(C) Lilavati (D) Kritya Kalpataru

064. The venue of the Second Buddhist Council was held at \_\_\_\_\_

(A) Vaisali (B) Rajagriha  
(C) Patliputra (D) Kashmir

065. The last powerful sultan of Gujarat Sultanate, Bahadur Shah, was killed by \_\_\_\_\_ .

(A) Sher Shah Suri (B) Humayun  
(C) Bairam Khan (D) Portuguese

066. Who was the Viceroy of India during the time of Dandi Satyagrah launched by Gandhi?

(A) Lord Irwin (B) Earl of Willington  
(C) Marquess of Linlithgow (D) Earl of Reading

067. Which metal was chosen by the Gupta Emperor Chandragupta II for his coinage in Western India?

(A) Tin (B) Bronze  
(C) Silver (D) Lead

068. Who was Akbar's Governor of Gujarat?

(A) Itimad Khan (B) Mirza Aziz Koka  
(C) Bairam Khan (D) Muhammad Husain Mirza

069. Which British Viceroy established the Rajkot College in Gujarat?

(A) Lord Canning (B) Lord John Lawrence  
(C) Lord Mayo (D) Lord Ripon



070.    

(A)  (B)   
(C) 1  2  (D) 1  2 

071.                

1. કરણ કાંઠાણ
2. કાંઠ કાંઠાણ
3. કારણ કાંઠાણ
4. કાંઠ-કાંઠાણો કાંઠાણ

072. କରିବା କରିବା କିମ୍ବା କରାଯି “କରିବାକରିବାକରିବା” କିମ୍ବା କରିବା

(A) 42  કુરો  
(C) 52  કુરો

(B) 44  કુરો  
(D) 73  કુરો

(A)      
(B)        
(C)        
(D)    

074. 

(A)   (B)   
(C)   (D) 

075. ਏਕੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ (ਏਕੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ ਕੁਝੀ) (SAFTA)

1. દેખાય કૂદા કાદાદ કાદાદ  
2. દ્વારાય કુદાર કરારોય  
3. તુલનાય કાદાય

କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ କୁଣ୍ଡଳ

(A)  1  2  
(B)  1  3  
(C)  2  3  
(D) 1, 2  3



**070.** Read the following statements:

1. The Kushanas issued a large number of gold coins
2. They also issued copper coins

(A) Both statements are true      (B) Both statements are wrong  
(C) 1 is true, but 2 is false      (D) 1 is false, but 2 is true

**071.** Arrange the following satyagrahas in a chronological order :

1. Borsad Satyagrah
2. Kheda Satyagrah
3. Champaran Satyagrah
4. Mill-worker's Satyagrah

(A) 2, 1, 4, 3      (B) 2, 1, 3, 4  
(C) 3, 2, 1, 4      (D) 3, 4, 2, 1

**072.** Which Amendment of the Constitution of India can be called as 'Restorative Amendment'?

(A) 42<sup>nd</sup> Amendment      (B) 44<sup>th</sup> Amendment  
(C) 52<sup>nd</sup> Amendment      (D) 73<sup>rd</sup> Amendment

**073.** When can the speaker of the Lok Sabha exercise his right to vote in the house?

(A) On his own desire  
(B) When the Lok Sabha wants him to vote  
(C) When the President wants him to vote  
(D) In the event of equality of votes

**074.** According to China, Arunachal Pradesh is a part of which region

(A) Aksai Chin region      (B) China  
(C) South Tibet      (D) Bhutan

**075.** The South Asian Free Trade Agreement (SAFTA) has not been a success because of

1. Narrow export base of countries
2. Lack of bilateral free trade agreements
3. Lack of Political will

Select the correct answer using the codes given below

(A) 1 and 2 only      (B) 1 and 3 only  
(C) 2 and 3 only      (D) 1, 2 and 3





076. India wants to join a proposed Free Trade Agreement with ASEAN and 5 other countries. The name of this proposed economic deal is :  
(A) Asian Economic Cooperation Partnership  
(B) Asian Comprehensive Economic Agreement  
(C) Regional Comprehensive Economic Partnership  
(D) Regional Economic Cooperation Agreement

077. In which of the following state it is constitutionally obligatory for the Governor to appoint a minister of tribal affairs?  
(A) Bihar (B) Karnataka  
(C) Madhya Pradesh (D) Andhra Pradesh

078. Which of the following day is celebrated as 'Civil Service Day' by Government of India?  
(A) 12<sup>th</sup> January (B) 15<sup>th</sup> March  
(C) 21<sup>st</sup> April (D) 24<sup>th</sup> April

079. R.A.W. (Research and Analysis Wing) is a part of which of the following?  
(A) Ministry of Home Affairs (B) Cabinet Secretariat  
(C) P.M.O. (D) Ministry of Foreign Affairs

080. External Publicity and Public Diplomacy (XPD) Division is part of which Ministry of India  
(A) Ministry of External Affairs  
(B) Ministry of Home Affairs  
(C) Ministry of Defence  
(D) Ministry of Human Resources and Development

081. Who defined Public Policy as "Whatever governments choose to do or not to do"?  
(A) B Guy Peters (B) EF Malone  
(C) Thomas R Dye (D) Clarke E Cochran

082. Which one of the following is not there in the Eleventh Schedule of the Constitution?  
(A) Rural housing  
(B) Drinking water  
(C) Maintenance of community assets  
(D) Securing communal harmony



083. କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ ମାନ୍ଦିର  
\_\_\_\_\_   
(A) 30  (B) 33   
(C) 40  (D) 50

084. ମାନ୍ଦିର କୁରାମ୍ଭ 73  କୁରାମ୍ଭ ମାନ୍ଦିର 100  କୁରାମ୍ଭ ମାନ୍ଦିର  
(A)  (B)   
(C)  (D)

085. ଦେଖ ମାନ୍ଦିର ମାନ୍ଦିର କୁରାମ୍ଭ କୁରାମ୍ଭ କୁରାମ୍ଭ ମାନ୍ଦିର  
(A)  (B)   
(C)  (D)

086. ମାନ୍ଦିର କୁରାମ୍ଭ କୁରାମ୍ଭ କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ ମାନ୍ଦିର  
ମାନ୍ଦିର 2017     
(A)  (B)   
(C)  (D)

087. କୁରାମ୍ଭ ମାନ୍ଦିର ମାନ୍ଦିର \_\_\_\_\_ ମାନ୍ଦିର କୁରାମ୍ଭ କୁରାମ୍ଭ କୁରାମ୍ଭ  
(A)  (B)   
(C)  (D)

088. ମାନ୍ଦିର କୁରାମ୍ଭ କୁରାମ୍ଭ କୁରାମ୍ଭ 10,000  ମାନ୍ଦିର ମାନ୍ଦିର  
ମାନ୍ଦିର  
(A)  (B) ISUZU  
(C)  (Nissan) (D)

089. କୁରାମ୍ଭ ମାନ୍ଦିର କୁରାମ୍ଭ କୁରାମ୍ଭ କୁରାମ୍ଭ  
(A) ରାଜ୍ୟ ମାନ୍ଦିର - ରାଜ୍ୟ ମାନ୍ଦିର  
(B) କୁରାମ୍ଭ କୁରାମ୍ଭ - କୁରାମ୍ଭ କୁରାମ୍ଭ  
(C) ମାନ୍ଦିର କୁରାମ୍ଭ - ମାନ୍ଦିର କୁରାମ୍ଭ  
(D) ମାନ୍ଦିର ମାନ୍ଦିର - ମାନ୍ଦିର ମାନ୍ଦିର



083. The percentage of Reservation of women seats in panchayats and Urban local bodies in Gujarat is  
(A) 30% (B) 33%  
(C) 40% (D) 50%

084. To which of the following state, the 73<sup>rd</sup> Amendment Act, 1992 does not apply?  
(A) Assam (B) Manipur  
(C) Mizoram (D) Arunachal Pradesh

085. Who recommended the establishment of policy units within each Ministry?  
(A) 1<sup>st</sup> Administrative Reforms Commission  
(B) 2<sup>nd</sup> Administrative Reforms Commission  
(C) The Education Commission  
(D) The M.C. Chagla Commission

086. Which of the following statement is incorrect about Wetland Rules 2017, which are notified by the Union Environment Ministry.  
(A) The new rules replaced the Wetland rules of 2005  
(B) the new rules insist setting up of a State Wetland Authority in every state and union territory.  
(C) The new rules replaced the Wetland rules of 2010  
(D) None of the above

087. The Union defence minister inaugurated the Pratham-Shyok Bridge at \_\_\_\_\_  
(A) Doklham (B) Nathula Pass  
(C) Leh (D) Jojila Pass

088. Which of the following company got order of 10,000 electrical vehicles from government of India?  
(A) Mahindra and Mahindra (B) ISUZU  
(C) Nissan (D) Tata Motors

089. Which of the following pairs is incorrectly matched regarding Pro Kabaddi?  
(A) Ride Machine - Rahul Chaudhary  
(B) Dubki King - Sandeep Narwal  
(C) Bonus ka Badshah - Anoop Kumar  
(D) One man Army - Manjeeth Chillar



090. ਮੁਖ ਦੀ ਵਿਖ੍ਯਾਤ ਪ੍ਰਤਿਵਾਨ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 13 ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (D) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ

091. ਇੰਡੀਆ ਵਿਖ੍ਯਾਤ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ, ICAN (ਇੰਡੀਆ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਵਿਗਿਆਨੀ) ਵਿਖ੍ਯਾਤ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ICAN ਵਿਖ੍ਯਾਤ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2007  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(D) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ.

092. “ਭਾਵੀ ਵਿਗਿਆਨੀ” ਦੇ ਕੇਨਜ਼ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2017 ਵਿਖ੍ਯਾਤ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ - ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (D) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ

093. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
1. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
2. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
3. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
4. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2 (B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2 ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 3  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2, 3 ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 4 (D) 1, 2, 3 ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 4

094. “ਭਾਵੀ ਵਿਗਿਆਨੀ, ਭਾਵੀ ਵਿਗਿਆਨੀ, ਭਾਵੀ ਵਿਗਿਆਨੀ, ਭਾਵੀ ਵਿਗਿਆਨੀ”, ਇਹ ਵਿਖ੍ਯਾਤ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2017  
(B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2017  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2017  
(D) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ 2017

095. ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(A) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (B) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ  
(C) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ (D) ਮਨੁੱਖੀ ਵਿਗਿਆਨੀ





096. କିମ୍ବା କୀ କି କି

(A) କିମ୍ବା କି କି କି - କିମ୍ବା  
(B) କିମ୍ବା - କିମ୍ବା  
(C) କିମ୍ବା କି କି - କିମ୍ବା  
(D) କିମ୍ବା କି - କିମ୍ବା

097. କିମ୍ବା କିମ୍ବା

(A) କିମ୍ବା  
(B) କିମ୍ବା  
(C) କିମ୍ବା  
(D) କିମ୍ବା

098. କିମ୍ବା କିମ୍ବା

(A) କିମ୍ବା  
(B) କିମ୍ବା  
(C) କିମ୍ବା  
(D) କିମ୍ବା

099. କିମ୍ବା କିମ୍ବା

(A) କିମ୍ବା  
(B) କିମ୍ବା  
(C) କିମ୍ବା  
(D) କିମ୍ବା

100. କିମ୍ବା GIFT-IFSC କି କି କି

(A) 7  
(B) 8  
(C) 9  
(D) 10





096. Which of the following pairs is incorrectly matched

(A) Mera Houchongba - Manipur  
(B) Batukamma - Telangana  
**(C) Bonderam festival - Rajasthan**  
(D) Chitra Vichitra Fair - Gujarat

097. On which river the department of Bio-technology announced 'Lab on Boat' project for biological analysis?

(A) Ganga (B) Yamuna  
**(C) Brahmaputra** (D) Sarayu

098. Which country has signed 'Letter of Intent' with India to extend health co-operation?

**(A) Norway** (B) Sweden  
(C) Britain (D) USA

099. Which of the following country has joined with India and US to conduct a joint trade and investment show for the first time, in Delhi?

(A) Sri Lanka (B) Pakistan  
**(C) Afghanistan** (D) Bangladesh

100. India's first International Financial Services Centre GIFT-IFSC has got \_\_\_\_\_ place in the latest Global Financial Centers Index 22 (GFCI).

(A) 7<sup>th</sup> (B) 8<sup>th</sup>  
(C) 9<sup>th</sup> **(D) 10<sup>th</sup>**





101. Following figures show the population forecasting of some city.

Year	2011	2021	2031	2041
Population	100000	150000	225000	337500

The growth pattern of forecast values follows which of the following method.

(A) Arithmetical increase method      (B) Geometrical increase method  
(C) Incremental increase method      (D) Logistic curve method

102. Choose the appropriate word at (?) which bears the same relationship with the given forth word as the first two bears.

Scale : Length :: ?: Pressure

103. Choose the odd pair of the word

**104.** Read the following two statements

All framed structures are commercial buildings. Some framed structures have pile foundation.

Which of the following conclusions can be logically inferred from the above two statements?

- (A) All framed structures have pile foundation.
- (B) All buildings having pile foundation are commercial buildings.
- (C) All commercial buildings are framed structure.
- (D) Some commercial buildings have pile foundation.

105. If 30 men can build a wall 40 meters long in 5 days, what length of a similar wall can be built by 25 men in 3 days?

(A) 20 (B) 80  
(C) 11.25 (D) 29

106. If 36 workers can complete a work in 18 days, how many days are required to complete the same work by 27 workers?

(A) 12.5 (B) 22  
(C) 26 (D) 24





113.  $f(x, y) = x^2 + y^3$ ;  $x = t^2 + t^3$ ;  $y = 1 + t^3$

Find  $\frac{df}{dt}$  at  $t = 1$

(A) 0 (B) 2  
(C) 19 (D) 56

114. If  $0 < x < 1$ , which of the following terms increases as  $x$  increases?

(i)  $1 - x^3$   
(ii)  $x - 1$   
(iii)  $1/x^2$   
(A) (i) only (B) (ii) only  
(C) (iii) only (D) (i) and (iii)

115. In the matrix equation  $Px = q$ , which of the following is a necessary condition for existence of at least one solution for unknown vector  $x$ ?

(A) Matrix  $P$  must be singular.  
(B) Matrix  $P$  must be square.  
(C) Augmented matrix  $[Pq]$  must have the same rank as matrix  $P$ .  
(D) Vector  $q$  must have only non-zero elements.

116. Consider the function  $y = x^2 + \frac{250}{x}$

At  $x = 5$ , the function attains.

(A) Maximum (B) Minimum  
(C) 0 (D) 1

117. The mean of set of observations is  $\bar{x}$ . If each observation is divided by  $k$  and then increased by 5, then the mean value of new set is.

(A)  $\frac{\bar{x}}{k}$  (B)  $\frac{\bar{x} + 5}{k}$   
(C)  $\frac{\bar{x}k}{5}$  (D)  $\frac{\bar{x} + 5k}{k}$

118.  $f(x) = x^2 + 1$

If  $x_i$  is very close to the root then according to Newton Raphson iterative procedure,  $x_{i+1}$  is

(A)  $\frac{x_i^2 - 1}{2x_i}$

(B)  $\frac{2x_i}{x_i^2 - 1}$

(C)  $\frac{2x_i}{x_i^2 + 1}$

(D)  $\frac{x_i^2 + 1}{2x_i}$

119. The function  $f(x)$  is evaluated at four values of  $x$  at regular interval as follows.

$x$	0	1	2	3
$f(x)$	1	0.5	0.2	0.1

Evaluate  $\int_0^3 f(x) dx$  using Trapezoidal rule.

(A) 0.9

(B) 1.8

(C) 1.25

(D) 2.5

120. A gradually varied flow profile can be governed by equation  $\frac{dy}{dx} = f(x, y)$  where  $x$  is distance and  $y$  is the depth of water above the bed level. Which of the following methods can be used for solution?

(A) Linear regression method      (B) Simplex method  
 (C) Gauss elimination method      (D) Runge-Kutta Method

121. Maximum effective slenderness ratio for a member carrying compressive loads resulting from dead loads and imposed loads should not exceed \_\_\_\_\_

(A) 180

(B) 250

(C) 300

(D) 350

122. According to IS 800:2007 the maximum bearing pressure between the base plate and the concrete bedding should not exceed.

(A)  $0.4 f_{ck}$

(B)  $0.6 f_{ck}$

(C)  $0.45 f_{ck}$

(D)  $0.7 f_{ck}$





130. Crack width restriction of concrete is of prime importance during design of  
(A) Multi storeyed structures      (B) Earthquake resisting structures  
(C) Industrial structures      (D) Water retaining structures

131. Under reamed piles are adopted as foundation when the soil strata consists of  
(A) Non expansive soil      (B) Soft soil with filled up ground  
(C) Sandy soil      (D) Hard rock

132. Match the lists

Type of Survey	Recommended Scale
(p) Building survey	(i) 1:25000
(q) Topographical survey	(ii) 1:10000
(r) Route Survey	(iii) 1:1000

(A) p-(i), q-(ii), r-(iii)      (B) p-(iii), q-(i), r-(ii)  
(C) p-(iii), q-(ii), r-(i)      (D) p-(ii), q-(i), r-(iii)

133. As per IS:13920, ductile detailing is not mandatory for lateral load resisting systems of RC structures in seismic zone \_\_\_\_\_.  
(A) Four      (B) Two  
(C) Three      (D) Five

134. For normal M20 reinforced concrete, the minimum time of removing the props of form work for slabs with spans less than 4.5m is  
(A) 21 days      (B) 3 days  
(C) 7 days      (D) 28 days

135. For normal M20 reinforced concrete, the time of removing the vertical form work for columns as per IS 456 is  
(A) 1 day      (B) 3 days  
(C) 14 days      (D) 28 days

136. 53 grade OPC cement lying in bag storage at local vendor should be tested before it's use, if the period of storage is more than \_\_\_\_\_  
(A) 9 months (B) 3 months  
(C) 1 year (D) 2 year

137. A cement bag stored for two years is likely to result in  
(A) Change in the colour of cement  
(B) Increase in the strength of cement  
(C) Loss of strength of cement  
(D) Increase in fineness of cement

138. Compaction of soil is measured in terms of \_\_\_\_\_  
(A) Dry density (B) Moisture content  
(C) Compressibility (D) Permeability

139. The main observation of the plate load test is \_\_\_\_\_.  
(A) Settlement of the test plate (B) Rotation of test plate  
(C) Bending of the test plate (D) Settlement of soil

140. For verifying characteristics compressive strength the M25 grade of concrete, which is the test done in the laboratory as per IS 456?  
(A) Compression test on 15 cm cubes at 28 days  
(B) Compression test on 10cm cubes at 28 days  
(C) Split test on 15 cm dia cylinder on 28 days  
(D) Compression test on 15 cm cubes at 7 days

141. Which of the following is not a mode of failure of a single riveted joint?  
(A) Tearing of Plate (B) Shearing of Plate  
(C) Shearing of Rivet (D) Crushing of Rivet

142. Creep of concrete is  
(A) Deformation due to sudden load  
(B) Deformation due to seismic load  
(C) Shrinkage due to temperature  
(D) Deformation due to sustained load



143. Shrinkage crack in RCC slab can appear due to  
(A) Improper curing (B) Improper loading  
(C) Improper formwork (D) Improper mixing of concrete

144. According to IS 1641, The fire resistance of an RCC structural element is expressed in terms of  
(A) Strength in N/mm<sup>2</sup> (B) Temperature in deg. Celsius  
(C) Time in hours (D) Deformation in mm

145. Acidity in natural water in surface water bodies is mainly due to  
(A) Oxygen (B) BOD  
(C) Carbon dioxide (D) Sulfuric and nitric acids

146. EIS is acronym of  
(A) Efficient Import Strategy  
(B) Environmentally Important Strategy  
(C) Energy Impact Statement  
(D) Environmental Impact Statement

147. SO<sub>2</sub> and CO as air pollutants adversely affect  
(A) Oxygen carrying capacity of blood and functioning of lungs respectively  
(B) Functioning of the respiratory system and oxygen carrying capacity of blood respectively  
(C) Functioning of the respiratory system and brain respectively  
(D) Functioning of air passages and chest respectively

148. Column I lists various impurities in drinking water and Column II lists effects/ diseases caused by these impurities.

Column I	Column II
P. Nitrate > 45 ppm	1. Minamata disease
Q. Mercury > 0.001 ppm	2. Discoloration of teeth
R. Fluoride < 1.0 ppm	3. Cavities in teeth
S. Fluoride > 1.5 ppm	4. Methemoglobinemia
	5. Pneumoconiosis

The correct match of the column I with column II is

(A) P-4, Q-5, R-2, S-3 (B) P-4, Q-1, R-3, S-2  
(C) P-4, Q-1, R-2, S-3 (D) P-5, Q-4, R-1, S-2

149. The ozone layer thickness is measured in  
(A) Dobson units (B) Decibels  
(C) Becquerel (D) Hazen units

150. Among the following which one has the highest Global warming potential?  
(A) Carbon dioxide (B) Methane  
(C) Nitrous oxide (D) Chlorofluorocarbons

151. Thermal Pollution refers to  
(A) Discharge of hot flue gases from chimney  
(B) Discharge of high temperature liquid effluents in water bodies  
(C) Discharge of hot exhaust gases from vehicles  
(D) Release of foul gases from solid waste dumps during summer

152. Identify from the following, energy source/s which is / are not renewable  
(i) Biomass energy (ii) Geo-thermal energy  
(iii) Wind energy (iv) Tidal and wave energy  
(v) Natural gas  
(A) (i) only (B) (i) and (v) only  
(C) (v) only (D) (i) and (iv)

153. One of the following is not the effect of climate change  
(A) Increase in global temperature  
(B) Change in rainfall pattern leading to heavy floods and draughts  
(C) Ozone layer depletion  
(D) Loss of biodiversity

154. The chemical compounds responsible for production of photochemical smog are  
(A) Oxides of nitrogen only  
(B) Hydrocarbons only  
(C) Carbon dioxide  
(D) Oxides of nitrogen and Hydrocarbons



155. Anthropogenic emission of chlorofluorcarbons (CFCs) is likely to deplete the ozone layer in troposphere leading to increase \_\_\_\_\_ on earth surface

(A) Radioactivity (B) Air temperature  
(C) Ultraviolet radiation (D) Acid rain

156. Ganga water pollution is mainly due to discharge of

(A) Agricultural runoff  
(B) Wastes from forests  
(C) Industrial and domestic wastewater  
(D) Spillages from mines

157. The nature of tasks assigned to construction project management consultant generally includes

(A) Promoting and financing the project  
(B) Preparing architectural and structural drawings  
(C) Tendering, supervising works and controlling of project time, cost and quality.  
(D) Supplying key equipments.

158. Which of the following parameters is not a part of typical construction project lifecycle till commissioning?

(A) Mobilization stage (B) Operation and maintenance stage  
(C) Construction stage (D) Formulation stage

159. Which of the following represent the construction management functions?

(i) Planning (ii) Marketing  
(iii) Controlling (iv) Organizing

(A) Only (i) and (ii) (B) (i), (ii) and (iii)  
(C) Only (ii) and (iii) (D) (i), (iii) and (iv)

160. Negative value of cost variance (CV) of construction project indicates that project is

(A) Behind schedule (B) Over budget  
(C) Under budget (D) On schedule

161. BOT in infrastructure projects delivery model means  
(A) Buy, own and transport      (B) Bridge overload test  
(C) Bill of transfer      (D) Build, operate and transfer

162. In project network analysis, which of the following statements is TRUE?  
(A) All critical activities must join two critical events  
(B) All activities joining two critical events are necessarily critical  
(C) Some activities having non zero floats can be critical  
(D) Dummy activities can never become critical

163. In PERT, how much probability is considered for expected activity duration?  
(A) 33%      (B) 50%  
(C) 67%      (D) 99%

164. In PERT, If  $T_o$  and  $T_p$  are optimistic time and pessimistic time which an activity takes for its performance, then assumed standard deviation to measure uncertainty is taken as  
(A)  $(T_o + T_p)/6$       (B)  $(4T_o + 2T_p)/6$   
(C)  $(2T_o + 4T_p)/6$       (D)  $(T_p - T_o)/6$

165. To prepare the feasibility report of the fly over project for MDR at railway crossing, which of the following points are examined?  
(i) The basic model of the fly over with respect to width, length of the approach road, etc.  
(ii) Approximate cost of construction and source of fund.  
(iii) Detail drawings  
(iv) Specifications of each items with complete description  
(A) (i), (ii), (iii)      (B) (i) and (ii)  
(C) (iii) and (iv)      (D) (i), (ii) and (iv)

166. Quality assurance in construction project refers to

- (A) Identification of relevant quality standards and determining how to satisfy them.
- (B) Monitoring of project results related to the compliance to quality standards
- (C) Identification of means to eliminate non-conformity of quality standard
- (D) Consistent evaluation of project performance to provide confidence that the project satisfies the relevant standards.**

167. Which of the following is not the tool in Total Quality Management Process.

- (A) Histograms
- (B) Cause and effect diagrams
- (C) Pareto diagram
- (D) Chromatogram**

168. As a part of safety management in construction projects, which of the following actions is taken?

- (A) Management of disposal of waste from construction site
- (B) Periodic review of performance of workers
- (C) Regular and stipulated inspection of works and machinery/equipments for enforcement of mandatory regulations.**
- (D) Control and monitoring cost changes

169. Gypsum is added to Portland cement during its manufacturing to

- (A) Accelerate the setting time
- (B) Retard the setting time**
- (C) Decrease the burning temperature
- (D) Improve grinding

170. White cement is white in colour due to

- (A) Use of limestone and china clay free from metal oxides**
- (B) Its modified manufacturing process
- (C) Specific chemical treatment given to ordinary cement
- (D) Marble powder



171. Which one of the following is relatively purest form of iron?  
(A) Cast iron (B) Low carbon steel  
(C) Wrought iron (D) Pig iron

172. Seasoning of timber is done  
(A) To make it water proof  
(B) To remove knots and twisted fibers  
(C) To reduce moisture content  
(D) To harden its outer surface

173. The property of materials by which they can be drawn into wires is known as  
(A) Ductility (B) Malleability  
(C) Creep (D) Hardness

174. Brass cannot be used as reinforcement in concrete because  
(A) Its density is greater than concrete  
(B) Its density is smaller than iron  
(C) It is very expensive  
(D) Its coefficient of thermal expansion is higher than concrete

175. A relatively high water absorption of a common burnt clay brick indicates  
(A) High bond strength with mortar  
(B) High shrinkage of brick  
(C) High strength of brick  
(D) Need for more mortar for plastering

176. A brass tube fits tightly into a steel tube. To loosen the brass tube from steel tube.  
(A) The assembly should be cooled  
(B) The assembly should be heated  
(C) Only steel tube should be cooled  
(D) Only brass tube should be heated



182. Select the correct purposes.

By government departments the e-tendering process is carried out on n-procure portal

- (i) to save processing time
- (ii) to release the cashless payment toward work done
- (iii) to bring transparency in the procurement process

(A) only (i)	(B) (i) and (ii)
(C) only (ii)	(D) (i) and (iii)

183. Which of the following is a web service application that provides a mapping interface with detailed imagery and embedded map data by ISRO?

(A) 2D Bhuvan	(B) E-Dhara
(C) E-Jamin	(D) INSAT2D

184. The automation in operation of public utility services such as bulk water supply and distribution system can be achieved by implementation of

(A) EPANET	(B) CCTV
(C) SCADA	(D) Automatic Weather Stations

185. To provide a support to all academic levels, a framework of virtual repository of learning resources with a single - window search facility is provided by

(A) IITK Library	(B) NDL of India
(C) RUSA	(D) Google Classroom

186. SWAYAM is indigenously developed IT platform, that facilitates

- (A) Hosting of the courses, taught in classrooms to be accessed by anyone at free of cost.
- (B) Online job applications in government departments
- (C) Hosting national talent search competitions
- (D) Grievances redress





