BJF (CBRT)

PROVISIONAL ANSWER KEY

Name of the post	Chief Fire Officer, Class-1, Gandhinagar Municipal Corporation
Advertisement No.	10/2024-25
Preliminary Test Held On Que. No	12-11-2024 001-300
Publish Date	13-11-2024
Last Date to Send Suggestion (s)	18-11-2024

THE LINK FOR ONLINE OBJECTION SYSTEM WILL START FROM 14-11-2024; 04:00 PM ONWARDS

Instructions / સૂ ચના

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) <u>Suggestions regarding question nos. and options other than provisional answer key (Master Question</u> <u>Paper) shall not be considered.</u>
- (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 <mark>ઓનલાઈન ઓબ્જેકશન સબમીશન સીસ્ટમ</mark> દ્વારા જ સબમીટ કરવાના રહેશે.રૂબરૂ, ટપાલ અથવા ઈ-મેઈલ દ્વારા આયોગની કચેરીએ મોકલવામાં આવેલ વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સ્ચનો રજૂ કરવા વેબસાઈટ / ઓનલાઈન ઓબ્જેકશન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમ્નાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર) ના પ્રશ્નક્રમાંક 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 સ્ચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉતરવઠીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સ્ત્રયવેલ જવાબ અને ઉતરવઠીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સ્ચનો ધ્યાને 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 : <u>http://gpsc.safevaults.in/login/</u>

001.	યાર્લુંગ ઝાંગબો (Yarlung Zangbo) નદી ભારતમાં તરીકે ઓળખાય છે.	
	(A) ગંગા	(B) સિંધુ
	(C) બ્રહ્મપુત્રા	(D) મહાનદી
002.	સલાલ યોજના એ નદી ઉપર છે.	
	(A) ચિનાબ	(B) જેલમ
	(C) રાવી	(D) સતલજ
003.	ભારત પૃથ્વીની સપાટીના પ્રતિશત આવર	રી લે છે.
	(A) 2.4	(B) 3.4
	(C) 4.4	(D) 5.4
004.	15 ઓગષ્ટ, 2024ના રોજ ભારતેમો સ્વ	તંત્રતા દિવસ ઉજવ્યો.
	(A) 76	(B) 77
	(C) 78	(D) 79
005.	2011ની વસ્તી ગણતરી અનુસાર,	
	1. ગુજરાતમાં વસ્તીની ગીચતા 308 પ્રતિ ચોરસ કિ	કેલોમીટર છે.
	2. ગુજરાતમાં લિંગ ગુષ્રોત્તર 918 (આશરે) છે.	
	3. ગુજરાતમાં સાક્ષરતા દર 87.3 (આશરે) છે.	
	ઉપરના પૈકી કયા વિધાનો સત્ય છે ?	
	(A) માત્ર 1 અને 2	(B) માત્ર 2 અને 3
	(C) માત્ર 1 અને 3	(D) 1, 2 તથા 3 તમામ સત્ય છે.
006.	આપણા રાષ્ટ્ર ધ્વજની પહોળાઈનો તેની લંબાઈ સ	ાથેનો ગુણોત્તર છે.
	(A) 3:5	(B) 2:3
	(C) 2:4	(D) 3:4
007.	ભારતના પ્રતીકની તક્તીની નીચે અંક્તિ કરેલ શબ્ધ	દો 'સત્યમેવ જયતે' શેમાંથી લેવામાં આવ્યા છે ?
	(A) ઋગ્વेદ	(B) સતપથ બ્રાહ્મણ
	(C) મુંડક ઉપનિષદ	(D) રામાયણ
008.	નીચેના પૈકી કયું પુસ્તક એ પારસીઓનો પવિત્ર ગ્રં	થ છે ?
	(A) ગીતા (Gita)	(B) તોરાહ (Torah)
	(C) બાઈબલ (Bible)	(D) ઝંદ અવેસ્તા (Zend Avesta)
009.	લોક ચિત્રકળાની 'મધુબની' શૈલી ભારતમાં નીચેન	ા પૈકી કયા રાજ્યમાં લોકપ્રિય છે ?
	(A) ઉત્તર પ્રદેશ	(B) રાજસ્થાન
	(C) મધ્યપ્રદેશ	(D) બિહાર
010.	કુસુમ વિલાસ પેલેસ (મહેલ) એ ખાતે સિ	સ્થેત છે.
	(A) છોટા ઉદેપુર	(B) વડોદરા
	(C) મોરબી	(D) વેરાવળ

001.	The Yarlung Zangbo river, in India, is known as	
	(A) Ganga	(B) Indus
	(C) Brahmaputra	(D) Mahanadi
002.	The Salal Project is on the river	
	(A) Chenab	(B) Jhelum
	(C) Ravi	(D) Sutlej
003.	The percentage of earth surface covered by	India is
	(A) 2.4	(B) 3.4
	(C) 4.4	(D) 5.4
004.	India Celebrated,th Independence	Day on, 15 August, 2024. Fill in the Gap
	(A) 76	(B) 77
	(C) 78	(D) 79
005.	As per census 2011,	
	1. Density of population in Gujarat is 308 p	ersons / km ²
	2. Sex ratio of Gujarat is 918 (App.)	
	3. Literacy rate of Gujarat is 87.3 (App.)	
	Which of the above mentioned statements a	re correct?
	(A) only 1 and 2	(B) only 2 and 3
	(C) only 1 and 3	(D) 1, 2 and 3 all are correct
006.	The ratio of width of our National Hag to it	s length is
	(A) 3:5	(B) 2:3
	(C) 2:4	(D) 3:4
007.	The words 'Satyameva Jayate' inscribed be from	elow the base plate of the emblem of India are taken
	(A) Rigveda	(B) Satpath Brahmana
	(C) Mundak Upanishad	(D) Ramayana
008.	Which is Holy book of Parsis?	
	(A) Gita	(B) Torah
	(C) Bible	(D) Zend Avesta
009.	'Madhubani', a style of folk paintings, is po	pular in which of the following states in India?
	(A) Uttar Pradesh	(B) Rajasthan
	(C) Madhya Pradesh	(D) Bihar
010.	Kusum Vilas Palace is located at	
	(A) Chotta Udepur	(B) Vadodara
	(C) Morbi	(D) Veraval
	(C) Morbi	(D) Veraval

011.	સાહિત્ય અને કળાના મહાન આશ્રયદાતા રાજા ભોજ નીચેના પૈકી કયા રાજવંશના હતા ?	
	(A) કારકોટા (Karkota)	(B) ઉત્પલ (Utpala)
	(C) પરમાર (Parmara)	(D) ગુર્જર પ્રતિહાર (Gurjar Pratihara)
012.	બ્રિટીશ સામ્રાજ્યવાદ દરમ્યાન ભારતના આર્થિક ધોવાષ્ પ્રતિપાદિત કરવામાં આવ્યો હતો.	ા (economic drain of India) નો સિદ્ધાંત દ્વારા
	(A) જવાહરલાલ નહેરૂ	(B) દાદાભાઈ નવરોજી
	(C) આર. સી. દત્ત	(D) એમ. કે. ગાંધી
013.	પ્લાસીનું યુદ્ધમાં લડાયું હતું.	
	(A) 1757	(B) 1782
	(C) 1748	(D) 1764
014.	મુલ્કી સેવા માટેની સ્પર્ધાત્મક પરીક્ષાની પદ્ધતિનો સૈદ્ધાંતિ	ક સ્વીકાર કયા વર્ષમાં કરવામાં આવ્યો હતો ?
	(A) 1833	(B) 1853
	(C) 1858	(D) 1882
015.	વિજયનગરના શાસક કૃષ્ણદેવરાયની કૃતિ 'અમુક્ત માલ્ય	દા' એ ભાષામાં હતી.
	(A) સંસ્કૃત	(B) તમિળ
	(C) કન્નડ	(D) તેલુગુ
016.	સૈન્યો, કે જે સમ્રાટ દારા રચવામાં આવેલ હતા પરંતુ તેમને 'માનસબદારો'ના હવાલે મૂકવામાં આવતા હતા, તે	રાજ્ય દ્વારા સીધી ચૂકવણી કરવામાં આવતી ન હતી, અને તેમને તરીકે ઓળખાતા હતા.
	(A) વાલાશાહી (Walashahi)	(B) બારાવાર્ડી (Barawardi)
	(C) જેક્યુમાકી (Jcumaki)	(D) દાખિલી (Dakhili)
017.	નીચેના પૈકી કયા હવાઈ મથક ને 'જગદગુરૂ સંત તુકારામ છે ?	મહારાજ હવાઈ મથક' તરીકે નામ બદલવા માટે આયોજન કરેલ
	(A) નાગપુર હવાઈ મથક	(B) પુણે હવાઈ મથક
	(C) મુંબઈ હવાઈ મથક	(D) ઔરંગાબાદ હવાઈ મથક
018.	જ્યારે દેશ સ્વતંત્ર થયો ત્યારે સૌરાષ્ટ્ર સહિત, ગુજરાતમાં	દેશી રજવાડા હતા. ખાલી જગ્યા પૂરો.
	(A) 365	(B) 366
	(C) 367	(D) 368
019.	ભારતમાં કેન્દ્રીય બેંકીંગ કામગીરીઓ દ્વારા કરવ	ામાં આવે છે.
	1. સેન્ટ્રલ બેંક ઑફ ઈન્ડિયા	
	2. રીઝર્વ બેંક ઑફ ઈન્ડિયા	
	3. સ્ટેટ બેંક ઑફ ઈન્ડિયા	
	4. પંજાબ નેશનલ બેંક	
	(A) 1, 2	(B) 2
	(C) 1	(D) 2, 3

(A) Karkola (B) Utpala (C) Paramara (D) Gurjara Pratihara 012. The theory of economic drain of India during British imperialism was propounded by (A) Jawaharlal Nehru (B) Dadabhai Naoroji (C) R. C. Dutt (D) M. K. Gandhi 013. The Battle of Plassey was fought in (A) 1757 (B) 1782 (C) 1748 (D) 1764 014. The system of competitive examination for civ-I service was accepted in principle in the year (A) 1833 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansabadars were known as (A) Walashahi (B) Barawardi (C) J. Cumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru- Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. Which airport is set to be renamed "Jagadguru- Sant Tukaram Maharaj Airport"? (A) 365 (D) 368 019. The central banking functions in India are p-t	011.	To which of the following dynasties did King Bhoja, a great patron of literature and art belong	
 012. The theory of economic drain of India during British imperialism was propounded by (A) Jawaharlal Nchru (B) Dadabhai Naoroji (C) R. C. Duti (D) M. K. Gandhi 013. The Battle of Plassey was fought in (A) 1757 (B) 1782 (C) 1748 (D) 1764 014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (C) 1888 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tanil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 		(A) Karkola	(B) Utpala
(A) Jawaharlal Nehru (B) Dadabhai Naoroji (C) R. C. Dutt (D) M. K. Gandhi 013. The Battle of Plassey was fought in (A) 1757 (B) 1782 (C) 1748 (D) 1764 014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (B) 1853 (C) 1748 (D) 1764 014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (B) 1853 (C) 1858 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367		(C) Paramara	(D) Gurjara Pratihara
(C) R. C. Dutt (D) M. K. Gandhi 013. The Battle of Plassey was fought in (A) 1757 (B) 1782 (C) 1748 (D) 1764 014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (B) 1853 (C) 1858 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) J. Cumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 <td>012.</td> <td>The theory of economic drain of India d</td> <td>luring British imperialism was propounded by</td>	012.	The theory of economic drain of India d	luring British imperialism was propounded by
013. The Battle of Plassey was fought in (A) 1757 (B) 1782 (C) 1748 (D) 1764 014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (B) 1853 (C) 1748 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashabi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Sarashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 </td <td></td> <td>(A) Jawaharlal Nehru</td> <td>(B) Dadabhai Naoroji</td>		(A) Jawaharlal Nehru	(B) Dadabhai Naoroji
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 (C) 1748 (D) 1764 (D) 1764 (D) 1882 (D) 1833 (D) 1858 (D) 1882 (D) 1883 (D) 1882 (D) 1884 (D) 1882 (D) 1882 (D) 1884 (D) 1882 (D) 1884 (D)	013.	The Battle of Plassey was fought in	
014. The system of competitive examination for civil service was accepted in principle in the year (A) 1833 (B) 1853 (C) 1858 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India . 2. Reserve Bank of India . 3. State Bank of India . 4. Punjab National Bank (A) 1, 2		(A) 1757	(B) 1782
(A) 1833 (B) 1853 (C) 1858 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(C) 1748	(D) 1764
(C) 1858 (D) 1882 015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the Central Bank of India Reserve Bank of India State Bank of India Punjab National Bank (A) 1, 2 (B) 2 	014.	The system of competitive examination	for civil service was accepted in principle in the year
015. The Vijayanagara ruler, Kirshnadev Raya's work Amukiamalyacla, was in (A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(A) 1833	(B) 1853
(A) Sanskrit (B) Tamil (C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2 		(C) 1858	(D) 1882
(C) Kannada (D) Telugu 016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2 	015.	The Vijayanagara ruler, Kirshnadev Ra	ya's work Amukiamalyacla, was in
016. The troops raised by the emperor but not paid directly by the state and place under the charge of mansahadars were known as		(A) Sanskrit	(B) Tamil
of mansahadars were known as (A) Walashahi (B) Barawardi (C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(C) Kannada	(D) Telugu
(A) Walashahi(B) Barawardi(C) JCumaki(D) Dakhili017.Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"?(A) Nagpur airport(B) Pune airport(C) Mumbai airport(D) Aurangabad airport018.When the country became independent, there were princely states in Gujarat, including Saurashtra.(A) 365(B) 366(C) 367(D) 368019.The central banking functions in India are performed by the1. Central Bank of India2. Reserve Bank of India3. State Bank of India4. Punjab National Bank(A) 1, 2(B) 2	016.	The troops raised by the emperor but n	ot paid directly by the state and place under the charge
(C) JCumaki (D) Dakhili 017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		of mansahadars were known as	
017. Which airport is set to be renamed "Jagadguru Sant Tukaram Maharaj Airport"? (A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(A) Walashahi	(B) Barawardi
(A) Nagpur airport (B) Pune airport (C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(C) JCumaki	(D) Dakhili
(C) Mumbai airport (D) Aurangabad airport 018. When the country became independent, there were princely states in Gujarat, including Saurashtra. (A) 365 (B) 366 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2	017.	Which airport is set to be renamed "Jag	gadguru Sant Tukaram Maharaj Airport"?
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Saurashtra. (A) 365 (C) 367 (D) 368 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2		(C) Mumbai airport	(D) Aurangabad airport
 (C) 367 (D) 368 019. The central banking functions in India are performed by the Central Bank of India Reserve Bank of India State Bank of India Punjab National Bank (A) 1, 2 	018.	• •	there were princely states in Gujarat, including
 019. The central banking functions in India are performed by the 1. Central Bank of India 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 		(A) 365	(B) 366
1. Central Bank of India2. Reserve Bank of India3. State Bank of India4. Punjab National Bank(A) 1, 2(B) 2		(C) 367	(D) 368
 2. Reserve Bank of India 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2 	019.	The central banking functions in India a	are performed by the
 3. State Bank of India 4. Punjab National Bank (A) 1, 2 (B) 2 		1. Central Bank of India	
4. Punjab National Bank (A) 1, 2 (B) 2		2. Reserve Bank of India	
(A) 1, 2 (B) 2		3. State Bank of India	
		4. Punjab National Bank	
(C) 1 (D) 2, 3		(A) 1, 2	(B) 2
		(C) 1	(D) 2, 3

020.	ગીલ્ટ-એજ્ડ માર્કેટ (Gilt-edged market) નો અર્થ	
	(A) બુલીયન માર્કેટ (bullion market)	
	(B) સરકારી જામીનગીરીઓનું માર્કેટ (market of go	vernment securities)
	(C) Guns નું માર્કેટ (market of guns)	
	(D) શુદ્ધ ધાતુઓનું માર્કેટ (market of pure metals)	
021.	ભારત માં સિક્કાની દશાંશ પદ્ધતિમાં પરિવર્તિ	ત થઈ ગયું.
	(A) એપ્રિલ 1956	(B) એપ્રિલ 1957
	(C) એપ્રિલ 1958	(D) એપ્રિલ 1959
022.	બંધારણ સભામાં ના રોજ બંધારણ સ્વીકારવા	માં આવ્યું ઘડવામાં આવ્યું અને આપણને આપવામાં આવ્યું.
	(A) 26મી જાન્યુઆરી, 1949	(B) 26મી માર્ચ, 1949
	(C) 26મી ઓગષ્ટ, 1949	(D) 26મી નવેમ્બર, 1949
023.	નીચે વિષયવસ્તુ અને કલમની જોડી આપેલ છે. કઈ જોડ	ી યોગ્ય રીતે જોડાયેલી નથી ?
	(A) 14 - કાયદા સમક્ષ સમાનતા	
	(B) 19 - વાણી સ્વાતંત્ર્ય વગેરે સંબંધી અમુક હકોનું રક્ષ	ાણ
	(C) 21 - જીવન અને વ્યક્તિગત સ્વતંત્રતાનું રક્ષણ	
	(D) 25 - કારખાના વગેરેમાં બાળકોને નોકરીએ રાખવ	ાનો પ્રતિબંધ
024.	— નીચે આપેલ વિષયવસ્તુ અને કલમોને રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતોમાં કરેલ ઉલ્લેખના આધારે ચકાસો.	
	1. 39 - રાજ્યએ અનુસરવાની નીતિના અમુક સિદ્ધાંત	à
	2. 44 - નાગરિકો માટે એક સમાન દીવાની કાયદા	
	(A) માત્ર 1 સાચું છે.	(B) માત્ર 2 સાચું છે.
	(C) 1 તથા 2 બંને સાચાં છે.	(D) 1 તથા 2 બંને સાચા નથી.
025.	સંઘની સંસદ એ ની બનેલી હશે.	
	(A) રાષ્ટ્રપતિ	(B) રાજ્યોની પરિષદ
	(C) લોકસભા	(D) (A), (B) તથા (C) તમામ
026.	જ્યારે સંસદની બેઠક ચાલુ ન હોય, ત્યારે રાષ્ટ્રપતિને વટ છે ?	હુકમો પ્રસિદ્ધ કરવાની સત્તા કઈ કલમ અંતર્ગત આપવામાં આવી
	(A) 120	(B) 121
	(C) 123	(D) 124
027.	ના રોજ કેબીનેટે ઠરાવ પસાર કરીને આયોજ for Transforming India)ની સ્થાપના કરી.	ન પંચના સ્થાને નવીન NITI આયોગ (National Institution
	(A) 1 જાન્યુઆરી 2015	(B) 1 જાન્યુઆરી 2016
	(C) 1 જાન્યુઆરી 2017	(D) 1 જાન્યુઆરી 2018
028.	ન્યાયતંત્રને કારોબારીથી અલગ કરવા બાબતનો ઉલ્લેખ	ભારતના બંધારણની કઈ કલમમાં કરવામાં આવેલ છે ?
	(A) 46	(<u>B)</u> 47
	(C) 49	(D) 50

020.	Gilt-edged market means	
	(A) bullion market	
	(B) market of government securities	
	(C) market of guns	
	(D) market of pure metals	
021.	India changed over to the decimal system of	of coinage in
	(A) April 1956	(B) April 1957
	(C) April 1958	(D) April 1959
022.	In the constituent assembly, this constitution	on was adopted enacted and given to ourselves on
	(A) 26 th January, 1949	(B) 26 th March, 1949
	(C) 26 th August. 1949	(D) 26 th November, 1949
023.	The pairs showing the contents and the art	ticle are mentioned below. Which pair is not correct?
	(A) 14 - Equality before law.	
	(B) 19 - Protection of certain rights regard	ling freedom of speech, etc.
	(C) 21 - Protection of life and personal libe	erty.
	(D) 25 - Prohibition of employment of child	dren in factories, etc.
024.	Evaluate the contents and the Articles me POLICY.	entioned in DIRECTIVE PRINCIPLES OF STATE
	1. 39 - Certain principles of policy to be f	followed by the State.
	2. 44 - Uniform civil code for the citizens.	
	(A) only 1 is correct	(B) only 2 is correct
	(C) both 1 and 2 are correct	(D) both 1 and 2 are not correct
025.	A Parliament for the Union, shall consist o	f
	(A) the President	(B) the Council of States
	(C) the House of the People	(D) (A), (B) and (C) all
026.	Power of President to promulgate Ordinate which article?	nces during recess of Parliament, is mentioned under
	(A) 120	(B) 121
	(C) 123	(D) 124
027.	On, a Cabinet resolution was pass formed NITI Aayog. (National Institution	ed, to replace the Planning Commission with the newly for Transforming India)
	(A) 1 January 2015	(B) 1 January 2016
	(C) 1 January 2017	(D) 1 January 2018
028.	Separation of judiciary from executive is n	nentioned, under which article of Indian constitution?
	(A) 46	(B) 47
	(C) 49	(D) 50

029.	ચૂંટશીઓના દેખરેખ માર્ગદર્શન અને નિયંત્રણ એ ચૂંટશીપંચમાં નિહિત કરવા બાબતનો ઉલ્લેખ ભારતના બંધારણની કર્દ કલમમાં કરવામાં આવેલ છે ?	
	(A) 322	(B) 323
	(C) 324	(D) 325
030.	કેન્દ્રીય માહિતી આયોગની રચના ક્યારથી કરવામાં અ	નાવી ?
	(A) 12-10-2003	(B) 12-10-2004
	(C) 12-10-2005	(D) 12-10-2006
031.	હવામાં કયા વાયુની હાજરીને લીધે હવામાં પિત્તળ (B	rass) એ રંગહીન થઈ જાય છે.
	(A) ઓક્સીજન	(B) હાઈડ્રોજન સલ્ફાઈડ
	(C) કાર્બન ડાયોક્સાઈડ	(D) નાઈટ્રોજન
032.	નીચેના પૈકી કોનું સામાન્ય નામ વોશીંગ સોડા છે ?	
	(A) સોડીયમ કાર્બોનેટ	(B) કેલ્શીયમ બાયકાર્બોનેટ
	 (C) સોડીયમ બાયકાર્બોનેટ	(D) કેલ્શીયમ કાર્બોનેટ
033.	ધ્વનિના કંપવિસ્તારને માપવાનો એકમ કયો છે ?	
	(A) કુલંબ (Coulomb)	(B) હમ (Hum)
	(C) સાયકલ (Cycles)	(D) ડેસીબલ (Decibel)
034.	યુરેનિયમનો કયો સમસ્થાનિક એ શૃંખલા પ્રતિક્રિયાને	ટકાવી રાખવાની ક્ષમતા ધરાવે છે ?
	(A) U-235	(B) U-245
	(C) U-239	(D) U-238
035.	Epoxy રેસીન એતરીકે ઉપયોગમાં લેવાય	છે.
	(A) ડીટરજન્ટ (detergents)	(B) જંતુનાશક (insecticides)
	(C) એડહેસીવ (adhesives)	(D) પતંગીયા દૂર કરનાર (moth repellents)
036.	MOV extension એ સામાન્ય રીતે કયા પ્રકારની ફા	ાઈલના સંદર્ભમાં છે ?
	(A) Image ફાઈલ	(B) Animation / movie ફાઈલ
	(C) Audio ફાઈલ	(D) MS ઓફિસ ડોક્યુમેન્ટ
037.	VVVF નું પુરૂં નામ શું છે ?	
	(A) Variant Voltage Vile Frequency	(B) Variable Velocity Variable Fun
	(C) Very Very Vicious Frequency	(D) Variable Voltage Variable Frequency
038.	વાતાવરણનું નીચેના પૈકી કયું સ્તર એ ઓઝોનનું સ્તર કરવા માટે જવાબદાર છે ?	ધરાવે છે, કે જે પાર જાંબલી (Ultra violet) (UV) પ્રકાશનું શોષણ
	(A) ક્ષોભ્મ મંડળ (Troposphere)	(B) મધ્ય મંડળ (Mesosphere)
	(C) સમતાપ મંડળ (Stratosphere)	(D) ઉપરના પૈકી એક પણ નહીં
039.	ભારત પાસે આદર્શ રીતે જંગલની જમીનની અંદાજીત	ા ટકાવારી કેટલી હોવી જોઈએ ?
	(A) 15%	(B) 50%
	(C) 44%	(D) 33%

029.	The provision for Superintendence, direction and control of elections to be vested in an Flectior Commission, is mentioned which article of Indian Constitution?	
	(A) 322	(B) 323
	(C) 324	(D) 325
030.	The Central Information Commission has been	en constituted with effect from
	(A) 12-10-2003	(B) 12-10-2004
	(C) 12-10-2005	(D) 12-10-2006
031.	Brass gels discoloured in air because of the p	resence of which of the following gases in air?
	(A) Oxygen	(B) Hydrogen sulphide
	(C) Carbon dioxide	(D) Nitrogen
032.	Washing soda is the common name for	
	(A) Sodium carbonate	(B) Calcium bicarbonate
	(C) Sodium bicarbonate	(D) Calcium carbonate
033.	What is the unit for measuring the amplitude	of a sound?
	(A) Coulomb	(B) Hum
	(C) Cycles	(D) Decibel
034.	The isotope of uranium capable of sustaining	chain reaction is
	(A) U-235	(B) U-245
	(C) U-239	(D) U-238
035.	Epoxy resins are used as	
	(A) detergents	(B) insecticides
	(C) adhesives	(D) moth repellents
036.	MOV extension refers usually to what kind o	f file?
	(A) Image file	(B) Animation/movie file
	(C) Audio file	(D) MS Office document
037.	What does VVVF stand for?	
	(A) Variant Voltage Vile Frequency	(B) Variable Velocity Variable Fun
	(C) Very Very Vicious Frequency	(D) Invariable Voltage Variable Frequency
038.	Which of these layers of the atmosphere consist the Ultra-Violet (UV) light?	ts of the ozone layer that is responsible for absorbing
	(A) Troposphere	(B) Mesosphere
	(C) Stratosphere	(D) None of these
039.	What is the estimated percentage of forest lan	nd that India should ideally have?
	(A) 15%	(B) 50%
	(C) 44%	(D) 33%

040.	ચા અથવા કોફીના છોડ સ્ત્રોત સાથે કયો કેફી પદાર્થ સંક	કળાયેલો છે ?
	(A) કપૂર (Camphor)	(B) કેફીન (Caffeine)
	(C) ધતૂરા (Thorn apple)	(D) અફીણ (Opium Poppy)
041.	નીચેના પૈકી કઈ ભારતીય ટેનીસ જોડીએ હંગઝાઉ (Ha	ngzhou) ઓપન 2024 પુરૂષનો ડબલ ખિતાબ જીત્યો ?
	(A) જીવન નેહનચેઝિયાન અને વિજય સુંદર પ્રશાંત	
	(B) રોહન બોપન્ના અને મહેશ ભૂપતિ	
	(C) લીએન્ડર પેસ અને સુમિત નાગલ	
	(D) પુરવ રાજા અને દિવિજ શરણ	
042.	ખેડૂતો અને ઉદ્યોગ સાહસિકોને સહાય અર્થે ભારતના ક	યા રાજ્યએ 'બના કૈહ' (Bana Kaih) યોજના લાગુ કરી ?
	(A) નાગાલેન્ડ	(B) મિઝોરમ
	(C) આસામ	(D) મેઘાલય
043.	55મો ઈન્ટરનેશન ફિલ્મ ફેસ્ટીવલ ઑફ ઈન્ડિયા (IFF	I) ક્યાં યોજાનાર છે ?
	(A) મુંબઈ	(B) નવી દિલ્હી
	(C) ચેન્નાઈ	(D) ગોવા
044.	કૃષિ રોકાણ પોર્ટલ (Krishi Nivesh Portal) નો પ્રાથ	મિક હેતુ શું છે ?
	(A) કૃષિ રોકાણ અને ખેડૂત સહાય	
	(B) પાક ઉપજમાં વધારો	
	(C) ખેડૂતોને આબોહવાની અઘતન માહિતી આપવી	
	(D) કૃષિ ઉત્પાદનોના આંતરરાષ્ટ્રીય વેપારની સુવિધા	
045.	કઈ મુખ્ય બેંક પાર્ટનરશીપ ફોર કાર્બન એકાઉન્ટીંગ ફાર્ધ	
	(A) સ્ટેટ બેંક ઑફ ઈન્ડિયા	(B) યુનિયન બેંક ઑફ ઈન્ડિયા
	(C) પંજાબ નેશનલ બેંક	(D) ICICI બેંક
046.	જલદાપાડા રાષ્ટ્રીય ઉદ્યાન (Jaldapara National Pa	
	(A) આસામ	(B) પશ્ચિમ બંગાળ
	(C) મધ્યપ્રદેશ	(D) ઓરિસ્સા
047.	Nadi ઉત્સવ 2024નું ઉદ્દઘાટન ક્યાં કરવામાં આવ્યું ?	
	(A) મુંબઈ	(B) નવી દિલ્હી
	(C) કોલકત્તા	(D) બેંગાલૂર
048.	કુસ્તીમાં ઓલિમ્પીક મેડલ જીતનાર પ્રથમ ભારતીય મહિ	
	(A) વિનેશ ફોગટ	(B) ગીતા ફોગટ
	(C) સાક્ષી મલિક	(D) બબીતા કુમારી
049.	એકલવ્ય પુરસ્કાર માટે પસંદગી પામેલ તરવૈયા પ્રાત્યસ	
	(A) મહારાષ્ટ્ર	(B) કેરળ
0.50	(C) ઓરિસ્સા	(D) પશ્ચિમ બંગાળ
050.		રવા માટે કઈ સંસ્થાએ Intuitive સાથે ભાગીદારી કરી છે ?
	(A) AIIMS दिल्ही	(B) AIIMS ભોપાલ
	(C) AIIMS નાગપુર	(D) AIIMS પટણા

040.	Which drug is associated with the tea or coffee plant source?	
	(A) Camphor	(B) Caffeine
	(C) Thorn Apple	(D) Opium Poppy
041.	Which Indian tennis duo won the Hangzhou (Open 2024 men's doubles title?
	(A) Jeevan Nedunchezhiyan and Vijay Sundar	r Prashanth
	(B) Rohan Bopanna and Mahesh Bhupathi	
	(C) Leander Paes and Sumit Nagal	
	(D) Purav Raja and Divij Sharan	
042.	In which Indian state was the 'Bana Kaih' sche	me launched to support farmers and entrepreneurs?
	(A) Nagaland	(B) Mizoram
	(C) Assam	(D) Meghalaya
043.	Where will the 55 th International Film Festiva	al of India (IFFI) take place?
	(A) Mumbai	(B) New Delhi
	(C) Chennai	(D) Goa
044.	What is the primary purpose of the Krishi Ni	vesh Portal?
	(A) Agricultural investments and support farm	ners
	(B) Increasing crop yield	
	(C) Providing weather updates to farmers	
	(D) Facilitating international trade of agricult	ural products
045.	Which major bank became the first to join t (PCAF)?	he Partnership for Carbon Accounting Financials
	(A) Stale Bank of India	(B) Union Bank of India
	(C) Punjab National Bank	(D) ICICI Bank
046.	In which state is Jaldapara National Park, loc	cated?
	(A) Assam	(B) West Bengal
	(C) Madhya Pradesh	(D) Odisha
047.	Where was Nadi Utsav 2024 inaugurated?	
	(A) Mumbai	(B) New Delhi
	(C) Kolkata	(D) Bengaluru
048.	Who was the first Indian woman to win an O	lympic medal in wrestling?
	(A) Vinesh Phogat	(B) Geeta Phogat
	(C) Sakshi Malik	(D) Babita Kumari
049.	Which state is swimmer Pratyasa Ray from, w	vho has been selected for the Ekalabya Puraskar?
	(A) Maharashtra	(B) Kerala
	(C) Odisha	(D) West Bengal
050.	Which institution has partnered with Intuitive centre?	ve to establish a robotic-assisted surgery training
	(A) AIIMS Delhi	(B) AIIMS Bhopal
	(C) AIIMS Nagpur	(D) AIIMS Patna

051.	પ્રશ્નમાં એક રેખાંકિત શબ્દ છે અને ત્યારબાદ ચાર જવાબોની પસંદગી છે. રેખાંકિત શબ્દનો આવશ્યક ભાગ છે. તે શ પસંદ કરો.	
	<u>લણણી</u>	
	(A) પાનખર	(B) સ્ટોકપાઇલ
	(C) ટ્રેક્ટર	(D) પાક
052.	આ શ્રેણીમાં 7, 10, 8, 11, 9, 12, … આગળ	ા કયો નંબર આવવો જોઈએ ?
	(A) 7	(B) 10
	(C) 12	(D) 13
053.	દરેક 3 વર્ષના અંતરાલમાં જન્મેલા 5 બાળકોન	ી ઉંમરનો સરવાળો 50 વર્ષ છે. સૌથી નાના બાળકની ઉંમર કેટલી હશે ?
	(A) 4 વર્ષ	(B) 8 વર્ષ
	(C) 10 વર્ષ	(D) ઉપરોક્ત પૈકી એક પણ નહીં
054.	પિતાની ઉંમર તેમના પુત્ર રોનિત કરતા ત્રણ ગણ પછી તે રોનિતની ઉંમરના કેટલા ગણા હશે ?	શી વધારે છે. 8 વર્ષ પછી તે રોનિતની ઉંમર કરતાં અઢી ગણો હશે. વધુ 8 વર્ષ
	(A) 2 ગણા	(B) 2.5 ગણા
	(C) 2.75 ગણા	(D) 3 ગણા
055.	આજે સોમવાર છે. 61 દિવસ પછી કયો વાર હ	ડશે ?
	(A) બુધવાર	(B) શનિવાર
	(C) મંગળવાર	(D) ગુરૂવાર
056.	નીચેના આકૃતિ = આકારમાં કેટલા ખૂણા છે ?	
	(A) 5	(B) 6
	(C) 7	(D) 8
057.		્રેટેટેટ ોરસની લંબાઈ 6 સે.મી. હોય તો તેની પહોળાઈ કેટલી હશે ?
	(A) 4 સે.મી	(B) 6 સે.મી.
	(C) 10 સે.મી.	(D) 14 સે.મી.
058.	(C) 14 સાગ્યા A અને B મળીને રૂા. 1201 ધરાવે છે. જો A ની રકમનો (4/15), B ની રકમના (2/5) બરાબર હોય, તો B પાસે કેટર્લ રકમ છે ?	
	(A) રૂા. 460	(B) રૂા. 484
	(C) રૂા. 550	(D) રૂા. 664
059.	A, B, C નો પગાર 2:3:5 ગુણોત્તરમાં છે. જો તો તેમના પગારનો નવો ગુણોત્તર શું હશે ?	તેમના પગારમાં વધારો અનુક્રમે 15%, 10% અને 20% નો વધારો થાય
	(A) 3:3:10	(B) 10:11:20
	(C) 23:33:60	(D) નિર્ધારિત કરી શકાતું નથી

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	(C) 23:33:60	(D) Cannot be determined		
	(A) 3:3:10	(B) 10:11:20		
059.		ratio 2:3:5. If the increments of 15%, 10% and 20% are allowed en what will be new ratio of their salaries?		
	(C) Rs. 550	(D) Rs. 664		
	(A) Rs. 460	(B) Rs. 484		
058.	A and B together have Rs. 1210 amount does B have?	. If (4/15) of A's amount is equal to (2/5) of B's amount, how much		
	(C) 10 cm	(D) 14 cm		
	(A) 4 cm	(B) 6 cm		
057.	The perimeter of the rectangle i be:	s 20 cm. If the length of the rectangle is 6 cm, then its breadth will		
057	(C) 7	(D) 8		
	(A) 5	(B) 6		
056.	How many corners are there in	How many corners are there in the following shape?		
0.5.5	(C) Tuesday	(D) Thursday		
	(A) Wednesday	(B) Saturday		
055.	Today is Monday. After 61 days			
	(C) 2.75 times	(D) 3 times		
	(A) 2 times	(B) 2.5 times		
054.	6	than his son Ronit. After 8 years, he would be two and a half times ears, how many times would he be of Ronit's age?		
	(C) 10 years	(D) None of these		
	(A) 4 years	(B) 8 years		
053.	The sum of ages of 5 children bo youngest child?	rn at the intervals of 3 years each is 50 years. What is the age of the		
	(C) 12	(D) 13		
	(A) 7	(B) 10		
052.	Look at this series: 7, 10, 8, 11,	9, 12, What number should come next?		
	(C) tractor	(D) crop		
	(A) autumn	(B) stockpile		
	harvest			
051.	The question has an underlined that is a necessary part of the u	word followed by four answer choices. You will choose the word nderlined word.		

060.	એવી સૌથી મોટી સંખ્યા શોધો જે 43, 91 અને 🛙	183 ને વિભાજિત કરશે જેથી દરેક કિસ્સામાં સમાન બાકી રહે ?	
	(A) 4	(B) 7	
	(C) 9	(D) 13	
061.	બે વિદ્યાર્થીઓએ પરીક્ષા આપી હતી તેમાંથી એકે બીજા કરતા 9 ગુણ વધુ મેળવ્યા હતા અને તેના ગુણ તેઓના ગુણના સરવાળાના 56% હતા. તેમના દ્વારા મેળવેલ ગુણ આ પ્રમાણે છે.		
	(A) 39 , 30	(B) 41, 32	
	(C) 42, 33	(D) 43, 34	
062.	નાણાની રકમ સાદા વ્યાજે 3 વર્ષમાં રૂા. 815 અને 4 વર્ષમાં 854 થાય છે. મુદ્દલ રકમ કેટલી હશે ?		
	(A) રૂા. 650	(B) રૂા. 690	
	(C) રૂા. 698	(D) ุ เ. 700	
063.	A, B અને C અનુક્રમે 20, 30 અને 60 દિવસગ આવે તો A કેટલા દિવસમાં કામ કરી શકે ?	માં એક કાર્ય કરી શકે છે. દર ત્રીજા દિવસે B અને C દ્વારા મદદ કરવામાં	
	(A) 12 દિવસ	(B) 15 દિવસ	
	(C) 16 દિવસ	(D) 18 દિવસ	
064.	એક વ્યક્તિ 5 મિનિટમાં 600 મીટર લાંબી શેરી	પાર કરે છે. પ્રતિ કલાકમાં તેની ઝડપ કેટલી કિ.મી. હશે ?	
	(A) 3.6	(B) 7.2	
	(C) 8.4	(D) 10	
065.	60 કિમી/કલાકની ઝડપે દોડતી ટ્રેન 9 સેકન્ડમાં	પોલ પાર કરે છે. ટ્રેનની લંબાઈ કેટલી હશે ?	
	(A) 120 મીટર	(B) 180 મીટર	
	(C) 324 મીટર	(D) 150 મીટર	
066.	એક જમીનમાં 5 સેમી વરસાદ પડે છે. 1.5 હેક્ટ	ટર જમીન પર કેટલું પાણી પડેલ હશે ?	
	(A) 75 cu. m	(B) 750 cu. m	
	(C) 7500 cu. m	(D) 75000 cu. m	
067.	રાઈટ એન્ગલ ટ્રાઇએન્ગલ A right-angled 1 લંબાઈ શોધો.	triable જેની બાજુઓની લંબાઈ 21 સેમી, 20 સેમી છે, ત્રીજી બાજુની	
	(A) 19	(B) 23	
	(C) 29	(D) 33	
068.	મૂલ્યાંકન કરો : 2 + 4 ÷ (22 + 6) × 2. —		
	(A) 16/7	(B) 21/8	
	(C) 19/9	(D) 23/11	
069.	બિગ ડેટા વિશ્લેષણ, નીચેના સિવાય શું કરે છે ક		
	(A) ડેટા એકત્રિત કરે છે.	(B) ડેટા ફેલાવે છે.	
	(C) ડેટા ગોઠવે છે.	(D) ડેટાનું વિશ્લેષણ કરે છે.	
070.	આ શ્રેણીમાં 3, 4, 7, 8, 11, 12, … આગળ કયો નંબર આવવો જોઈએ ?		
	(A) 7	(B) 10	
	(C) 14	(D) 15	

060.	Find the greatest number that will dived 4 case.	3, 91 and 183 so as to leave the same remainder in each		
	(A) 4	(B) 7		
	(C) 9	(D) 13		
061.	Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:			
	(A) 39 , 30	(B) 41, 32		
	(C) 42, 33	(D) 43, 34		
062.	A sum of money, at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The principal amount is:			
	(A) Rs. 650	(B) Rs. 690		
	(C) Rs. 698	(D) Rs. 700		
063.	A, B and C can do a piece of work in 20, 3 the work if he is assisted by B and C on ev	0 and 60 days respectively. In how many days can A do very third day?		
	(A) 12 days	(B) 15 days		
	(C) 16 days	(D) 18 days		
064.	A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?			
	(A) 3.6	(B) 7.2		
	(C) 8.4	(D) 10		
065.	A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?			
	(A) 120 meters	(B) 180 meters		
	(C) 324 meters	(D) 150 meters		
066.	5 cm of rain falls in a ground, The volume of water that falls on 1.5 hectares of ground is:			
	(A) 75 cu. m	(B) 750 cu. m		
	(C) 7500 cu. m	(D) 75000 cu. m		
067.	A right-angled triangle whose sides are of length 21 cm, 20 cm, find the length of third side:			
	(A) 19	(B) 23		
	(C) 29	(D) 33		
068.	Evaluate:= $2 + 4 \div (22 + 6) \times 2$.			
	(A) 16/7	(B) 21/8		
	(C) 19/9	(D) 23/11		
069.	Big data analysis does the following, except			
	(A) Collects data	(B) Spreads data		
	(C) Organizes data	(D) Analyses data		
070.	Look at this series: 3, 4, 7, 8, 11, 12, W	Look at this series: 3, 4, 7, 8, 11, 12, What number should come next?		
	(A) 7	(B) 10		
	(C) 14	(D) 15		

071.	એક સચોટ ઘડિયાળ સવારના 8 વાગ્યા દર્શાવે છે. જ્યારે ઘડિયાળ બપોરે 2 વાગ્યા દર્શાવશે ત્યારે કલાકનો હાથ (the hour hand) કેટલા અંશ ફરશે ?		
	(A) 144°	(B) 150°	
	(C) 168°	(D) 180°	
072.	જો સંખ્યાના ચોથા ભાગનો એક તૃતીયાંશ 15 હો	ય તો તે સંખ્યાનો ત્રણ-દસમો ભાગ કેટલો હશે ?	
	(A) 35	(B) 36	
	(C) 45	(D) 54	
073.	60 લિટર મિશ્રણમાં દૂધ અને પાણીનો ગુણોત્તર ઉમેરવાનો છે ?	2 : 1 છે. જો આ ગુણોત્તર 1 : 2 હોય, તો પાણીનો કેટલો જથ્થો વધુ	
	(A) 20 લિટર	(B) 30 લિટર	
	(C) 40 લિટર	(D) 60 લિટર	
074.	એક વ્યક્તિ પાસે એક રૂપિયાની નોટ, પાંચ રૂપિય નોટોની સંખ્યા સમાન છે. તેની પાસે કુલ કેટલી ન		
	(A) 45	(B) 60	
	(C) 75	(D) 90	
075.	2, 3, 5, 6, 7 અને 9 અંકોમાંથી કેટલી 3 અંગની પુનરાવર્તન થતું નથી ?	ો સંખ્યાઓ બની શકે છે, જે 5 વડે ભાગી શકાય છે અને કોઈ પણ અંકનું	
	(A) 5	(B) 10	
	(C) 15	(D) 20	
076.	નીચેનામાંથી કોના સૌથી વધુ વિભાજકો (diviso	ors) છે ?	
	(A) 99	(B) 101	
	(C) 176	(D) 182	
077.	સ્ટેશનના પ્લેટફોર્મ પરથી ટ્રેન 36 સેકન્ડમાં પસાર થાય છે અને પ્લેટફોર્મ પર ઊભેલો માણસ 20 સેકન્ડમાં. જો ટ્રેનની ઝડપ 54 કિમી/કલાક હોય, તો પ્લેટફોર્મની લંબાઈ કેટલી છે ?		
	(A) 120 મી	(B) 240 મી	
	(C) 300 મી	(D) 360 મી	
078.	66 ઘન સેન્ટીમીટર ચાંદીનો ઉપયોગ 1 મીમી વ્યાસનો વાયર બનાવવા માટે થાય છે. તો મીટરમાં વાયરની લંબાઈ કેટલી હશે ?		
	(A) 84	(B) 90	
	(C) 168	(D) 336	
079.	બિગ ડેટાના ચાર V શું છે ?		
	(A) વોલ્યુમ (Volume)	(B) વેગ (Velocity)	
	(C) વિવિધતા (Variety)	(D) ઉપરોક્ત તમામ (All the above)	
080.	મૂલ્યાંકન કરો : {15 × 32 ÷ 2 × 5} ÷ 75		
	(A) 12	(B) 14	
	(C) 15	(D) 16	

071.	An accurate clock shows 8 o'clock in the rotate when the clock shows 2 o'clock in	morning. Through how many degree will the hour hand the afternoon?
	(A) 144°	(B) 150°
	(C) 168°	(D) 180°
072.	If one-thired of one-fourth of a number is	15, then three-tenth of that number is:
	(A) 35	(B) 36
	(C) 45	(D) 54
073.	In a mixture 60 liters, the ratio of milk an water to be further added is:	d water 2:1, If this ratio is to be 1:2, then the quantity of
	(A) 20 litres	(B) 30 litres
	(C) 40 litres	(D) 60 litres
074.		of one-rupee notes, five-rupee notes and ten-rupee notes. on is equal. What is the number of notes that he has?
	(A) 45	(B) 60
	(C) 75	(D) 90
075.	How many 3-digit numbers can he formed 5 and none of the digits is repeated?	I from the digits 2, 3, 5, 6, 7 and 9, which are divisible by
	(A) 5	(B) 10
	(C) 15	(D) 20
076.	Which of the following has the most num	ber of divisors?
	(A) 99	(B) 101
	(C) 176	(D) 182
077.	7. A train passes a station platform in 36 seconds and a man standing on the platform in 20 secon If the speed of the train is 54 km/hr, what is the length of the platform?	
	(A) 120 m	(B) 240 m
	(C) 300 m	(D) 360 m
078.	66 cubic centimetres of silver is drawn i metres will be:	nto a wire 1 mm in diameter. The length of the wire in
	(A) 84	(B) 90
	(C) 168	(D) 336
079.	What are the four V's of Big Data?	
	(A) Volume	(B) Velocity
	(C) Variety	(D) All the above
080.	Evaluate: {15 × 32 ÷ 2 × 5} ÷ 75	
	(A) 12	(B) 14
	(C) 15	(D) 16
BJF	- MASTER]	17 P.T.O.

081.	બધી જોડણી સાચી હોય તેવો વિકલ્પ પસંદ કરો		
	1. શૈથિલ્ય, શિથિલતા, મંદતા, ઢીલાશ		
	2. સંપ્રતીત, સંપ્રતિ, સંપ્રીતિ, સંપૃક્ત		
	3. હરીદ્વાર, હરિશ્વર, હરીફ, હરિહર		
	4. વેચાવ, વૈતાલીક, વૈખાનશ, વૈતાળીય		
	(A) ફક્ત 1 સાચું છે.	(B) ફક્ત 2 સાચું છે	
	(C) ફક્ત 1 અને 2 સાચા છે.	(D) ફક્ત 2 અને 3 ર	સાચા છે.
082.	નીચે આપેલાં જૂથ ધ્યાને લઈ સમાનાર્થી શબ્દો	વિશે યોગ્ય વિકલ્પ પસંદ કરો.	
	1. પ્રાવૃષ, ચોમાસું, પ્રાતુસકાળ, વર્ષાઋતુ		
	2. પ્રાવૃષ, સવાર, પ્રાતુસકાળ, પરોઢ		
	3. પ્રાઘુણ, પરોણો, મહેમાન, અતિથિ		
	4. ભૂર, ખૂબ, પુષ્કળ, ફૂરિ		
	(A) ફક્ત 1 અને 2 યોગ્ય છે.	(B) ફક્ત 3 અને 4 ર	યોગ્ય છે.
	(C) ફક્ત 1, 3 અને 4 યોગ્ય છે.	(D) 1, 2, 3 अने 4	યોગ્ય છે.
083.	નીચે આપેલાં જૂથ ધ્યાને લઈ વિરૂદ્ધાર્થી શબ્દો	વેશે યોગ્ય વિકલ્પ પસંદ કરો.	
	1. નિજાનંદ × પરમાનંદ 2. સંપન્ન × વિપ	ન્ન 3. વિબુદ્ધ × સુષુપ્ત	4. વિભાજક × સંયોજક
	(A) ફક્ત 4 યોગ્ય છે.	(B) ફક્ત 1 અને 2 ર	યોગ્ય છે.
	(C) 2, 3 અને 4 બધા જ યોગ્ય છે.	(D) ફક્ત 3 અને 4 ર	યોગ્ય છે.
084.	નીચે આપેલા રૂઢિપ્રયોગ અને તેના અર્થ માટે ય	ોગ્ય વિકલ્પ પસંદ કરો.	
	રૂઢિપ્રયોગ	અર્થ	
	1. પાઘડી નીચી કરવી 🛛 🗕	કાલાવાલા કરવા	
	2. પાઘડી મૂકીને આવવું –	છેતરાઈને આવવું	
	3. અવળી પાઘડી મૂકવી –	બેશરમ થવું	
	4. પાઘડીનો ધશી 🛛 🗕 🗕	વહેવાર કે વેપારમાં માનવંતો	l
	(A) ફક્ત 1, 2 અને 4 યોગ્ય છે.	(B) ફક્ત 2 અને 3 ર	યોગ્ય છે.
	(C) ફક્ત 2, 3 અને 4 યોગ્ય છે.	(D) 1, 2, 3 अने 4	બધા જ યોગ્ય છે.

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

- 1. વસુ વિના નર પશુ
- 2. નાણા વિનાનો નાથિયો, નાણે નાથાલાલ
- 3. જર ગયો ને જેબ ગયો
- 4. જર, જમીન અને જોરુ, ત્રણેય કજિયાના છોરું
- (A) 3 અને 4 સમાનાર્થી કહેવતો છે, 1 અને 4 વરૂદ્ધાર્થી કહેવતો છે.
- (B) 1 અને 2 સમાનાર્થી કહેવતો છે, 2 અને 4 વરૂદ્ધાર્થી કહેવતો છે.
- (C) 1 અને 4 સમાનાર્થી કહેવતો છે, 2 અને 3 વરૂદ્ધાર્થી કહેવતો છે.
- (D) 1 અને 3 સમાનાર્થી કહેવતો છે, 1 અને 2 વરૂદ્ધાર્થી કહેવતો છે.
- 086. નીચે આપેલા સામાસિક શબ્દ અને તેના પ્રકાર વિશે યોગ્ય વિકલ્પ પસંદ કરો.

			10
	(C) 1, 2, 3 અને 4 બધા જ સાચા છે	•	(D) 1, 2, 3 અને 4 બધા જ ખોટા છે.
	(A) ફક્ત 1 અને 4 સાચા છે.		(B) ફક્ત 2 અને 3 સાચા છે.
	4. ચિંતા + તુર = ચિંતાતુર		
	3. પરોપ + કાર = પરોપકાર		
	2. ભાષ + આંતર = ભાષાંતર		
	1. અનુ + ઉત્તર = અનુતર		
087.	નીચે આપેલી સંધિ વિશે યોગ્ય વિકલ્પ	ા પસંદ કરો	
	(C) ફક્ત 3 અને 4 યોગ્ય છે.		(D) 1, 2, 3 અને 4 બધા જ યોગ્ય છે.
	(A) ફક્ત 1 અને 3 યોગ્ય છે.		(B) ફક્ત 2 અને 3 યોગ્ય છે.
	4. ઘરભંગ	-	ઉપપદ સમાસ
	3. વ્યોમસર	-	કર્મધારય સમાસ
	2. ગણેશવંદના	_	દંદ સમાસ
	1. વંશવારસ	_	તત્પુરૂષ સમાસ
	સામાસિક શબ્દ		પ્રકાર

088. નીચે આપેલી કાવ્ય-પંક્તિને ધ્યાને લઈ એના છંદના પ્રકારનો યોગ્ય વિકલ્પ પસંદ કરો.

- 1. 'ભવતુ ! ભવતુ ! દેવી ! વિશ્વ છોને વિસારે, પણ સુરગણ તારી નિત્ય કીર્તિ ઉચારે.'
- 2. 'પ્રમુદિત થઈને સુણી રહે એ અનુભવતો કંઈ એ ભાવ નવીન.'
- 'ભજો ભવતારણ શ્રી ભગવાન, તજો નિજ અંતરનું અભિમાન.'
- 4. 'કૃતાર્થ નેણે નિરખી રહી વદે, સહીશ શી રીત વિયોગ દેવિ હું.'
- (A) 1. માલિની, 2. પુષ્પિતાગ્રા, 3. મોતીદામ, 4. વંશસ્થ
- (B) 1. માલિની, 2. પુષ્પિતાગ્રા, 3. વંશસ્થ, 4. મોતીદામ
- (C) 1. માલિની, 2. મોતીદામ, 3. પુષ્પિતાગ્રા, 4. વંશસ્થ
- (D) 1. માલિની, 2. વંશસ્થ, 3. મોતીદામ, 4. પુષ્પિતાગ્રા
- 089. નીચે આપેલી કાવ્ય-પંક્તિને ધ્યાને લઈ એના અલંકારના પ્રકાર માટે યોગ્ય વિકલ્પ પસંદ કરો.
 - 1. એનાં ચકળવકળ થતાં નેણ રખે માછલીઓ હલમલતી.
 - 2. ધૃતિ જે તને જીવાડતી, ધૃતિ તે તને સંહારતી, જે પોષતું તે મારતું એ ક્રમ દીસે છે કુદરતી.
 - 3. માછલીની ઘોડે તે સાગરમાં સેલ્લારા મારે છે.
 - 4. કામિની-કોકિલા કેલી કૂજન કરે.
 - (A) 1. સજીવારોપણ, 2. શ્લેષ, 3. સ્વભાવોક્તિ, 4. વર્ણાનુપ્રાસ
 - (B) 1. ઉત્પ્રેક્ષા, 2. શ્લેષ, 3. દેષ્ટાંત, 4. રૂપક
 - (C) 1. સજીવારોપણ, 2. યમક, 3. ઉપમા, 4. વર્ણાનુપ્રાસ
 - (D) 1. ઉત્પ્રેક્ષા, 2. અર્થાન્તરન્યાસ, 3. ઉપમા, 4. રૂપક
- 090. નીચેની વિગતોને ધ્યાને લઈ યોગ્ય વિકલ્પ પસંદ કરો.
 - 1. સુ + ઉક્તિ = સુક્તિ
 - 2. 'સાંભળી શિયાળ બોલ્યુ દાખે દલપતરામ, અન્યનું તો એક વાંકું આપનાં અઢાર છે.' મનહર
 - 3. વરાળયંત્ર તત્પુરૂષ સમાસ
 - 4. વડ એવા ટેટા, બાપ એવા બેટા. દેષ્ટાંત અલંકાર
 - (A) ફક્ત 1 અને 2 સાચા છે. (B) ફક્ત 1, 2 અને 3 સાચા છે.
 - (C) ફક્ત 2 અને 4 સાચા છે. (D) ફક્ત 4 સાચું છે.

091.	The food was distributed to	en students.
	(A) Between	(B) among
	(C) through	(D) within
092.	The major along with his soldiers w	ere killed in the field. (Spot the error)
	(A) The major	(B) along with
	(C) his soldiers	(D) were killed in the field
	(E) No error	
093.	A book is a book, although there is n above sentence?	othing in it. Which of the following is the 'conjunction' in the
	(A) Book	(B) is
	(C) although	(D) nothing
094.	He not take such a step.	
	(A) fare	(B) dares
	(C) dare	(D) eares
095.	Rama ordered Arjun to go away. (T	urn into direct speech)
	(A) Rama ordered Arjun, go away.	(B) Rama said, "Arjun go away."
	(C) Rama said to Arjun, "Go away.	" (D) Rama ordered to Arjun to go away.
096.	horse is a noble animal.	
	(A) A	(B)An
	(C)The	(D) Zero Article
097.	Identify the adjective in the followin	g sentence:
	"Calcutta is a large city."	
	(A) Culcutta	(B) large
	(C) city	(D) is
098.	when have you been playin	g?
	(A) For	(B) From
	(C) Since	(D) Till
099.	He took away my books, yet I have	been left with
	(A) few	(B) little
	(C) a few	(D) a little
100.	I don't have money left.	
	(A) many	(B) little
	(C) few	(D) any

101.	. Who is authorized to enter into an agreement with any person for assistance in fire fighting u the Gujarat Fire Prevention and Life Safety Measures Act, 2013, section 16?		
	(A) Superintendent of police	(B) Chief Fire Officer	
	(C) Private citizens	(D) Director General of Police	
102.	Who is responsible for appointing a fire safety officer as per Section 12 of the Gujarat Fire Prevention and Life Safety Measures Act, 2013?		
	(A) The Regional Fire Officer	(B) The Labour Commissioner	
	(C) The factory owner and occupier	(D) The Chief Fire Officer	
103.	To whom should the compliance report for the appointment of a fire safety officer be sent under Section 12 of the Gujarat Fire Prevention and Life Safety Measures Act, 2013?		
	(A) Labour Commissioner		
	(B) State Government		
	(C) Regional Fire Officer or Chief Fire Office	r	
	(D) Director of Fire Services		
104.	The training centres established under Section Measures Act, 2013 provide instruction to per	n 17 of the Gujarat Fire Prevention and Life Safety rsonnel from which types of services?	
	(A) Only Government fire services		
	(B) Both Fire Services and private services of i by the State Government	ndustries, hotels, and other establishments specified	
	(C) Only private industrial fire services		
	(D) Only local body fire services		
105.	· ·	and procedure for providing fire prevention and Gujarat Fire Prevention and Life Safety Measures	
	(A) Municipal Corporation	(B) State Government	
	(C) Local fire services	(D) Fire Safety Officer	
106.	Under which condition can an officer inspect a in Section 24 of Gujarat Fire Prevention and	place without giving prior notice, as per the proviso Life Safety Measures Act, 2013?	
	(A) If an industry is working or a function is	going on	
	(B) If the building is empty		
	(C) If the building has been abandoned		
	(D) Only after obtaining a court order		
107.	What is the notice period required by the authorities before entering and inspecting a building under normal circumstances, according to Section 24 of Gujarat Fire Prevention and Life Safety Measures Act, 2013?		
	(A) 3 hours	(B) 6 hours	
	(C) 24 hours	(D) No notice required	
108.	Who has the authority to grant a license to a I and Life Safety Measures Act, 2013?	icensed Agency under the Gujarat Fire Prevention	
	(A) Municipal Commissioner	(B) Chief Fire Officer	
	(C) Director	(D) Regional Fire Officer	

109.	For how long is a license granted to a Licensed Agency valid, as per Section 28 of the Gujarat Fin Prevention and Life Safety Measures Act, 2013?		
	(A) One year	(B) Indefinitely	
	(C) Five years	(D) Two years	
110.	What is the maximum imprisonment term for Section 44 of the Act?	or knowingly giving a false report of a fire, as per	
	(A) Five years with fine upto Rs. 1000/- or both		
	(B) Six months with fine upto Rs. 1000/- or both		
	(C) One year with fine upto Rs. 1000/- or both		
	(D) Three months with fine upto Rs. 1000/- o	or both	
111.	Gujarat Fire Prevention and Life Safety Meas Fire Services is restricted to:	ures Act, 2013, jurisdiction of the Director in Gujarat	
	(A) District	(B) State	
	(C) Local Municipal Corporation	(D) Fire region	
112.	Gujarat Fire Prevention and Life Safety Mea Gujarat Fire Service is done by:	asures Act, 2013, the appointment of the Director in	
	(A) State Government	(B) Central Government	
	(C) Directorate of Fire Prevention Services	(D) Commissioner of Municipal Corporation	
113.	Which aspect is covered under Section 18 of the Gujarat Fire Prevention and Life Safety Measures Act, 2013 covers:		
	(A) Suspension, termination, and punishment		
	(B) Requirement for fire prevention and life	safety measures	
	(C) Power to arrange the supply of water		
	(D) Powers, duties, and functions of Fire Off	icers	
114.	Which aspect is covered under Chapter IV of t Act, 2013 covers:	he Gujarat Fire Prevention and Life Safety Measures	
	(A) Training to Fire Personnel and Fire Safety Officers		
	(B) Requisition and Compensation for Fire Equipment		
	(C) Provisions for Temporary Structures		
	(D) Offences and Penalties		
115.	The Gujarat Fire Prevention and Life Safet permission for the use of temporary structur		
	i. Chief Fire Officer ii. Regional Fire Off	icer iii. Any Nominated Officer	
	Select the correct option using the code below	w:	
	(A) i only	(B) i and ii only	
	(C) i, ii and iii	(D) ii and iii only	

116.	Which aspect is covered under Se Act, 2013?	ction 12 of the Gujarat Fire Prevention and Life Safety Measures		
	(A) Appointment of Fire Safety Officer			
	(B) Appointment of Fire Officer			
	(C) Constitution of Fire Region			
	(D) Training for Fire Personnel a	(D) Training for Fire Personnel and Fire Safety Officers		
117.	The appointment of Divisional Fire Officer and Station Fire Officer is regulated by which section of the Gujarat Fire Prevention and Life Safety Measures Act, 2013?			
	(A) Section 9	(B) Section 10		
	(C) Section 11	(D) Section 13		
118.	Chapter VII of the Gujarat Fire of the following?	Prevention and Life Safety Measures Act, 2013 addresses which		
	(A) Requisition and Compensation	on for Fire Equipment		
	(B) Provisions for Temporary Structures			
	(C) Licensed Agency			
	(D) Offences and Penalties			
119.	According to Gujarat Fire Prevention and Life Safety Measures Act, 2013, for how many years the fire safety certificate issued to the owner of a residential building is valid?			
	(A) 3 years	(B) 5 years		
	(C) 7 years	(D) 10 years		
120.	According to Gujarat Fire Prevention and Life Safety Measures Act, 2013, for how many years the fire safety certificate issued to the owner of a non-residential building is valid?			
	(A) 7 years	(B) 5 years		
	(C) 3 years	(D) 10 years		
121.	Which of the following qualifications is NOT eligible for the grant of a license to issue certificates regarding compliance with fire prevention and life safety measures?			
	(A) Degree in Fire Engineering from National Fire Service College			
	(B) Diploma in Fire Engineering from National Fire Service College			
	(C) Degree or Diploma in Mechanical Engineering			
	(D) Degree or Diploma in Computer Engineering			
122.	The license to act as a Licensed Agency in the state of Gujarat is			
	i. Non-transferable			
	ii. Valid for three years from the date of issue			
	iii. Can be renewed			
	Select the correct option using the code below:			
	(A) i only	(B) ii and iii only		
	(C) iii only	(D) i, ii and iii		

- 123. Which of the following is NOT a duty of the fire safety officer under fire prevention and safety protocols?
 - (A) Inspecting fire alarm systems in residential areas every month.
 - (B) Issuing a fire safety certificate renewal upon compliance with all mandatory requirements.
 - (C) Giving a bi-annual declaration that fire prevention, life safety, and fire protection measures are operational and in efficient working condition.
 - (D) Conducting bi-annual emergency mock drills and providing basic fire safety information to occupants and staff.
- 124. According to Gujarat Fire Prevention and Life Safety Measures Act, 2013, the fire safety certificate is issued to the owner in which form?
 - (A) Form B13 (B) Form B12
 - (C) Form B15 (D) Form B14

125. The badge for an officer holding the rank of Chief Fire Officer consists of _____.

- (A) Ashok emblem + Shoulder titles "GSFS"
- (B) Ashok emblem with one small impeller (3/4" diameter) + Shoulder titles "GSFS"
- (C) Ashok emblem with three small impellers (3/4" diameter) + Shoulder titles "GSFS"
- (D) Crossed swords and baton with one small impeller (3/4" diameter) + Shoulder titles "GSFS"
- 126. Which of the following types of buildings is NOT assigned to an officer holding the rank of Divisional Officer in Gujarat?
 - (A) Hotels with 100 rooms and above
 - (B) Multi-storey non-residential buildings exceeding 50 meters in height
 - (C) Hospitals and nursing homes with more than 500 beds
 - (D) District centres, including the basement, with a built-up area of more than 25,000 square meters
- 127. According definition given in Gujarat Fire Prevention and Life Safety Measures Regulations, 2023, what is the meaning of "exit" according to the definition provided?
 - (A) A channel leading to a street or open space of safety
 - (B) A passage leading to another room
 - (C) A passage within a building to another floor
 - (D) A door between two rooms
- 128. What is the minimum fire resistance rating required for a boiler room as per Section 15.24.1 of Gujarat Fire Prevention and Life Safety Measures Regulations, 2023?
 - (A) 1 hour (B) 2 hours
 - (C) 3 hours (D) 4 hours
- 129. What is the purpose of the blowers in the lift-well as per Section 15.26.2 of Gujarat Fire Prevention and Life Safety Measures Regulations, 2023?
 - (A) To cool the lift
 - (B) To provide ventilation for the lift passengers
 - (C) To increase the speed of the lift
 - **(D)** To prevent the lift-well from getting smoke logged

100		
130.	According to Section 15.28.2 of Gujarat Fire 2023, the staircase of a basement should have	e Prevention and Life Safety Measures Regulations, e a fire resistance of at least:
	(A) 1 hour	(B) 3 hours
	(C) 2 hours	(D) 4 hours
131.	What is the primary objective of Part IV of t	the National Building Code of India 2016?
	(A) To provide guidelines for fire and life saf	ety
	(B) To ensure structural stability	
	(C) To regulate building aesthetics	
	(D) To specify the types of building materials	\$
132.	According to NBC 2016, Part IV, which of protection for buildings?	the following is considered a critical factor in fire
	(A) Fire-resistant of construction materials	(B) Building height
	(C) Building colour	(D) Building location
133.	What is the required fire resistance rating fo per NBC 2016, Part IV?	r the inspection panel and doors of refuse chutes as
	(A) 30 minutes	(B) 60 minutes
	(C) 90 minutes	(D) 120 minutes
134.	How far must refuse chutes be located from	exits as specified in NBC 2016, Part IV?
	(A) At least 4 meters	(B) At least 3 meters
	(C) At least 6 meters	(D) At least 5 meters
135.	For buildings erected in Fire Zone No. 3, when NBC 2016, Part-IV, Section 3.2.6?	nich types of construction are allowed according to
	(A) Type 1 only	(B) Type 1 or 2
	(C) Type 2 only	(D) Type 3 or 4
136.	What is the required fire resistance rating for s as per NBC 2016, Part-IV, Section 3.1.11?	eparating occupancies in a mixed occupancy building
	(A) 120 minutes	(B) 240 minutes
	(C) 180 minutes	(D) 300 minutes
137.	What is the maximum length of a dead-end of and assembly occupancies according to NBC	corridor in exit access for educational, institutional, 2016, Part-IV, Section 4.4.2.2?
	(A) 3 meters	(B) 15 meters
	(C) 10 meters	(D) 6 meters
138.	How should exits be arranged in a building a	according to NBC 2016, Part-IV, Section 4.4.2.2?
	(A) Close to each other for ease of access	
	(B) In a centralized location for convenience	
	(C) As remote from each other as possible directions from any point in the area ser	and arranged to provide direct access in separate ved
	(D) In a manner that minimizes travel distan	ce only
139.	According to NBC 2016, Part-IV, what is the	e maximum allowable slope for a ramp?
	(A) 1 in 10 (10%)	(B) 1 in 8 (12.5%)
	(C) 1 in 15 (6.7%)	(D) 1 in 12 (8%)

140.	What method is used to protect exits from the ingress of smoke in high-rise buildings as per NBC 2016, Part-IV?		
	(A) Natural ventilation	(B) Pressurization of staircases and lobbies	
	(C) Smoke detectors	(D) Automatic sprinklers	
141.	In which Fire Zones are temporary buildings Part-IV?	or structures permitted according to NBC 2016,	
	(A) Fire Zones No. 2 and 3	(B) Fire Zones No. 3 and 4	
	(C) Fire Zones No. 1 and 2	(D) Fire Zones No. 2 and 4	
142.	What is required to be done with temporary buildings or structures after the permit period expires according to NBC 2016, Part-IV?		
	(A) They must be completely removed	(B) They must be transferred to a new location	
	(C) They must be renovated	(D) They may remain as long as they are inspected	
143.	What is the primary focus of codes and standar	ds for passive fire protection systems and materials?	
	(A) Enhancing the building's aesthetics		
	(B) Ensuring structural integrity and fire resi	stance	
	(C) Reducing construction costs		
	(D) Improving energy efficiency		
144.	According to the Gujarat Comprehensive Development Control Regulations - 2017, how is the height of a building measured?		
	(A) From the established ground level to the t	op of the building	
	(B) From the ground floor to the top of the staircase cabin		
	(C) From the highest point of the roof to the le	owest floor	
	(D) From the basement to the top of the lift w	ell	
145.	According to the Gujarat Comprehensive Demaximum allowable height for a basement?	velopment Control Regulations - 2017, what is the	
	(A) 3.0 meters	(B) 2.8 meters	
	(C) 3.8 meters	(D) 3.5 meters	
146. Which of the following is a permitted use in the basement of a hospital buildin Comprehensive Development Control Regulations - 2017?			
	(A) Office space	(B) Radiation Therapy Room	
	(C) Staff lounge	(D) Medicine shop	
147.	47. According to the Gujarat Comprehensive Development Control Regulations - 2017 for over 25 meters high, when should emergency escape lighting turn on after a failure of t lighting supply?		
	(A) Within 1 second	(B) Within 30 seconds	
	(C) Within 10 seconds	(D) Within 5 minutes	
148.	What is the primary purpose of a Self-Contai	ned Breathing Apparatus (SCBA)?	
	(A) To provide fire resistance to clothing		
	(B) To enhance vision in smoke-filled areas		
(C) To offer clean air to fire fighters in hazardous environments		lous environments	

(D) To cool down the fire fighter's body

- 149. What is the purpose of guardrails on scaffolding?
 - (A) To protect workers from falling off the edge
 - (B) To prevent materials from falling off the scaffold
 - (C) To provide a platform for workers to stand on
 - (D) To enhance the aesthetic appearance of the scaffold
- 150. What is the primary purpose of wearing a fire-resistant suit in fire fighting?
 - (A) To improve mobility
 - (B) To protect against electrical hazards
 - (C) To enhance visibility
 - (D) To provide insulation from extreme temperatures
- 151. What is the concept of "friction loss" in a piping system?
 - (A) The loss of pressure due to the resistance of water flowing through pipes and fittings
 - (B) The loss of water volume due to evaporation
 - (C) The reduction in pressure due to changes in pipe diameter
 - (D) The increase in pressure due to the addition of new water sources
- 152. Which of the following statements is NOT correct regarding friction loss in a fire hose?
 - i. Friction loss does not depend on the quality of the hose
 - ii. Friction loss varies directly with the length of the hose
 - iii. Friction loss varies with the square of the velocity

Select the correct option using the code below:

- (A) i and ii only (B) i only
- (C) ii and iii only (D) i, ii and iii
- 153. Water flows through a pipe with a diameter of 14 cm at a velocity of 0.75 m/s. What is the mass flow rate of water in the pipe?

(A) 696 kg/min	(B) 475 kg/min
(C) 325 kg/min	(D) 848 kg/min

154. Which of the following is NOT considered a minor energy loss in a piping system?

- (A) Friction loss (B) Pipe fittings
 - (C) Bend in pipe (D) Sudden expansion of pipe diameter
- 155. The atmospheric pressure is equivalent to a water column height of approximately:
 - (A) 7.5 meters (B) 10.3 meters
 - (C) 9.8 meters (D) 8.5 meters
- 156. When pipes are connected in series, the total discharge is:
 - (A) Equal to the sum of the discharges in each pipe
 - (B) Equal to the reciprocal of the sum of the discharges in each pipe
 - (C) Dependent on the diameter of the pipes
 - (D) The same as the discharge through each individual pipe

157.	The ratio of the actual discharge from an orifice to the theoretical discharge from the orifice referred to as:	
	(A) Discharge capacity	(B) Coefficient of discharge
	(C) Vena contracta	(D) Discharge time
158. Which of the following formula is used to determine the K-Factor of a sprinkl discharge at the node and p is the pressure at the node?		· · · ·
	(A) $K = Q / p^{0.5}$	(B) K = Q/p
	(C) $\mathbf{K} = \mathbf{Q} \times \mathbf{p}$	$(D) K = Q/p^2$
159.	In a Venturimeter, the pressure of the liquid	at the throat is:
	(A) Lower than that at the inlet	(B) Higher than that at the inlet
	(C) The same as that at the inlet	(D) Dependent on atmospheric pressure
160. For fully developed flow in a circular pipe with negligible entrance length effects, i the pipe is doubled and the diameter is halved, assuming the mass flow rate, density factor remain constant, by what factor will the head loss due to friction increase?		l, assuming the mass flow rate, density, and friction
	(A) 4	(B) 64
	(C) 32	(D) 16
161.	As per IS 15105, what is the minimum therma response sprinklers?	al element Response Time Index (RTI) for standard
	(A) 80 (m/s) ^{0.5} or more	(B) 50 (m/s) $^{0.5}$ or more
	(C) 60 (m/s) ^{0.5} or more	(D) Less than 50 (m/s) ^{0.5}
162.	Which type of sprinkler system has open sprin to water supply through and this valve opera	klers connected to a piping network that is connected attes through a detection system?
	(A) Pre-action system	(B) Deluge system
	(C) Wet pipe system	(D) Life safety system
163. As per IS 15105, which type of sprinkler system is defined as having the highest spr than 45 meters above the lowest sprinkler or sprinkler pumps?		
	(A) Dry pipe system	(B) Life safety system
	(C) Deluge system	(D) High rise system
164.	According to the release mechanism, which when exposed to heat?	type of sprinkler operates by melting a component
	(A) Glass bulb sprinkler	(B) Spray sprinkler
	(C) Chemical pellet sprinkler	(D) Fusible element sprinkler
165.	What is the minimum water discharge densit	y required for light hazard areas as per IS 15105?
	(A) 1.50 lpm/m ²	(B) 2.25 lpm/m ²
	(C) 3.00 lpm/m ²	(D) 5.00 lpm/m ²
166.	What is one of the key environmental advanta to halon-based systems?	ges of water mist fire suppression systems compared
	(A) Increased oxygen displacement	(B) Larger water droplets
	(C) Higher system pressure	(D) Minimal water usage

167.	Water mist systems control fires by:	
	(A) Using large volumes of water	
	(B) Displacing oxygen and pre-wetting area	S
	(C) Increasing the temperature of the fire a	rea
	(D) Creating large droplets to cover more a	rea
168.	What is the primary purpose of controlling or containing water discharge from water spray systems where flammable or combustible liquids are present?	
	(A) To increase the water flow rate	(B) To reduce water usage
	(C) To prevent the spread of fire	(D) To maintain system pressure
169.	What is the primary function of portable ga	as monitors?
	(A) Detect multiple gases in large areas	
	(B) Spot-checking and personal safety for workers	
	(C) Provide continuous monitoring in industrial settings	
	(D) Detect gas leaks in pipelines	
170.	In which type of setting would you typically find fixed gas monitors?	
	(A) Outdoor recreational areas	(B) Industrial facilities for monitoring large areas
	(C) Small office spaces	(D) Personal use in homes
171.	Which of the following terms refers to the concentration range of a vapor that can ignite in the presence of a source of ignition?	
	(A) Flash point	(B) Saturated Vapor Pressure
	(C) Limiting Oxygen Concentration	(D) Flammability limits
172.	Which of the following describes a pool fire?	
	(A) A fire caused by a sudden release of gas	
	(B) A rapid combustion of gas in open air	
	(C) A turbulent diffusion fire above vaporizing hydrocarbons	
	(D) A large ball of fire from an explosion	
173.	Which of the following are necessary conditions for flash-over to occur?	
	i. Sufficient availability of fuel	
	ii. Sufficient availability of oxygen	
	iii. Ability of the compartment to trap hot g	ases
	Select the correct option using the code below:	
	(A) i and ii	(B) i, ii and iii

174. During which stage of fire behavior is the t-squared model typically applied?

- (A) Flashover (B) Post-Flashover
- (C) Pre-Flashover (D) Decay stage

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(C) ii and iii

(D) i and iii

175.	What is the main reason for the higher soot production in diffusion flames compared to premix flames?		
	(A) Higher temperatures in diffusion flames lead to more incomplete combustion.		
	(B) In diffusion flames, the fuel is fully oxidize	ed, but the by-products form soot.	
	(C) Fuel and oxidizer mixing occurs in localize soot formation.	ed regions, resulting in incomplete combustion and	
	(D) Premixed flames have less soot due to low	er fuel concentrations near the flame front.	
176.	Which flame is typically found in a candle flame?		
	(A) Diffusion flame	(B) Premixed flame	
	(C) Fireball	(D) Flash fire	
177.	Boiling primarily involves which type of heat transfer process?		
	(A) Convective	(B) Conductive	
	(C) Radiative	(D) Mechanical	
178.	When considering the heat transfer in a phase c the concept of latent heat?	hange process, which of the following best describes	
	(A) Heat required for the substance to change	e its phase without a temperature change	
	(B) Heat required to raise the temperature of a substance		
	(C) Heat lost during radiation		
	(D) Heat exchanged during forced convection		
179.	In a situation involving heat conduction through a composite wall, the overall heat transfer coefficient is determined by which of the following relationships?		
	(A) Inverse of the summation of individual thermal conductivities		
	(B) Parallel resistance model		
	(C) Direct summation of individual thermal resistances		
	(D) Series resistance model		
180.	Which of the following factors does NOT affect the overall heat transfer coefficient for a composite wall?		
	(A) Thickness of each layer	(B) Thermal conductivity of each layer	
	(C) Arrangement of layers in the wall	(D) Temperature difference across the wall	
181.	In which of the following foam-producing equipment can the material and hose be manually transported?		
	(A) Fixed system	(B) Portable system	
	(C) Mobile system	(D) Semi-fixed system	
182.	Which of the following is NOT a characteristic of a Wet Riser system?		
	(A) It is a vertical rising main		
	(B) It is used for fire fighting within the building		
	(C) It has landing valves on each floor or landing		
	(D) It requires manual operation to charge the system with water		
183.	What is the process called when a substance reacts with oxygen and produces heat and energy?		
	(A) Flammability	(B) Ignition	
	(C) Combustion	(D) Flame	

184.	What happens to the formation of carbon monoxide and soot in a hydrocarbon fire as oxygen deficiency increases?		
	(A) It decreases		
	(B) It remains the same		
	(C) It increases		
	(D) It decreases with a decrease in oxygen	deficiency	
185.	Which of the following is NOT the criterio as per National Building Code-2016?	n to determined fire resistant of an element of building	
	(A) Stability	(B) Integrity	
	(C) Insulation	(D) Fire Load	
186.	In reference to National Building Code -2 building is;	In reference to National Building Code -2016, occupant load factor (m ² /person) for residential	
	(A) 4.00	(B) 10.00	
	(C) 12.50	(D) 15.00	
187.	The tendency of coal to react with availa combustion?	able oxygen and burn is an example of what type of	
	(A) Rapid combustion	(B) Explosion	
	(C) Spontaneous combustion	(D) Flame	
188.	What is the lowest concentration of a gas or vapor that will maintain the propagation of a flame away from an ignition source?		
	(A) Flashover	(B) Lower temperature limit	
	(C) Lower flammability limit	(D) Fire	
189.	Which of the following is NOT a basic mo	e following is NOT a basic mode of heat transfer?	
	(A) Heat flow	(B) Convection	
	(C) Radiation	(D) Conduction	
190.	Which of the following units is NOT used	to measure heat produced?	
	(A) Calorie	(B) Joules	
	(C) B TU	(D) Joules per gram	
191.	How much energy, in calories, is there in 1	10 kilocalorie (kCal)?	
	(A) 10 cal	(B) 100 cal	
	(C) 1000 cal	(D) 10000 cal	
192.	Which IS code specifies the functional requirements for a water tender Type 'A' used by the fire brigade?		
	(A) IS 6067	(B) IS 950	
	(C) IS 948	(D) IS 951	
193.	According to IS 10993, what is the minimu a Dry Chemical Powder tender?	im horizontal throw distance for a monitor installed on	
	(A) 10 m	(B) 40 m	
	(C) 30 m	(D) 50 m	

194.	Which IS code outlines the functional requirements for a portable pump used in firefighting?			
	(A) IS 947	(B) IS 943		
	(C) IS 944	(D) IS 942		
195.	As per IS 10460, what is the requi	ired capacity of the fire pump installed on a small foam tender?		
	(A) 1500 lpm	(B) 1800 lpm		
	(C) 2280 lpm	(D) 2850 lpm		
196.	According to IS standards, what	is the water tank capacity of a Type-B water tender?		
	(A) 2500 liters	(B) 4500 – 7000 liters		
	(C) 2700 – 3600 liters	(D) 6000 liters		
197.	Which of the following is NOT a t	type of smoke detector?		
	i. Ionization detector			
	ii. Photoelectric detector			
	iii. Spot-type detector			
	iv. Rate-of-rise detector			
	Choose the correct option from the	ne codes below:		
	(A) i and ii	(B) iii and iv		
	(C) i and iii	(D) ii and iv		
198.	As per National Building Code -2016, the horizontal luminance at floor level on the centreline of an escape route shall not be less than;			
	(A) 3 lumen/m ²	(B) 7 lumen/m ²		
	(C) 10 lumen/m ²	(D) 15 lumen/m ²		
199.	What is the correct term for a substance that causes cancer?			
	(A) Asphyxiant	(B) Infectious		
	(C) Carcinogen	(D) Contagious		
200.	What term is used for long-term exposure by a harmful substance?			
	(A) Acute exposure	(B) Chronic exposure		
	(C) Sub-chronic exposure	(D) Super-chronic exposure		
201.	In the case of a rural or forest fire, how should the firebreak width changes with the wind speed?			
	i. Increase			
	ii. Decrease			
	iii. Remain the same for different wind speeds			
	Choose the correct option:			
	(A) Only ii	(B) Only i		
	(C) Only iii	(D) ii and iii		
202.	According to the National Fire Pro width for a firebreak in forested a	etection Association (NFPA), what is the recommended minimum areas?		
	(A) 10 feet	(B) 50 feet		
	(C) 30 feet	(D) 100 feet		

203.	The minimum fire resistance of internal staircase should be;	
	(A) 30 min	(B) 60 min
	(C) 90 min	(D) 120 min
204.		
	(A) Soil type	(B) Topography
	(C) Wildlife presence	(D) Land ownership
205.	According to the National Fire Protection prevention measure for homes located in wi	Association (NFPA), what is the most effective fire ld land-urban interface areas?
	(A) Defensible space	(B) Sprinkler systems
	(C) Fire alarms	(D) Fire extinguishers
206.	What is defined as the time required from initial intensity of the fire is reduced by 90 p	the arrival of the first fire-fighting vehicle until the percent?
	(A) Response time	(B) Extinguishment time
	(C) Control time	(D) Reaction time
207.	What does TCA stand for in the context of a	aircraft fire-fighting calculations?
	(A) Total Coverage Area	(B) Theoretical Critical Area
	(C) Total Critical Area	(D) Total Combustible Area
208.	As per IS: 8758-2013 what is the minimum rec pandal?	quirement of exit for any type of temporary structures/
	(A) Two exits of not less than 2.5 m width	(B) One exits of not less than 3 m width
	(C) Two exits of 3 m width	(D) One exits of 2.5 m width
209.	According to NFPA 418, what is the minimu outlet system?	um duration of foam discharge for a fixed discharge
	(A) 10 minutes	(B) 5 minutes
	(C) 20 minutes	(D) 15 minutes
210.	What causes a BLEVE?	
	(A) A container holding a pressure-liquefied	gas fails catastrophically
	(B) A container holding a flammable liquid o	catches fire
	(C) A gas pipeline explosion due to pressure	build-up
	(D) A pressure relief valve fails to operate	
211.	Which of the following is best defines deflag	
	(A) A rapid combustion process that exceeds	-
	(B) The propagation of a combustion zone a	
	(C) A slow combustion process with no wave	
	(D) An explosion caused by compressed gas	
212.	Which of the following is true regarding det	
	(A) It propagates at a velocity greater than	the local speed of sound
	(B) It involves a slow combustion process	
	(C) It propagates at a speed less than the sp	eed of sound
	(D) It does not involve combustion	

213.	Which of the following is an example of an endothermic process?		
	(A) Combustion of wood	(B) Melting of ice	
	(C) Freezing of water	(D) Condensation of steam	
214.	What does the equivalence ratio represent?		
	(A) The ratio of fuel to air in any mixture		
	(B) The ratio of air to fuel in a stoichiometric	mixture	
	(C) The fuel/air ratio divided by the fuel/air ratio	atio for a stoichiometric mixture	
	(D) The air/fuel ratio multiplied by the stoichi	ometric fuel/air ratio	
215.	If the equivalence ratio is less than 1, what does this indicate about the mixture?		
	(A) The mixture has excess fuel	(B) The mixture has excess air	
	(C) The mixture is perfectly balanced	(D) The combustion is incomplete	
216.	Which of the following is best describes a flas	hover event?	
	(A) The rapid ignition of all combustible mate	rials in an enclosed space	
	(B) A gradual spreading of flames throughout	a building	
	(C) The smouldering of fire without visible flames		
	(D) The slowing down of a fire due to lack of fuel		
217.	Flashover is often considered the transition b compartment?	etween which two stages of fire development in a	
	(A) Ignition and growth	(B) Growth and fully developed	
	(C) Fully developed and decay	(D) Smouldering and ignition	
218.	Why are dust explosions particularly dangero	us in industrial settings?	
	(A) They produce large amounts of toxic fumes		
	(B) They occur without requiring any ignition source		
	(C) The rapid combustion of fine particles can create shockwaves and secondary explosions		
	(D) They happen only in open spaces with low oxygen concentration		
219.	Which of the following is best describes the flammable range?		
	(A) The concentration range of gases between the lower and upper flammable limits		
	(B) The pressure range at which gas combustion is possible		
	(C) The temperature range burning gases at which fuel burns most efficiently		
	(D) The speed at which a gas ignites under pressure		
220.	Which type of discharge is generally poses a g	reater hazard in dispersion events?	
	(A) Non-pressurized liquid discharge	(B) Pressurized liquid discharge	
	(C) Solid discharge	(D) Gaseous discharge at low pressure	
221.	What causes a jet fire?		
	(A) Combustion of solid fuels		
	(B) Ignition of a flammable fluid releasing fro	m a pipe or orifice	
	(C) Ignition of flammable liquids only		
	(D) Spontaneous combustion of gases		

- 222. What is a significant characteristic of fireballs?
 - (A) They last for extended periods and are easy to extinguish
 - (B) They produce large amounts of thermal radiation that can transmit heat to surroundings
 - (C) They only occur in laboratory settings
 - (D) They do not produce any significant heat energy
- 223. The ALARP principle is primarily concerned with:
 - (A) Increasing risks to improve efficiency
 - (B) Ignoring risks in favor of production speed
 - (C) Eliminating all risks completely
 - (D) Reducing risks to a level that balances cost, time, and effort
- 224. Which of the following is NOT a characteristic of an accident?
 - (A) It includes the magnitude of the events (B) It refers to the occurrence of events only
 - (C) It produces unintended loss (D) It can involve a sequence of events
- 225. What does the term "consequence" refer to in risk management?
 - (A) The likelihood of an event occurring
 - (B) The costs associated with safety measures
 - (C) The measure of expected effects on the results of an incident
 - (D) The frequency of past accidents
- 226. Which formula is best describes risk?
 - (A) Probability of occurrence × Severity of consequences
 - (B) Probability of occurrence Severity of consequences
 - (C) Probability of occurrence + Severity of consequences
 - (D) Severity of consequences / Probability of occurrence
- 227. In risk analysis, what elements are typically estimated?
 - (A) Hazard, their probability of occurrence, and combination of both
 - (B) Only the financial impact of hazards
 - (C) Past accidents and their impact
 - **(D)** Employee performance metrics
- 228. How would increasing the burning time, while keeping the amount of fuel constant and assuming its calorific value remains unchanged, affect the average heat release rate?
 - (A) It would double the heat release rate
 - **(B)** It would reduce the heat release rate
 - (C) It would have no effect on the heat release rate
 - (D) It would increase the heat release rate
- 229. Among the fire growth rates for t-squared fires, which one exhibits the highest fire intensity coefficient?
 - (A) Slow (B) Ultrafast
 - (C) Fast (D) Medium

230.	Which technique is used to identify hazards through a qualitative review of possible accidents	
	that may occur?	· · · · · · · · · · · · · · · · · · ·
	(A) HAZMAT	(B) FMEA
	(C) HAZOP	(D) JSA
231.	. What is the term for the temperature at which a liquid fuel forms a mixture corresponding to lean flammability limit due to its vapor mixing with ambient air?	
	(A) Fire point	(B) Auto-ignition temperature
	(C) Flash point temperature	(D) Boiling point
232.	Which phase of fire development does the t-s	squared fire model specifically focus on?
	(A) Pre-flashover	(B) Post-flashover
	(C) Smoldering phase	(D) Extinguishment
233.	What does a low-resistance earth connection	ensure?
	(A) Increased voltage	(B) Enhanced insulation
	(C) Efficient current flow to ground	(D) Reduced power consumption
234.	Which of the following is a common method	of non-destructive testing?
	(A) Fire testing	(B) Tensile testing
	(C) Chemical analysis	(D) X-ray testing
235.	Which NDT method uses sound waves to det	tect internal flaws in materials?
	(A) Magnetic Particle Testing	(B) Radiographic Testing
	(C) Visual Inspection	(D) Ultrasonic Testing
236.	What is the primary function of cathodic pro	otection?
	(A) To enhance electrical conductivity	(B) To increase temperature resistance
	(C) To prevent corrosion of metal surfaces	(D) To improve magnetic properties
237.	In cathodic protection systems, what role do	sacrificial anodes play?
	(A) They enhance electrical insulation	
	(B) They corrode preferentially, protecting t	he main structure
	(C) They increase the conductivity of the sur	rounding environment
	(D) They strengthen the base material	
238.	Which of the following systems would benefi	t from both earthing and cathodic protection?
	(A) High-voltage power lines	(B) Solar panel installations
	(C) Underground pipelines	(D) Overhead transmission lines
239.	Which document is typically used to perform	n a 'Material take-off'?
	(A) Change Order	(B) Project Schedule
	(C) Bill of Quantities	(D) Safety Plan
240.	Which software tools are commonly used for	r performing material take-offs?
	(A) Word processors	
	(B) Presentation software	
	(C) Graphic design software	
	(D) Spreadsheet applications and specialized	l software

241. What type of lines are typically used to represent the x and y axes in isometric drawings?

- (A) Horizontal lines (B) Lines at 30 degrees to the horizontal
- (C) Vertical lines (D) Lines at 45 degrees to the vertical

242. Isometric circles in isometric drawing appear as which shape?

- (A) Squares (B) Ellipses
- (C) Triangles (D) Circles
- 243. What is the primary purpose of computer simulation in fire protection?
 - (A) To analyze and predict fire behavior and spread
 - (B) To create artistic representations of fire
 - (C) To design buildings without fire safety considerations
 - (D) To replace fire safety codes
- 244. What is the significance of validating a fire simulation model?
 - (A) To ensure the model runs faster
 - (B) To reduce the amount of data needed
 - (C) To make the simulation more complex
 - (D) To confirm that the model accurately represents real-world scenarios
- 245. Which of the following is an example of removing the 'heat' side of the fire tetrahedron?
 - (A) Smothering the fire with a blanket
 - (B) Applying a fire extinguisher that cools the fire
 - (C) Using foam to isolate the fuel from the oxygen
 - (D) Allowing the fire to burn out naturally
- 246. Which of the following is an example of a chemical oxidizer that can release oxygen and sustain combustion?
 - (A) Methane (CH₄) (B) Ammonium nitrate (NH₄ NO₃)
 - (C) Sodium chloride (NaCl) (D) Carbon dioxide (CO₂)
- 247. At concentrations above 15% methane in air, methane will not burn because:
 - (A) The mixture is too rich (B) The temperature is too high
 - (C) The mixture is too lean (D) There is insufficient oxygen
- 248. According to NFPA 921, what are fire effects?
 - (A) The process of fire suppression
 - (B) The chemical reaction between fire and oxygen
 - (C) Observable or measurable changes in a material due to fire
 - **(D)** The process of fire ignition

249. What is the main component of soot produced from the combustion of carbon-based fuels?

(A) Hydrogen(B) Oxygen(C) Carbon(D) Nitrogen

- 250. Discoloration as a fire effect is caused by:
 - (A) Increase in temperature and phase change
 - (B) Physical deformation
 - (C) Smoke deposition
 - **(D)** Soot accumulation
- 251. Which of the following factors can be determined by the depth of calcination in gypsum board during fire?
 - (A) The intensity and duration of heat exposure
 - (B) Time of ignition
 - (C) Ventilation and humidity levels
 - (D) The chemical composition of the wall
- 252. Spalling is mostly observed in which type of fire-affected material?
 - (A) Insulation material (B) Concrete and masonry
 - (C) Plastics and polymers (D) Electrical wiring
- 253. Inverted cone patterns are mostly associated with which type of fire behavior?
 - (A) High HRR fires that reach the ceiling
 - (B) Rapidly spreading fires with high flame intensity
 - (C) Low HRR fires that do not reach the ceiling
 - (D) Explosive fires with high pressure waves
- 254. In a flash fire, where does the greatest destruction usually occur due to fire?
 - (A) At the ignition source
 - (B) Where the flash fire encounters a secondary fuel load
 - (C) Where the fuel-air mixture is ignited
 - (D) In the upper areas of the room where heat accumulates
- 255. Which of the following phases occurs first during a blast pressure front?
 - (A) Negative pressure phase (B) Positive pressure phase
 - (C) Equilibrium phase (D) Thermal phase
- 256. Which of the following is NOT happens during the negative pressure phase of an explosion?
 - (A) Gases and air rush back to the origin of the explosion to equalize pressure
 - (B) Can cause secondary damage
 - (C) Has considerably less power than the positive pressure phase
 - (D) The debris and materials are pushed further away from the point of origin
- 257. How does carbon monoxide (CO) affect the human body during inhalation?
 - (A) It burns the lungs, causing thermal injuries.
 - (B) It neutralizes other toxic substances in the blood.
 - (C) It accelerates cellular respiration, increasing energy levels.
 - (D) It binds to hemoglobin, reducing the oxygen-carrying capacity of the blood.
- 258. What is the primary cause of death in cases of acute hyperthermia?
 - (B) Direct burns from heat
 - (A) Rise in blood temperature(C) Oxygen deprivation
- (D) Dehydration

- 259. What is hypoxia?
 - (A) Condition caused by overheating of the body
 - (B) Condition caused by breathing a reduced oxygen atmosphere
 - (C) Condition caused by carbon monoxide poisoning
 - (D) Condition caused by exposure to toxic gases
- 260. Why is it important for a fire investigator to consider the fragility of evidence?
 - (A) To determine its weight before packaging
 - **(B)** To minimize damage or alteration during collection
 - (C) To decide the sequence of collection
 - (D) To record the evidence in the report
- 261. Which of the following is best describes the spread of a wild-land fire?
 - (A) Controlled and slow (B) Unplanned and uncontrolled
 - (C) Unplanned and controlled (D) Planned and uncontrollable
- 262. Who is the Chairperson of the National Disaster Management Authority (NDMA) as per the DM Act 2005?
 - (A) President of India (B) Home Minister of India
 - (C) Chief Justice of India (D) Prime Minister of India
- 263. Who nominates the member of the National Disaster Management Authority (NDMA)?
 - (A) The Chairperson of NDMA (B) The Home Minister of India
 - (C) The President of India (D) The Vice-Chairperson of NDMA
- 264. What is the primary responsibility of the National Authority as per the National Disaster Management Act?
 - (A) Executing disaster management plans
 - (B) Providing immediate relief to disaster victims
 - (C) Laying down policies, plans and guidelines for disaster management
 - (D) Coordinating state-level disaster response teams
- 265. Who may be included in the advisory committee formed by the National Authority as per DM Act 2005?
 - (A) Experts in disaster management with practical experience
 - (B) Government officials only
 - (C) Members of the military
 - (D) Citizens affected by disasters
- 266. Who is responsible for preparing the National Plan for disaster management as per DM Act 2005?
 - (A) National Executive Committee (B) National Authority
 - (C) Prime Minister's Office (D) State Governments
- 267. Who approves the National Plan for disaster management as per DM Act 2005?
 - (A) The President of India (B) National Executive Committee

(D) State Authorities

- (C) National Authority
- 40

268.	Who is the ex-officio Chairperson of the State Disaster Management Authority?			
	(A) Chief Secretary of the State	(B) State Executive Committee Chairperson		
	(C) Chief Minister of the State	(D) Governor of the State		
269.	Who serves as the Chairperson of the without a Legislative Assembly?	Who serves as the Chairperson of the State Disaster Management Authority in Union territories without a Legislative Assembly?		
	(A) Prime Minister	(B) Chief Secretary		
	(C) Governor	(D) Lieutenant Governor or Administrator		
270.	Which of the following is NOT a function of the National Institute of Disaster Management?			
	(A) Developing training modules for disaster management			
	(B) Approving plans prepared by state authorities			
	(C) Formulating a human resource de	velopment plan for disaster management		
	(D) Providing assistance to state gover	rnments in policy formulation		
271.	Who is vested with the command and	supervision of the National Disaster Response Force?		
	(A) Chief Secretary of the State			
	(B) Director General appointed by the Central Government			
	(C) Chairperson of the National Disas	(C) Chairperson of the National Disaster Management Authority		
	(D) Secretary of the Ministry of Home Affairs			
272.	What is the punishment for obstructing an officer or employee of the Central or State Government in the discharge of their duties under the Act without reasonable cause?			
	(A) Imprisonment for a term up to 1 y	(A) Imprisonment for a term up to 1 year or fine, or both		
	(B) Fine only			
	(C) Imprisonment for a term up to 2 years or fine, or both			
	(D) Warning with no penalties			
273.	Which Indian Standard covers the selection, installation, and maintenance of first-aid fire extinguishers?			
	(A) IS 4862	(B) IS 2190		
	(C) IS 11833	(D) IS 15683		
274.	Which Indian Standard specifies the fire extinguishers?	performance and construction requirements for portable		
	(A) IS 15683	(B) IS 4862		
	(C) IS 11833	(D) IS 2190		
275.	Which Indian Standard specifies the requirements for portable fire extinguishers for aircraft, Halon 1211 Type?			
	(A) IS 15683	(B) IS 4862		
	(C) IS 11833	(D) IS 2190		
276.	What is the recommended colour for clean agent fire extinguishers?			
	(A) Red	(B) Black		
	(C) Green	(D) Yellow		

277.	Which of the following actions should be av	aided to provent demage to a base?
211.	Which of the following actions should be avoided to prevent damage to a hose? (A) Storing the hose in a cool, dry, and well-ventilated place	
		x
	(B) Exposing rubber-lined hoses to high ten	
	(C) Ramping hoses that are laid across road	15
	(D) Avoiding sharp bends in the hose	
278.	What is the primary purpose of adaptors in	fire fighting equipment?
	(A) To increase the water pressure in the ho	ses
	(B) To filter out impurities from the water	
	(C) To enhance the flexibility of the hoses	
	(D) To connect suction hoses and/or deliver	y hoses, or hose-reels
279.	According to IS 2097, which of the followin liters per minute?	ng foam-making branches has a flow capacity of 450
	(A) FB 5X	(B) FB 20X
	(C) FB 10X	(D) Inline foam inductor
280.	As per IS 4571, the total mass of aluminiun fighting shall not exceed	n extension ladder having length 10.5 m used for fire
	(A) 10 kg	(B) 48 kg
	(C) 30 kg	(D) 20 kg
281.	A crosspiece that spans the two beams of a weight to the beams, is called a	ladder, serving as a step and transferring the user's
	(A) Tip	(B) Rung
	(C) Roof hooks	(D) Butt
282.	Which of the following care and maintenance	ce activities should be performed for small gear?
	i. Check for rust	
	ii. Clean and polish carefully	
	iii. Prevent contact with oil or solvent	
	Choose the correct option:	
	(A) i, ii and iii	(B) ii and iii
	(C) i and iii	(D) i and ii
283.	In which type of breeching, there shall be fittings on the two inlets?	a female fitting (single) on the outlet side and male
	(A) Dividing breeching	(B) Controlled Dividing breeching
	(C) Collecting breeching	(D) None of the above
284.	Where a goose neck branch is typically atta	ched in a fire fighting setup?
	(A) Directly to a fire hydrant	(B) To a line of hose in place of a branch
	(C) To a fire engine's water tank	(D) To a high-pressure water pump

- 285. What is the difference between soft suction hose and hard suction hose?
 - (A) Soft suction hose is for drafting water, while hard suction hose is for pressurized water
 - (B) Soft suction hose is for domestic use, while hard suction hose is for industrial use
 - (C) Soft suction hose is used for high-pressure water, while hard suction hose is for low-pressure water
 - (D) Soft suction hose is used for pressurized water, while hard suction hose is for drafting water
- 286. Which type of hose would be best suited for forest fire fighting where heat and durability are concerns?
 - (A) Booster hose (B) Non-percolating hose
 - (C) Suction hose (D) Percolating hose
- 287. What is the primary function of the jacket in fire hoses?
 - (A) To deliver water
 - (B) To provide strength to withstand high pressure
 - (C) To transport foam
 - (D) To prevent water from freezing
- 288. What is the function of a jockey pump in a fire pump system?
 - (A) To provide the main water supply
 - (B) To cool down the fire pump
 - (C) To maintain system pressure when there is no fire
 - (D) To pump foam instead of water
- 289. What triggers the activation of a fire pump in a fire protection system?
 - (A) An increase in ambient temperature (B) A drop in water pressure
 - (C) Manual activation by a fire officer (D) A smoke detector signal
- 290. How is the 'Power Take-off (PTO)' engaged in a fire tender?
 - (A) Automatically when the engine is started
 - (B) By turning off the vehicle's main engine
 - (C) Through the operation of the fire tender's hydraulic system
 - (D) Manually using a control switch in the driver's cabin
- 291. What is the primary function of the 'Power Take-off (PTO)' in a fire tender?
 - (A) To transfer engine power to operate the fire pump
 - (B) To generate electrical power for the fire tender's equipment
 - (C) To supply hydraulic pressure for the water hoses
 - (D) To control the lights and sirens on the fire tender
- 292. According to IS: 15105 (2002), the number of sprinklers in one installation shall not exceed the ______ in high hazard;
 - (A) 500 (B) 1000
 - (C) 1500 (D) 2000

- 293. What is a primary advantage of using gas-based fire suppression systems over water-based systems?
 - (A) They are better suited for sensitive electronic equipment
 - **(B)** They are more cost-effective
 - (C) They are simpler to install
 - (D) They have a lower environmental impact
- 294. According to National Building Code, match the following classification of buildings under fire prevention:

	List I	List II
	a. Group E	1. Institutional
	b. Group G	2. Residential
	c. Group A	3. Industrial
	d. Group C	4. Business
	(A) a - 2, b - 1, c - 4, d - 3	(B) a - 4, b - 3, c - 2, d - 1
	(C) a - 1, b - 4, c - 3, d - 2	(D) a - 3, b - 2, c - 1, d - 4
295.	What feature of an amplifier is crucial for ensuring that messages are clearly heard over a loud emergency environment?	
	(A) Frequency response	(B) Power output
	(C) Signal-to-noise ratio	(D) Signal input
296.	Water flows in a 10 cms. diameter pipe at a velocity of 0.75 m/s. The mass flow rate of water in the pipe is;	
	(A) 353 kg/min	(B) 209 kg/min
	(C) 88.4 kg/min	(D) 44.5 kg/min
297.	Which mechanism is typically used in a hydraulic spreader to perform its function?	
	(A) Manual force with a lever	(B) Hydraulic fluid pressure
	(C) Pneumatic pressure	(D) Electrical motor power
298.	Which of the following is a cutting tool designed specifically to cut through heavy timber?	
	(A) Circular Saw	(B) Sledgehammer
	(C) Shovel	(D) Crowbar
299.	Which one is NOT an assumption involved with the Bernoulli equation?	
	(A) No elevation changes	(B) Incompressible flow
	(C) Steady flow	(D) Irrotational flow
300.	What is the flammable range of methane in air?	
	(A) 5% to 15%	(B) 0.5% to 15%
	(C) 10% to 20%	(D) 1% to 12%