DSSSB JE CE

Previous Year Paper
20 Nov 2019 Shift 1

GOVT. OF NCT OF DELHI
Delhi Subordinate Services Selection Board
FC-18, Institutional Area, Karkardooma, Delhi – 110092.
www.dsssb.delhigovt.nic.in

Participant ID	
Participant Name	
Test Center Name	Star Computer Lab
Test Date	20/11/2019
Test Time	8:30 AM - 10:30 AM
Subject	JUNIOR ENGINEER CIVIL

Section : **Mental Ability**

Q.1 **In the following question, select the odd letters from the given alternatives.**

Ans ✗ 1. USTR

✗ 2. FDEC

✗ 3. LJKI

✔ 4. XVUW

Question ID : **9599674880**

Q.2 **What should come in place of the question mark (?) in the following series?**

14, 17, 22, 29, 38, ?

Ans ✗ 1. 37

✔ 2. 49

✗ 3. 47

✗ 4. 46

Question ID : **9599674887**

Q.3 **In each question below are three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly facts and then decide which of the given conclusions logically follows from the given statements.**

Statements:
I. All cycles are bikes.
II. All bikes are cars.
III. All cars are trains.

Conclusions:
I. Some trains are cycles.
II. All cars are cycles.

Ans ✗ 1. Only conclusion II follows.

✔ 2. Only conclusion I follows.

✗ 3. Both conclusions I and II follows.

✗ 4. Either conclusion I or II follows.

Question ID : **9599674886**

Q.4 Select the missing figure in the series from the given figures.

Question figures:

TREE	┴ᴚƎƎ	FROM	?

Ans

✗ 1. ᴍOᴚꟻ

✔ 2. ꟻᴚOᴡ

✗ 3. ꟻᴚOᴍ

✗ 4. FROM

Question ID : 9599674892

Q.5 If MY TEAM is coded as KW RCYK then the code of 'BE' will be:

Ans
✗ 1. ZT

✗ 2. AU

✗ 3. UM

✔ 4. ZC

Question ID : 9599674881

Q.6 एक व्यक्ति ने एक लड़के का परिचय देते हुए कहा कि- "वह मेरी पत्नी के इकलौते पुत्र का पुत्र है।" व्यक्ति किस प्रकार लड़के से सम्बंधित है?

Ans
✗ 1. चाचा / मामा

✗ 2. भाई

✔ 3. दादा

✗ 4. भतीजा

Question ID : 9599674884

Q.7 Select the option that is related to the third word in the same way as the second word is related to the first word.
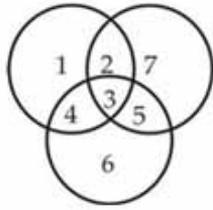
Kuchipudi : Andhra Pradesh :: Assam : ?

Ans
✗ 1. Mohiniyattam

✔ 2. Bihu

✗ 3. Gidda

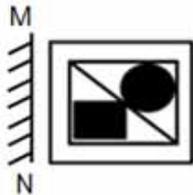✗ 4. Ghoomar

Question ID : 9599674879

Q.8 In the given figure, circles represent students studying three different subjects. How many students study all the three subjects?

Ans ✗ 1. 2

✗ 2. 1

✔ 3. 3

✗ 4. 4

Question ID : **9599674889**

Q.9 Which of the option figure is exactly the mirror image of the given figure?

Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

Question ID : **9599674894**

Q.10 A, B, C, D, E and F are sitting in a circle facing the centre. D is between F and B. A is second to the left of D and second to the right of E, but third left of B.

Who is facing A?

Ans ✔ 1. B

✗ 2. D

✗ 3. F

✗ 4. C

Question ID : 9599674882

Q.11 In each question below are three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly facts and then decide which of the given conclusions logically follows from the given statements.

Statements:
I. Some papers are files.
II. Some files are data.
III. Some data are records.

Conclusions:
I. Some papers are records.
II. No papers are records.

Ans ✔ 1. Either conclusion I or II follows.

✗ 2. Only conclusion I follows.

✗ 3. Only conclusion II follows.

✗ 4. Both conclusions I and II follows.
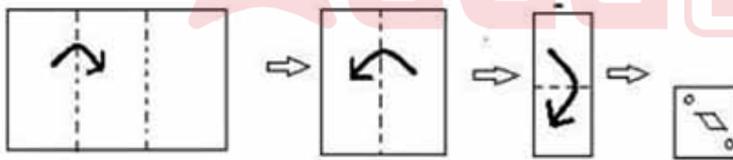
Question ID : 9599674885

Q.12 A series is given, with one word missing. Choose the correct alternative from the given ones that will complete the series.

Oxygen, Toil, Arouse, Arson, Tenuous, ?

Ans ✗ 1. Lion
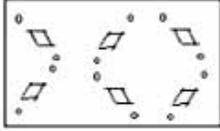
✗ 2. Onion

✗ 3. Onto

✔ 4. Lustrous

Question ID : 9599674876

Q.13 Here the figures below represents how a piece of paper is folded sequentially and cut according to the pattern given in the last figure. You have to determine how the unfolded paper would look after the pattern has been cut.

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.

Question ID : **9599674895**

Q.14 How many straight lines are there in the following figures?

Ans 1. 13

2. 11

3. 12

4. 10

Question ID : **9599674893**

Q.15 In a group of six people L, M, N, O, P and Q, each having a different weight, O is heavier than M. N is lighter than only P & L. M is not the lightest. L is not the heaviest.

How many people are heavier than O?

Ans 1. More than Three

2. None

3. Two

4. Three

Question ID : **9599674883**

Q.16 Which of the following diagrams correctly represents the relationship among.

Idol, Atheist, Temple

Ans 1.

2.

3.

4.

Question ID : **9599674890**

Q.17 Select the option that is related to the third term in the same way as the second term is related to the first term.

AEFG : DCIE :: JMPR : ?

Ans 1. MJSP

2. MSKP

3. MKSP

4. MSJP

Question ID : **9599674878**

Q.18 If "−" means "divided by", "+" means "multiplied by", "÷" means "added to", "x" means "subtracted from", then 11 ÷ 6 - 2 + 5 x 3 = ?

Ans 1. 21

2. 26

3. 23

4. 17

Q.19 Shekhar starts walking south from his school and then took one right turn, one left turn and one right turn to reach his shop. In which direction is Shekhar with respect to his school?

Ans 1. South

2. North

3. South-west

4. South-east

Q.20 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

FK27, LQ64, RW125, ?

Ans 1. XB216

2. YB343

3. XC216

4. CX216

Section : **General Awareness**

Q.1 _____ (i) _____ from the state of _____ (ii) _____ was awarded the Bharat Ratna in the year 2015.

Ans 1. (i) Prof Amartya Sen (ii) United Kingdom

2. (i) Prof. C. N. R. Rao (ii) Karnataka

3. (i) Pandit Bhimsen Gururaj Joshi (ii) Maharashtra

4. (i) Pandit Madan Mohan Malaviya (ii) Uttar Pradesh

Q.2 Through which of the following departments does the Government of India procure buffer stock of food-grains?

Ans 1. Indian Council of Agricultural Research

2. Ministry of Agriculture and Farmers' Welfare

3. Food Corporation of India

4. Commission for Agricultural Costs and Prices

Q.3 Which particular Sanskrit work of Jayadeva has a place of pride in the Odissi dance repertoire?

Ans 1. Vaishnava Padavali

2. Gitagovindam

3. Caurapancasika

4. Abhigyanam shakuntalam

Q.4 _____ is the Chief Minister of Jharkhand.

Ans 1. Shri Manohar Lal

2. Shri Raghubar Das

3. Shri Jairam Thakur

4. Shri Naveen Patnaik

Q.5 In which year did the Parliament pass a bill known as Indian Post office (amendment) bill, that was widely criticised by many for it sought to curtail the freedom of the press?

Ans 1. 1987

2. 1985

3. 1986

4. 1984

Q.6 Which of the following statements about the Punch - marked coins is incorrect?

Ans 1. These were generally rectangular or sometimes square or round in shape

2. The coins were not inscribed

3. They were either cut out of metal sheets or made out of flattened metal globules

4. These coins remained in circulation till the middle centuries CE

Q.7 The density of population in India (2011) has increased to _____ (i)_____ persons per sq km from _____ (ii)_____ persons per sq km over the last 50 years.

Ans 1. (i) 562 (ii) 300

2. (i) 233 (ii) 45

3. (i) 345 (ii) 76

4. (i) 382 (ii) 200

Q.8 Which sport is Anthony Amalraj related to?

Ans 1. Table tennis

2. Football

3. Tennis

4. Badminton

Q.9 What is the approximate length of the Great Himalayan range, also known as the central axial range, from east to west?

Ans 1. 2,500 km

2. 2,848 km

3. 3,500 km

4. 1,670 km

Question ID : 9599674904

Q.10 Bianca Andreescu became the first _____ to win the US Open 2019?

Ans 1. Austrian

2. New Zealander

3. Australian

4. Canadian

Question ID : 9599674915

Q.11 What is the reason that the value of g (acceleration due to gravity) becomes greater at the poles than at the equator?

Ans 1. The strengthening intensity of the earth's magnetic pull at the equator

2. Radius of the earth increases from the equator to the poles

3. The presence of the magnetic poles at the poles of the earth

4. Radius of the earth increases from the poles to the equator

Question ID : 9599674901

Q.12 Tanda was the name of the caravans of the _____.

Ans 1. Gonds

2. Banjaras

3. Santhals

4. Kolis

Question ID : 9599674907

Q.13 According to the World Bank, which of the following people have been defined as living in extreme economic poverty?

Ans 1. people living on less than $1.90 per day

2. people living on less than $2.10 per day

3. people living on less than $1.50 per day

4. people living on less than $1.70 per day

Question ID : 9599674898

Q.14 In which field was Dr. Gangadhar Vithobaji Pantawane of Maharashtra awarded the Padma Shri in the year 2018?

Ans 1. Arts

2. Medicine

3. Literature and Education

4. Science and Engineering

Question ID : 9599674910

Q.15 In which year was there a furore over the attempt by the government to introduce the Ilbert Bill by the white opposition that forced the government to withdraw the bill?

Ans 1. 1883

2. 1880

3. 1881

4. 1885

Question ID : **9599674906**

Q.16 The 91st Amendment Act (2003), was made so that the Council of Ministers shall not exceed ___ percent of total number of members of the House of the People (or Assembly, in the case of the States).

Ans 1. 16

2. 20

3. 15

4. 18

Question ID : **9599674913**

Q.17 What is the character of the black soil's slow absorption and loss of moisture, which in turn retains the moisture for a very long time called?

Ans 1. soil degradation

2. soil erosion

3. soil conservation

4. self-ploughing

Question ID : **9599674903**

Q.18 Stories from the Ramayana and Mahabharata provide the content of most _____ plays.

Ans 1. Kathakali

2. Mohiniattam

3. Odissi

4. Kathak

Question ID : **9599674896**

Q.19 In which of the following is nitrogen not present?

Ans 1. Proteins

2. Fats

3. Vitamin B-6

4. Nucleic acid

Question ID : **9599674902**

Q.20 Who presented the cell theory that all the plants and animals are composed of cells and that the cell is the basic unit of life?

Ans 1. Robert Hooke

2. Virchow

3. Robert Brown

4. Schleiden and Schwann

Question ID : **9599674900**

Q.1 **A certain distance is covered in a certain time. If 50% more distance is covered in 50% less time, then find the ratio of the speed in the two cases.**

Ans 1. 4 : 9

2. 1 : 3

3. 2 : 3

4. 3 : 5

Question ID : **9599674929**

Q.2 **In a mixture of 60 litres, the ratio of milk and water is 2 : 1 respectively. How much more water must be added to make its ratio 1 : 2 respectively?**

Ans 1. 40 litres

2. 52 litres

3. 60 litres

4. 54 litres

Question ID : **9599674926**

Q.3 **The numerical value of the profit % is equal to the cost price of a book, on selling it at Rs. 119. So, how much profit is there on selling it?**

Ans 1. Rs. 36

2. Rs. 26

3. Rs. 39

4. Rs. 49

Question ID : **9599674924**

Q.4 **The given table shows the number of question attempted and number of right question done by four students in an exam. For every right question 1 mark is awarded and for every wrong question 0.25 mark is deducted.**

Find the average of marks scored by all four students.

Ans 1. 54.3125

2. 61.25

3. 58.0625

4. 52.525

Question ID : **9599674935**

Q.5 **If the length of a rectangle increases by 15% and the breadth decreases by 8%, then the percentage change in its area will be:**

Ans 1. 5.8% decrease

2. 8.2% increase

3. 8.2% decrease

4. 5.8% increase

Question ID : **9599674922**

Q.6 **The following line graph represents percentage wise breakup of workers in Marketing**

department, Research & Development department and Administrative department in five companies C1, C2, C3, C4 and C5.

If the number of workers in Research & Development departments of C2 and C3 are equal, then find the ratio of workers in marketing department of C2 and C3 respectively.

Ans
1. 19 : 10

2. 10 : 19

3. 20 : 57

4. 15 : 34

Question ID : **9599674934**

Q.7 The average of six numbers is 32. If each of the first three numbers is increased by 2 and each of the remaining three numbers is decreasing by 4, then the new average is:

Ans
1. 35

2. 30

3. 31

4. 34

Question ID : **9599674921**

Q.8 What should come in place of the question mark (?) in the following question?

Ans
1. 1000

2. 10

3. 900

4. 100

Question ID : **9599674918**

Q.9 The perimeter of a right triangle is 48 cm and its hypotenuse is 18 cm. The area of the triangle is:

Ans
1. 144 sq cm

2. 26 sq cm

3. 24 sq cm

4. 60 sq cm

Question ID : **9599674931**

Q.10 A rectangular box measures internally 1.5 m long, 1.2 m broad and 60 cm deep. The number of cubical block each of edge 30 cm that can be packed inside the box is:

Ans
1. 60

2. 30

3. 120

4. 40

Question ID : **9599674932**

Q.11 A, B and C together can do a work in 6 days. If A and C can do the same work in 12 and 18 days respectively, then in how many days can B complete it?

Ans
1. 36

2. 24

3. 30

4. 20

Q.12 The given pie chart shows the distribution of number of teachers in five schools.

If the number of female teachers in school S2, S4 and S5 together are 41, then what is the average number of male teacher in these three schools?

Ans   1. 24

2. 31

3. 27

4. 18

Q.13 The ratio of monthly income and expenditure of a person is 57:43. If he saves Rs. 42,000 per annum, What is his monthly income?

Ans   1. Rs. 14,250

2. Rs. 72,000

3. Rs. 27,000

4. Rs. 34,000

Q.14 Two numbers on dividing by 33, gives remainders as 21 and 28 respectively. If the sum of these two numbers is divided by 33, then the remainder will be:

Ans   1. 14

2. 12

3. 16

4. 10

Q.15 What should come in place of the question mark (?) in the following question?

Ans   1. 51

2. 50

3. 48

4. 49

Q.16 The sum of the H.C.F. and L.C.M. of two numbers is 680 and L.C.M. is 84 times the H.C.F. If one of the numbers is 96, then the other number is:

Ans   1. 84

2. 56

3. 42

4. 32

Q.17 The population of a town is 9600. If the males increase by 16% and the females by 10%, the population will be 10800. The number of females in the town are:

Ans 1. 6000

2. 5600

3. 3600

4. 4000

Q.18 At what percent per annum will Rs. 3000 amounts to Rs. 3993 in 3 years, if the interest is compounded annually?

Ans 1. 10 percent

2. 13 percent

3. 11 percent

4. 9 percent

Q.19 What should come in place of the question mark (?) in the following question?

Ans 1. 9

2. 26

3. 14

4. 7

Q.20 A train with a uniform speed passes a 122 meters long platform in 17 seconds and a 210 meters long bridge in 25 seconds. The speed of the train is:

Ans 1. 37.6 kmph

2. 37.5 kmph

3. 39.6 kmph

4. 46.5 kmph

Section : **General English**

Q.1 The following sentence has been divided into three parts. One of them may be incorrect. Choose the INCORRECT part from the given options. If you don't find any error, mark 'No error' as your answer.

We live in a free society / where we can openly / expressed our opinions.

Ans 1. expressed our opinions

2. We live in a free society

3. No error

4. where we can openly

Q.2 Select the word which means the same as the group of words given.

Special words or expressions used by a profession or group that are difficult for others to understand.

Ans 1. Brigand

2. Glossary

3. Cannibal

4. Jargon

Question ID : **9599674950**

Q.3 Select the most appropriate synonym of the given word.

Exemplary

Ans 1. Prosperity

2. Honorable

3. Aesthetic

4. Restrained

Question ID : **9599674944**

Q.4 Select the meaning of the given idiom.

An eye opener

Ans 1. A difficult task

2. A tough decision

3. A shocking revelation

4. A small opening

Question ID : **9599674948**

Q.5 Choose the correct word in the blank from the given options.

As I grew older, my imaginary friends _____ on the personas of real living people.

Ans 1. take

2. taking

3. took

4. takes

Question ID : **9599674940**

Q.6 Choose the correct word in the blank from the given options.

In the west, democracy means that the source of political authority _____ in the people.

Ans 1. resided

2. reside

3. resides

4. residing

Question ID : **9599674941**

Q.7 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select option 'No substitution required'.

Grammar is just a natural function of children's brains, <u>and they apply it to</u> whatever they find.

Ans 1. they apply them for

2. they apply that in

3. No substitution required

4. they applied them to

Question ID : **9599674939**

Q.8 Select the meaning of the given idiom.

Cross one's fingers

Ans 1. To involve in a task

2. To hope for good luck

3. To engage in a dispute

4. To cooperate

Question ID : **9599674949**

Q.9 Select the INCORRECTLY spelt word.

Ans 1. Longevity

2. Jubiliation

3. Adversity

4. Superficial

Question ID : **9599674947**

Q.10 The following sentence has been divided into three parts. One of them may be incorrect. Choose the INCORRECT part from the given options. If you don't find any error, mark 'No error' as your answer.

Last week's paper upset me / enough that I decided I should / share my disappointment.

Ans 1. No error

2. share my disappointment.

3. enough that I decided I should

4. Last week's paper upset me

Question ID : **9599674937**

Q.11 Parts of a sentence have been jumbled up. Arrange these parts in a meaningful order.

A. plastic, there has to
B. be greater stress
C. counter the menace of
D. on recycling plastic.
E. As India prepares to

Ans 1. EDCAB

2. ECABD

3. EBDCA

4. EABDC

Q.12 **Select the most appropriate antonym of the given word.**

Trivial

Ans 1. Inattentive

2. Important

3. Partial

4. Hurried

Q.13 **Arrange the jumbled sentences to make a meaningful paragraph.**

A. Before you go to have your next pizza, do read a little about it.
B. Yet, it is loved by everyone.
C. Do you know the different types of pizzas and their origin?
D. We have a lot of options in food nowadays, yet the simplest and most savoured among them is pizza!
E. Pizza has gone through numerous transformations.

Ans 1. CDAEB

2. CAEBD

3. CBDAE

4. CEBDA

Q.14 **Select the INCORRECTLY spelt word.**

Ans 1. Discredit

2. Diligent

3. Novice

4. Suppres

Q.15 **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select option 'No substitution required'.**

Everyone is invited to attend this meeting as it is something <u>which affects all</u> the community.

Ans 1. which has affect

2. No substitution required

3. which effected

4. which effects

Comprehension:

Read the following passage and answer the questions below.

When I was 11, I visited India and doing the typical tourist in India routines I got to see and ride elephants. Now if you've been near elephants before you know that huge doesn't aptly capture the sheer size of them, and in the eyes of an 11 year old that was just amplified."

"Oddly enough though all of the elephants had their ankles tied to the ground with a bit of rope, and while the rope looked like it was good quality, the amount and thickness just didn't seem capable of holding back a fully grown behemoth like an elephant. So I asked one of the

workers and he explained that they had the elephants from infancy, and when the elephants are young the rope that is used is enough to keep them contained as they don't have the strength and size to break free yet. But by the time they grow into adults and have the strength to easily break away, they've grown so accustomed to being unable to snap the ropes that they don't believe they can break free, even when it seemed so obvious to anyone else looking."

It was habit and fear that kept them in bondage, not the ropes themselves.

I guess the point of this long winded story about Dumbo is that we never really know what we're capable of until we push the limits a bit, step outside of our comfort zone, and be ballsy and crazy enough to tug at the things that we feel hold us back every once in a while, in hopes that they'll rip apart, leaving us free to command our destinies.

SubQuestion No : 16

Q.16 Which of the following describes the true essence of the passage?

Ans 1. It is not in the stars to hold our destiny but in ourselves.

2. There's nowhere you can be that isn't where you're meant to be

3. Destiny favors the brave

4. Command your destiny

Question ID : **9599674952**

Comprehension:

Read the following passage and answer the questions below.

When I was 11, I visited India and doing the typical tourist in India routines I got to see and ride elephants. Now if you've been near elephants before you know that huge doesn't aptly capture the sheer size of them, and in the eyes of an 11 year old that was just amplified."

"Oddly enough though all of the elephants had their ankles tied to the ground with a bit of rope, and while the rope looked like it was good quality, the amount and thickness just didn't seem capable of holding back a fully grown behemoth like an elephant. So I asked one of the workers and he explained that they had the elephants from infancy, and when the elephants are young the rope that is used is enough to keep them contained as they don't have the strength and size to break free yet. But by the time they grow into adults and have the strength to easily break away, they've grown so accustomed to being unable to snap the ropes that they don't believe they can break free, even when it seemed so obvious to anyone else looking."

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SubQuestion No : 17

Q.17 What does the term "Ballsy" mean?

Ans 1. Courageous

2. Handsome

3. Stubborn

4. Unchanging

Question ID : **9599674953**

Comprehension:

Read the following passage and answer the questions below.

When I was 11, I visited India and doing the typical tourist in India routines I got to see and ride elephants. Now if you've been near elephants before you know that huge doesn't aptly capture the sheer size of them, and in the eyes of an 11 year old that was just amplified."

"Oddly enough though all of the elephants had their ankles tied to the ground with a bit of rope, and while the rope looked like it was good quality, the amount and thickness just didn't seem capable of holding back a fully grown behemoth like an elephant. So I asked one of the

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SubQuestion No : 18

Q.18 Describe the design of the passage:

Ans   1. Philosophical

2. Narrative

3. Satirical

4. Motivating

Question ID : **9599674956**

Comprehension:

Read the following passage and answer the questions below.

When I was 11, I visited India and doing the typical tourist in India routines I got to see and ride elephants. Now if you've been near elephants before you know that huge doesn't aptly capture the sheer size of them, and in the eyes of an 11 year old that was just amplified."

"Oddly enough though all of the elephants had their ankles tied to the ground with a bit of rope, and while the rope looked like it was good quality, the amount and thickness just didn't seem capable of holding back a fully grown behemoth like an elephant. So I asked one of the workers and he explained that they had the elephants from infancy, and when the elephants are young the rope that is used is enough to keep them contained as they don't have the strength and size to break free yet. But by the time they grow into adults and have the strength to easily break away, they've grown so accustomed to being unable to snap the ropes that they don't believe they can break free, even when it seemed so obvious to anyone else looking."

It was habit and fear that kept them in bondage, not the ropes themselves.

I guess the point of this long winded story about Dumbo is that we never really know what we're capable of until we push the limits a bit, step outside of our comfort zone, and be ballsy and crazy enough to tug at the things that we feel hold us back every once in a while, in hopes that they'll rip apart, leaving us free to command our destinies.

SubQuestion No : 19

Q.19 The word "ropes" is a metaphor for?

Ans   1. Inhibitions

2. Shackles

3. Obstacles

4. Complacency

Question ID : **9599674954**

Comprehension:

Read the following passage and answer the questions below.

When I was 11, I visited India and doing the typical tourist in India routines I got to see and ride elephants. Now if you've been near elephants before you know that huge doesn't aptly capture the sheer size of them, and in the eyes of an 11 year old that was just amplified."

"Oddly enough though all of the elephants had their ankles tied to the ground with a bit of rope, and while the rope looked like it was good quality, the amount and thickness just didn't seem capable of holding back a fully grown behemoth like an elephant. So I asked one of the

workers and he explained that they had the elephants from infancy, and when the elephants are young the rope that is used is enough to keep them contained as they don't have the strength and size to break free yet. But by the time they grow into adults and have the strength to easily break away, they've grown so accustomed to being unable to snap the ropes that they don't believe they can break free, even when it seemed so obvious to anyone else looking."

It was habit and fear that kept them in bondage, not the ropes themselves.

I guess the point of this long winded story about Dumbo is that we never really know what we're capable of until we push the limits a bit, step outside of our comfort zone, and be ballsy and crazy enough to tug at the things that we feel hold us back every once in a while, in hopes that they'll rip apart, leaving us free to command our destinies.

SubQuestion No : 20

Q.20 Why are the young elephants tied with ropes when young?

Ans   1. To prevent them from running away

2. To domesticate them

3. To prevent them from running away and domesticate them

4. To save them from predators

Question ID : **9599674955**

Section : **General Hindi**

Q.1 दिए गए वाक्य के लिए एक शब्द का चयन कीजिए:

'ऐसी बुद्धि वाला जो किसी बात का हल तुरन्त निकाल ले।'

Ans   1. प्रष्टव्य

2. परिपक्व

3. प्रहसन

4. प्रत्युत्पन्नमति

Question ID : **9599674962**

Q.2 मुहावरा 'अक्ल के घोड़े दौड़ाना' का क्या अर्थ है?

Ans   1. पाबन्दी या रोक लगाना

2. केवल कल्पनाएँ करते रहना

3. गोद में लेना, आलिंगनबद्ध करना

4. अक्ल से घोड़े दौड़ाना

Question ID : **9599674968**

Q.3 किसी शब्द अथवा पद के संक्षिप्त रूप के बाद _____ चिन्ह का प्रयोग किया जाता है।

Ans   1. तारक / पाद

2. अल्प विराम

3. लाघव विराम अथवा संक्षेपसूचक

4. विस्मय विराम

Question ID : **9599674969**

Q.4 निम्न में से अविकारी शब्द कौन-सा है?

Ans   1. मोती

2. घोड़ा

3. मनुष्य

4. भीतर

Q.5 निम्न में से बहुवचन शब्द का चयन कीजिए:

Ans 1. योद्धा

2. पानी

3. जनता

4. वर्षा

Q.6 वाक्य प्रकार का चयन कीजिए:

राधेश्याम इतना दुर्बल हो गया कि उससे चला भी नहीं जाता।

Ans 1. कर्मवाच्य

2. भाववच्य

3. सरल वाक्य

4. कर्तृवाच्य

Q.7 शब्द 'महावीर' में कौन-सा समास है?

Ans 1. अव्ययीभाव समास

2. बहुव्रीहि समास

3. द्वंद्व समास

4. कर्मधारय समास

Q.8 निम्न में से शुद्ध वाक्य का चयन कीजिए:

Ans 1. आकाश में पक्षी का झुंड उड़ रहा है।

2. हर स्थिति में धैर्य रखना चाहिए।

3. शहर का जीवन अनेक तनाव से यूक्त है।

4. वहां कोई लगभग सौ लोग थे।

Q.9 वाक्य में जब क्षणभर ठहरने का समय आता है, तब वहाँ कौन-सा चिन्ह लगाते है?

Ans 1. विस्मय विराम

2. अल्प विराम

3. तारक / पाद

4. पूर्ण विराम

Q.10 शब्द 'यशोदा' का संधि विच्छेद क्या होगा?

Ans
1. यश + दा
2. यश: + दो
3. यसो + दा
4. यश: + दा

Q.11 लोकोक्ति "हाथ कंगन को आरसी क्या" का क्या अर्थ है?

Ans
1. प्रत्यक्ष को प्रमाण की क्या आवश्यकता
2. बचपन से ही अच्छे लक्षणों का दिखाई देना
3. सीधी उँगली से घी नहीं निकलता
4. बात एक ही है दोनों बातों में कोई अंतर नहीं है

Q.12 शब्द-युग्म के सही अर्थ-भेद का चयन कीजिए:

"जरठ - जठर"

Ans
1. बीस - पेट
2. बूढ़ा - पेट
3. बूढ़ा - युवक
4. पेट - बूढ़ा

Q.13 "अभिसरण" का विलोम शब्द क्या है?

Ans
1. अनुसरण
2. प्रसारण
3. मिश्रण
4. अपसरण

Q.14 निम्न में से तत्सम शब्द का चयन कीजिए:

Ans
1. धान
2. भांजा
3. कारवेल
4. करेला

Q.15 निम्न में से कौन-सा शब्द "किरण" का पर्यायवाची शब्द नहीं है?

Ans
1. कर
2. नीरज
3. रश्मि
4. अंशु

Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए:

जब सविनय अवज्ञा आंदोलन अपने शिखर पर था तब नवम्बर 1930 में भारतीय गोलमेज सम्मेलन का अधिवेशन प्रारंभ हुआ। इसमें कांग्रेस अनुपस्थित थी। पहला गोलमेज सम्मेलन सफल रहा। परिसंघ बनाने के पक्ष में सभी एकमत थे। सर तेजबहादुर सप्रू परिसंघ के समर्थक थे। बीकानेर के महाराजा और भोपाल के नवाब ने राजाओं की ओर से यह कहा कि वे परिसंघ में मिलने के लिए तैयार हैं। लीग के दोनों गुट, एक शफी वाला और दूसरा जिन्ना वाला, सहमत हो गए। किंतु सभी ने यह अनुभव किया कि कांग्रेस को सम्मिलित किया जाना चाहिए। वाइसराय लार्ड इर्विन और गांधीजी के बीच एक भेंट हुई और दोनों ने 5 मार्च 1931 को एक करार पर हस्ताक्षर किए।

महात्माजी आंदोलन वापिस लेने और गोलमेज सम्मेलन में सम्मिलित होने के लिए सहमत हो गए। इस करार की मिश्रित प्रतिक्रिया हुई। कुछ लोगों ने इस करार को सफल बताया क्योंकि वाइसराय बातचीत करने के लिए मेज पर आया था। दूसरों की आलोचना का यह आधार था कि भारतीयों को इससे कुछ भी प्राप्त नहीं हुआ। असंतोष का एक महत्वपूर्ण कारण यह भी था कि गांधीजी ने भगत सिंह, सुखदेव और राजगुरु इन तीन क्रांतिकारियों पर दया करके उन्हें फांसी नहीं देने के लिए वाइसराय से अनुरोध नहीं किया। इन तीनों को 23 मार्च 1931 को फांसी दे दी गई। पूरा देश इससे आहत हो गया और दुख में डूब गया। स्थान-स्थान पर गांधीजी के विरुद्ध प्रदर्शन किए गए। 29 मार्च 1931 को कांग्रेस का जो अधिवेशन कराची में प्रारंभ हुआ उसमें इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया।

दूसरे गोलमेज सम्मेलन में गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में भाग लिया। डा. अंबेडकर ने दलित वर्गों का प्रतिनिधित्व करते हुए सम्मेलन में भाग लिया और यह मांग की कि जिस प्रकार अन्य अल्पसंख्यकों के लिए पृथक् निर्वाचक मंडल और आरक्षण हैं उसी प्रकार दलितों के लिए भी हो। गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे, जबकि मुसलमानों की मांगों के आगे समर्पण कर चुके थे। गांधीजी ने यह भी प्रयत्न किया कि मुसलमान उनके साथ आएं और डा. अंबेडकर का विरोध करें। अल्पसंख्यक समिति की अंतिम बैठक में कोई सहमति नहीं हो सकी और गांधीजी ने अन्य व्यक्तियों के साथ एक अध्यपेक्षा पर हस्ताक्षर किए जिससे ब्रिटेन के प्रधानमंत्री को मध्यस्थता करने की शक्ति दी गई। कांग्रेस और मुस्लिम लीग के बीच की खाई और बढ़ गई। कांग्रेस ने सविनय अवज्ञा आंदोलन पुनः प्रारंभ कर दिया।

SubQuestion No : 16

Q.16 उपरोक्त गद्यांश के अनुसार गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में कौन-से सम्मेलन में भाग लिया था?

Ans　　1. चौथे गोलमेज सम्मेलन

　　　　2. दूसरे गोलमेज सम्मेलन

　　　　3. पहले गोलमेज सम्मेलन

　　　　4. तीसरे गोलमेज सम्मेलन

Question ID : 9599674977

Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए:

जब सविनय अवज्ञा आंदोलन अपने शिखर पर था तब नवम्बर 1930 में भारतीय गोलमेज सम्मेलन का अधिवेशन प्रारंभ हुआ। इसमें कांग्रेस अनुपस्थित थी। पहला गोलमेज सम्मेलन सफल रहा। परिसंघ बनाने के पक्ष में सभी एकमत थे। सर तेजबहादुर सप्रू परिसंघ के समर्थक थे। बीकानेर के महाराजा और भोपाल के नवाब ने राजाओं की ओर से यह कहा कि वे परिसंघ में मिलने के लिए तैयार हैं। लीग के दोनों गुट, एक शफी वाला और दूसरा जिन्ना वाला, सहमत हो गए। किंतु सभी ने यह अनुभव किया कि कांग्रेस को सम्मिलित किया जाना चाहिए। वाइसराय लार्ड इर्विन और गांधीजी के बीच एक भेंट हुई और दोनों ने 5 मार्च 1931 को एक करार पर हस्ताक्षर किए।

महात्माजी आंदोलन वापिस लेने और गोलमेज सम्मेलन में सम्मिलित होने के लिए सहमत हो गए। इस करार की मिश्रित प्रतिक्रिया हुई। कुछ लोगों ने इस करार को सफल बताया क्योंकि वाइसराय बातचीत करने के लिए मेज पर आया था। दूसरों की आलोचना का यह आधार था कि भारतीयों को इससे कुछ भी प्राप्त नहीं हुआ। असंतोष का एक महत्वपूर्ण कारण यह भी था कि गांधीजी ने भगत सिंह, सुखदेव और राजगुरु इन तीन क्रांतिकारियों पर दया करके उन्हें फांसी नहीं देने के लिए वाइसराय से अनुरोध नहीं किया। इन तीनों को 23 मार्च 1931 को फांसी दे दी गई। पूरा देश इससे आहत हो गया और दुख में डूब गया। स्थान-स्थान पर गांधीजी के विरुद्ध प्रदर्शन किए गए। 29 मार्च 1931 को कांग्रेस का जो अधिवेशन कराची में प्रारंभ हुआ उसमें इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया।

दूसरे गोलमेज सम्मेलन में गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में भाग लिया। डा. अंबेडकर ने दलित वर्गों का प्रतिनिधित्व करते हुए सम्मेलन में भाग लिया और यह मांग की कि जिस प्रकार अन्य अल्पसंख्यकों के लिए पृथक् निर्वाचक मंडल और आरक्षण हैं उसी प्रकार दलितों के लिए भी हो। गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे, जबकि मुसलमानों की मांगों के आगे समर्पण कर चुके थे। गांधीजी ने यह भी प्रयत्न किया कि मुसलमान उनके साथ आएं और डा. अंबेडकर का विरोध करें। अल्पसंख्यक समिति की अंतिम बैठक में कोई सहमति नहीं हो सकी और गांधीजी ने अन्य व्यक्तियों के साथ एक अध्यपेक्षा पर हस्ताक्षर किए जिससे ब्रिटेन के प्रधानमंत्री को मध्यस्थता करने की शक्ति दी गई। कांग्रेस और मुस्लिम लीग के बीच की खाई और बढ़ गई। कांग्रेस ने सविनय अवज्ञा आंदोलन पुनः प्रारंभ कर दिया।

SubQuestion No : 17

Q.17 उपरोक्त गद्यांश का उचित शीर्षक क्या है?

Ans　　1. सविनय अवज्ञा आंदोलन

　　　　2. भारतीय गोलमेज सम्मेलन का अधिवेशन

3. गांधीजी–अंबेडकर समझौता

4. मुस्लिम लीग

Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए:

जब सविनय अवज्ञा आंदोलन अपने शिखर पर था तब नवम्बर 1930 में भारतीय गोलमेज सम्मेलन का अधिवेशन प्रारंभ हुआ। इसमें कांग्रेस अनुपस्थित थी। पहला गोलमेज सम्मेलन सफल रहा। परिसंघ बनाने के पक्ष में सभी एकमत थे। सर तेजबहादुर सप्रू परिसंघ के समर्थक थे। बीकानेर के महाराजा और भोपाल के नवाब ने राजाओं की ओर से यह कहा कि वे परिसंघ में मिलने के लिए तैयार हैं। लीग के दोनों गुट, एक शफी वाला और दूसरा जिन्ना वाला, सहमत हो गए। किंतु सभी ने यह अनुभव किया कि कांग्रेस को सम्मिलित किया जाना चाहिए। वाइसराय लार्ड इर्विन और गांधीजी के बीच एक भेंट हुई और दोनों ने 5 मार्च 1931 को एक करार पर हस्ताक्षर किए।

महात्माजी आंदोलन वापिस लेने और गोलमेज सम्मेलन में सम्मिलित होने के लिए सहमत हो गए। इस करार की मिश्रित प्रतिक्रिया हुई। कुछ लोगों ने इस करार को सफल बताया क्योंकि वाइसराय बातचीत करने के लिए मेज पर आया था। दूसरों की आलोचना का यह आधार था कि भारतीयों को इससे कुछ भी प्राप्त नहीं हुआ। असंतोष का एक महत्वपूर्ण कारण यह भी था कि गांधीजी ने भगत सिंह, सुखदेव और राजगुरु इन तीन क्रांतिकारियों पर दया करके उन्हें फांसी नहीं देने के लिए वाइसराय से अनुरोध नहीं किया। इन तीनों को 23 मार्च 1931 को फांसी दे दी गई। पूरा देश इससे आहत हो गया और दुख में डूब गया। स्थान-स्थान पर गांधीजी के विरुद्ध प्रदर्शन किए गए। 29 मार्च 1931 को कांग्रेस का जो अधिवेशन कराची में प्रारंभ हुआ उसमें इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया।

दूसरे गोलमेज सम्मेलन में गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में भाग लिया। डा. अंबेडकर ने दलित वर्गों का प्रतिनिधित्व करते हुए सम्मेलन में भाग लिया और यह मांग की कि जिस प्रकार अन्य अल्पसंख्यकों के लिए पृथक् निर्वाचक मंडल और आरक्षण हैं उसी प्रकार दलितों के लिए भी हो। गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे, जबकि मुसलमानों की मांगों के आगे समर्पण कर चुके थे। गांधीजी ने यह भी प्रयत्न किया कि मुसलमान उनके साथ आएं और डा. अंबेडकर का विरोध करें। अल्पसंख्यक समिति की अंतिम बैठक में कोई सहमति नहीं हो सकी और गांधीजी ने अन्य व्यक्तियों के साथ एक अध्यपेक्षा पर हस्ताक्षर किए जिससे ब्रिटेन के प्रधानमंत्री को मध्यस्थता करने की शक्ति दी गई। कांग्रेस और मुस्लिम लीग के बीच की खाई और बढ़ गई। कांग्रेस ने सविनय अवज्ञा आंदोलन पुनः प्रारंभ कर दिया।

SubQuestion No : 18

Q.18 उपरोक्त गद्यांश के संदर्भ में कौन-सा कथन सही नहीं है?

Ans

1. भगत सिंह, सुखदेव और राजगुरु इन तीनों क्रांतिकारियों को 23 मार्च 1931 को फांसी दी गई थी।

2. गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे।

3. 29 मार्च 1931 को कांग्रेस का अधिवेशन कराची में प्रारंभ हुआ था।

4. दिसम्बर 1936 में भारतीय गोल मेज सम्मेलन का अधिवेशन प्रारंभ हुआ।

Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए:

जब सविनय अवज्ञा आंदोलन अपने शिखर पर था तब नवम्बर 1930 में भारतीय गोलमेज सम्मेलन का अधिवेशन प्रारंभ हुआ। इसमें कांग्रेस अनुपस्थित थी। पहला गोलमेज सम्मेलन सफल रहा। परिसंघ बनाने के पक्ष में सभी एकमत थे। सर तेजबहादुर सप्रू परिसंघ के समर्थक थे। बीकानेर के महाराजा और भोपाल के नवाब ने राजाओं की ओर से यह कहा कि वे परिसंघ में मिलने के लिए तैयार हैं। लीग के दोनों गुट, एक शफी वाला और दूसरा जिन्ना वाला, सहमत हो गए। किंतु सभी ने यह अनुभव किया कि कांग्रेस को सम्मिलित किया जाना चाहिए। वाइसराय लार्ड इर्विन और गांधीजी के बीच एक भेंट हुई और दोनों ने 5 मार्च 1931 को एक करार पर हस्ताक्षर किए।

महात्माजी आंदोलन वापिस लेने और गोलमेज सम्मेलन में सम्मिलित होने के लिए सहमत हो गए। इस करार की मिश्रित प्रतिक्रिया हुई। कुछ लोगों ने इस करार को सफल बताया क्योंकि वाइसराय बातचीत करने के लिए मेज पर आया था। दूसरों की आलोचना का यह आधार था कि भारतीयों को इससे कुछ भी प्राप्त नहीं हुआ। असंतोष का एक महत्वपूर्ण कारण यह भी था कि गांधीजी ने भगत सिंह, सुखदेव और राजगुरु इन तीन क्रांतिकारियों पर दया करके उन्हें फांसी नहीं देने के लिए वाइसराय से अनुरोध नहीं किया। इन तीनों को 23 मार्च 1931 को फांसी दे दी गई। पूरा देश इससे आहत हो गया और दुख में डूब गया। स्थान-स्थान पर गांधीजी के विरुद्ध प्रदर्शन किए गए। 29 मार्च 1931 को कांग्रेस का जो अधिवेशन कराची में प्रारंभ हुआ उसमें इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया।

दूसरे गोलमेज सम्मेलन में गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में भाग लिया। डा. अंबेडकर ने दलित वर्गों का प्रतिनिधित्व करते हुए सम्मेलन में भाग लिया और यह मांग की कि जिस प्रकार अन्य अल्पसंख्यकों के लिए पृथक् निर्वाचक मंडल और आरक्षण हैं उसी प्रकार दलितों के लिए भी हो। गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे, जबकि मुसलमानों की मांगों के आगे समर्पण कर चुके थे। गांधीजी ने यह भी प्रयत्न किया कि मुसलमान उनके साथ आएं और डा. अंबेडकर का विरोध करें। अल्पसंख्यक समिति की अंतिम बैठक में कोई सहमति नहीं हो सकी और गांधीजी ने अन्य व्यक्तियों के साथ एक अध्यपेक्षा पर हस्ताक्षर किए जिससे ब्रिटेन के प्रधानमंत्री को मध्यस्थता करने की शक्ति दी गई। कांग्रेस और मुस्लिम लीग के बीच की खाई और बढ़ गई। कांग्रेस ने सविनय अवज्ञा आंदोलन पुनः प्रारंभ कर दिया।

SubQuestion No : 19

Q.19 उपरोक्त गद्यांश के अनुसार कांग्रेस का वह कौन-सा अधिवेशन था, जिसमें भगत सिंह, सुखदेव और राजगुरु इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया था।

Ans 1. कराची अधिवेशन

2. लाहौर अधिवेशन

3. दिल्ली अधिवेशन

4. मुंबई अधिवेशन

Question ID : 9599674975

Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए:

जब सविनय अवज्ञा आंदोलन अपने शिखर पर था तब नवम्बर 1930 में भारतीय गोलमेज सम्मेलन का अधिवेशन प्रारंभ हुआ। इसमें कांग्रेस अनुपस्थित थी। पहला गोलमेज सम्मेलन सफल रहा। परिसंघ बनाने के पक्ष में सभी एकमत थे। सर तेजबहादुर सप्रू परिसंघ के समर्थक थे। बीकानेर के महाराजा और भोपाल के नवाब ने राजाओं की ओर से यह कहा कि वे परिसंघ में मिलने के लिए तैयार हैं। लीग के दोनों गुट, एक शफी वाला और दूसरा जिन्ना वाला, सहमत हो गए। किंतु सभी ने यह अनुभव किया कि कांग्रेस को सम्मिलित किया जाना चाहिए। वाइसराय लार्ड इर्विन और गांधीजी के बीच एक भेंट हुई और दोनों ने 5 मार्च 1931 को एक करार पर हस्ताक्षर किए।

महात्माजी आंदोलन वापिस लेने और गोलमेज सम्मेलन में सम्मिलित होने के लिए सहमत हो गए। इस करार की मिश्रित प्रतिक्रिया हुई। कुछ लोगों ने इस करार को सफल बताया क्योंकि वाइसराय बातचीत करने के लिए मेज पर आया था। दूसरों की आलोचना का यह आधार था कि भारतीयों को इससे कुछ भी प्राप्त नहीं हुआ। असंतोष का एक महत्वपूर्ण कारण यह भी था कि गांधीजी ने भगत सिंह, सुखदेव और राजगुरु इन तीन क्रांतिकारियों पर दया करके उन्हें फांसी नहीं देने के लिए वाइसराय से अनुरोध नहीं किया। इन तीनों को 23 मार्च 1931 को फांसी दे दी गई। पूरा देश इससे आहत हो गया और दुख में डूब गया। स्थान-स्थान पर गांधीजी के विरुद्ध प्रदर्शन किए गए। 29 मार्च 1931 को कांग्रेस का जो अधिवेशन कराची में प्रारंभ हुआ उसमें इन तीनों की वीरता और त्याग की प्रशंसा करते हुए एक संकल्प पारित किया गया।

दूसरे गोलमेज सम्मेलन में गांधीजी ने कांग्रेस के एकमात्र प्रतिनिधि के रूप में भाग लिया। डा. अंबेडकर ने दलित वर्गों का प्रतिनिधित्व करते हुए सम्मेलन में भाग लिया और यह मांग की कि जिस प्रकार अन्य अल्पसंख्यकों के लिए पृथक् निर्वाचक मंडल और आरक्षण हैं उसी प्रकार दलितों के लिए भी हो। गांधीजी अंबेडकर से समझौता करने के लिए तैयार नहीं थे, जबकि मुसलमानों की मांगों के आगे समर्पण कर चुके थे। गांधीजी ने यह भी प्रयत्न किया कि मुसलमान उनके साथ आएं और डा. अंबेडकर का विरोध करें। अल्पसंख्यक समिति की अंतिम बैठक में कोई सहमति नहीं हो सकी और गांधीजी ने अन्य व्यक्तियों के साथ एक अध्यपेक्षा पर हस्ताक्षर किए जिससे ब्रिटेन के प्रधानमंत्री को मध्यस्थता करने की शक्ति दी गई। कांग्रेस और मुस्लिम लीग के बीच की खाई और बढ़ गई। कांग्रेस ने सविनय अवज्ञा आंदोलन पुनः प्रारंभ कर दिया।

SubQuestion No : 20

Q.20 उपरोक्त गद्यांश के अनुसार भगत सिंह, सुखदेव और राजगुरु तीनों क्रांतिकारियों को फांसी कब दी गई थी?

Ans 1. 30 मार्च 1930

2. 23 मार्च 1931

3. 23 मार्च 1921

4. 5 मार्च 1931

Question ID : 9599674973

Section : **Discipline1**

Q.1 **Coefficient of softening for clay is:**

Ans 1. One

2. Zero

3. Two

4. Cannot be determined

Question ID : 9599674983

Q.2 **According to IS 456 Clause 13.5.1, The period of curing of concrete depends on:**

Ans 1. Coarse aggregates.

2. Density of cement.

3. Fine aggregates.

4. Type of Cement used.

Q.3 **The transparent crystal of quartz is known as:**

Ans 1. Hornstone

2. Anorite

3. Pumice

4. Rock crystal

Q.4 **IS 287-1993 specifies:**

Ans 1. Recommendations for Maximum moisture content of timber.

2. Recommendations for Maximum moisture content of concrete.

3. Recommendations for Maximum moisture content of fine aggregates.

4. Recommendations for Maximum moisture content of brick.

Q.5 **A form of Bitumen that is obtained by fluxing asphaltic bitumen in presence of some suitable liquid distillates of coal tar or petroleum is:**

Ans 1. Cut-back bitumen.

2. Bitumen emulsion.

3. Plastic bitumen.

4. Blown bitumen.

Q.6 **Pick the correct statement among the following sentences.**

Ans 1. Both: Adulterated cement does not change its colour even after heating it to high temperature and Physical tests for cement are carried out at 38˚C

2. Adulterated cement does not change its colour even after heating it to high temperature

3. Adulterated cement changes its colour after heating it to high temperature.

4. Physical tests for cement are carried out at 38˚C

Q.7 **At a construction site, the reduced level of ground is 100 m and reduced level for bottom of footing is 98 m. The quantity of earthwork in excavation for 10 number of square footing of 2 m side is:**

Ans 1. 400 cu.m

2. 40 cu.m

3. 80 cu.m

4. 800 cu.m

Q.8 **Which of the following is correct with respect to Vicat apparatus?**

Ans 1. It has 10 mm diameter needle for normal consistency.

2. It has 10 cm diameter needle for normal consistency.

3. It has 5 cm diameter needle for final set.

4. It has 1 cm diameter needle for initial set.

Question ID : **9599674985**

Q.9 **In earthwork for roads, if at a chainage point two reduced levels are recorded then the ground is considered as:**

Ans 1. Level ground

2. Vertical drop

3. Upward sloping

4. Downward sloping

Question ID : **9599674989**

Q.10 **IS 4101-1967-Part 1 covers the specifications for_____.**

Ans 1. Stone facing works

2. Pre stressed concrete

3. Brickwork

4. Steel tubular scaffolding

Question ID : **9599674978**

Q.11 **The book value of a building at the end of its utility period is termed as:**

Ans 1. Purchase value

2. Scrap value

3. Assessed value

4. Market value

Question ID : **9599674990**

Q.12 **In a road embankment work, the reduced level of formation bed at Zero m chainage is 107 m. The road is supposed to have a downward gradient of 1 in 100. Determine the reduced level of formation bed at 1000 m chainage**

Ans 1. 107 m

2. 97 m

3. 100 m

4. 117 m

Question ID : **9599674992**

Q.13 **Timber quantity for chaukhat (frame) of 10 cm x 12 cm cross section for a 1.5 m x 1.0 m window is:**

Ans 1. 0.0504 cu. m

2. 0.060 cu. m

3. 0.030 cu.m

4. 0.0552 cu. m

Question ID : **9599674997**

Q.14 Identify the type of joint in stone masonry given in Image:

Ans 1. Butt joint

2. Rusticated joint

3. Dowel joint

4. Plugged joint

Question ID : **9599674984**

Q.15 The heights of embankment at the two ends of 20 m portion of road is 1.00 m and 1.60 m, the formation width is 10 m and side slope 2 : 1 (horizontal:vertical). Calculate the quantity of earthwork for 20 m length portion of road by using 'mid-section formula'

Ans 1. 327.6 cu.m

2. 293.8 cu.m

3. 328.8 cu.m

4. 331.2 cu. m

Question ID : **9599674996**

Q.16 Pigment volume concentration number (PVCN) is the:

Ans 1. Volume of non volatile vehicle in the paint.

2. Ratio of volume of nonvolatile vehicle in the paint to the volume of base pigment in the paint.

3. Volume of the paint.

4. Ratio of volume of base pigment in the paint to the volume of non volatile vehicle in the paint.

Question ID : **9599674982**

Q.17 The cost of boring a 60mm diameter casing pipe for a tube well is as below:

1) For first 20 m depth – Rs. 70 per meter
2) Below 20 m to 30 m depth – Rs. 110 per meter
3) Below 30 m to 40 m depth – Rs. 150 per meter

The total cost of boring a 60 mm diameter casing pipe to a depth of 40 m is:

Ans 1. Rs. 4400

2. Rs. 6000

3. Rs. 4000

4. Rs. 2800

Question ID : **9599674995**

Q.18 Calculate the quantity of brickwork for a 30 cm thick semi-circular arch of 2.5 m clear span, take breadth of wall as 40 cm.

Ans 1. 0.528 cu. m.

2. 0.942 cu. m.

3. 0.396 cu. m.

4. 0.471 cu. m.

Question ID : **9599674993**

Q.19 The portion of a brick obtained by cutting a brick lengthwise into two portions is known as:

Ans 1. Queen closer

2. Mitred closer

3. Bevelled closer

4. King closer

Q.20 The yearly instalment of sinking fund for a building costing Rs 5,00,000/- whose future life is 20 years is equal to _____. Take sinking fund factor for 20 years and 5% rate as 0.0302

Ans 1. Rs. 1510

2. Rs. 30200

3. Rs. 15100

4. Rs. 1250

Section : **Discipline2**

Q.1 In reference to permeability of soils, which of the following is incorrect?

Ans 1. Permeability is directly proportional to the unit weight of water and inversely proportional to it's viscosity

2. Permeability varies as the square of grain size

3. Permeability is proportional to the square of the square of the net voids ratio

4. Degree of saturation has no effect on permeability

Q.2 A sample of soil failed in a tri axial test under a deviator stress of 200 kpa, when the confining pressure had been 100 kpa, if for the same sample, what would have been the deviator stress at failure if the confining pressure had been 200 kpa, assume c=0.

Ans 1. 550 kpa

2. 400 kpa

3. 450 kpa

4. 600 kpa

Q.3 To locate a rising gradient line of 1 in 20 from a point 'a' on 100 m contour on the map at a scale of 1 : 1000 with contour interval of 5 m, the radius of the arc be drawn is:

Ans 1. 100 cm

2. 10 m

3. 0.4 cm

4. 10 cm

Q.4 Which of the following does not have any relation to quick sand?

Ans 1. Effective pressure becomes zero

2. It is a type of sand wherein void ratio is 1

3. Cohesionless soil loses all its shear strength

4. soil particles have a tendency to move up in the direction of flow

Question ID : **9599675014**

Q.5 A levelling station is a point where_____.

Ans   1. Levelling staff is held

2. Instrument is fixed

3. Observer stands

4. Intermediate point between instrument and staff position

Question ID : **9599675005**

Q.6 An angle is measured with the help of theodolite by repetition method. Which of the following error is not eliminated in this method.

Ans   1. Error due to slip

2. The error due to eccentricity of Vernier

3. Error due to inaccurate graduation

4. Error in line of collimation adjustment

Question ID : **9599675001**

Q.7 The tangent length for a simple curve is 10 m. the chainage of point of intersection is 344.465 m. The chainage of starting point of curve is:

Ans   1. 354.465 m

2. 334.465 m

3. 364.465 m

4. 324.465 m

Question ID : **9599675004**

Q.8 An art of determining the relative elevations of points on, above and below ground is known as:

Ans   1. Levelling

2. Chain surveying

3. Plane table surveying

4. Compass surveying

Question ID : **9599674998**

Q.9 The mass specific gravity of a fully saturated specimen of clay having a water content of 30.5% is 1.96. On oven drying, the mass specific gravity drops to 1.60. The specific gravity of clay is:

Ans   1. 3.123

2. 3.321

3. 3.432

4. 3.234

Question ID : **9599675011**

Q.10 In Terzaghi's piston and spring analogy, the grain structure was represented by:

Ans   1. water

2. piston

3. cylinder

4. spring

Question ID : **9599675016**

Q.11 Total weight of a soil mass per unit of it's total volume is termed as:

Ans   1. Submerged unit weight

2. Unit weight of solids

3. Dry unit weight

4. Bulk unit weight

Question ID : **9599675009**

Q.12 The correct relationship between Specific gravity (G), Degree of saturation (S), Void ratio (e), Bulk unit weight (Y) and Unit weight of water (Yw) among the following is

Ans   1.

2.

3.

4.

Question ID : **9599675010**

Q.13 An optical instrument used to establish intermediate points on a straight joining two distant points without having to sight from one of them is:

Ans   1. Tape

2. Sprit level

3. Compass

4. Line ranger

Question ID : **9599674999**

Q.14 The height of the tower above horizontal line of collimation of theodolite fixed at a horizontal distance of 30√3m from it is 30 m. Then angle of inclination of theodolite is:

Ans   1. 30°

2. 90°

3. 60°

4. 45°

Question ID : **9599675006**

Q.15 When, there is static equilibrium, Neutral stress is defined as:

Ans   1. Stress due to compaction of soil

2. Stress due to naturally overlying soil

3. Stress at the middle of the soil layer

4. stress carried by the pore water

Question ID : **9599675015**

Q.16 Determine the chainage of point B, if chainage of point A is 2093.335 m and the horizontal distance between AB is 237 m.

Ans
1. 2320.335 m

2. 320.335 m

3. 2330.335 m

4. 330.335 m

Question ID : **9599675000**

Q.17 The maximum water content at which a reduction in water content will not cause a decrease in the volume of a soil mass is called:

Ans
1. Plastic limit

2. Shrinkage limit

3. Plasticity index

4. Liquid limit

Question ID : **9599675013**

Q.18 Soils transported by gravitational forces are termed as:

Ans
1. Alluvial soils

2. Loess

3. Glacial deposit

4. Colluvial soils

Question ID : **9599675008**

Q.19 To determine the height of instrument of a level, back sight was taken on the inverted staff held at bottom of the lintel. If RL of Bench mark is 354.445 m and staff reading is 1.005 m the height of instrument is:

Ans
1. 353.440 m

2. 355.450 m

3. 355.445 m

4. 353.445 m

Question ID : **9599675002**

Q.20 In a specific gravity test, the following observation were made:

Weight of dry soil : 1.04 N
Weight of bottle + soil + water : 5.38 N
Weight of bottle + water : 4.756 N

Also while obtaining the weight 5.38 N, 3 ml of air remained entrapped in the suspension, the corrected value of specific gravity is:

Ans
1. 2.694

2. 1.759

3. 3.968

4. 2.215

Question ID : **9599675012**

Section : **Discipline3**

Q.1 **1% of error in height of water over the notch produce how much error in discharge over triangular notches?**

Ans 1. 3.50 percent

2. 2 percent

3. 2.50 percent

4. 1 percent

Question ID : **9599675027**

Q.2 **Which device has less cost of installation for measuring rate of flow of fluid through pipe?**

Ans 1. Orifice meter

2. Pitot meter

3. Venturi meter

4. Manometer

Question ID : **9599675023**

Q.3 **Which of the following is not classified based on head at the inlet in a turbine?**

Ans 1. High head turbine

2. Medium head turbine

3. Low head turbine

4. Mixed head turbine

Question ID : **9599675020**

Q.4 **In irrigation engineering, development of desert area factor comes under which case?**

Ans 1. Necessity of irrigation

2. Ill-effects of irrigation

3. Benefits of irrigation

4. Types of irrigation

Question ID : **9599675030**

Q.5 **Which of the following is an ill-effect of irrigation?**

Ans 1. Protection from famine

2. Self-sufficiency in food

3. Damp climate

4. Recreation

Question ID : **9599675032**

Q.6 **For a 10% error in the estimation of mean rainfall and for a coefficient of variation of the rainfall (Cv) is equal to 30, Find the number of optimal stations, N?**

Ans 1. 3

2. 12

3. 6

4. 9

Question ID : 9599675035

Q.7 Under road margins, which of the following are provided near public conveniences with guide maps to enable drivers to stop clear off the carriageway?

Ans 1. Drive ways

2. Frontage roads

3. Bus bays

4. Lay bys

Question ID : 9599675037

Q.8 The centre of pressure on submerged surfaces is calculated by using:

Ans 1. Principle of moments

2. Principle conservation of energy

3. Bernoulli's principle

4. Conservation of pressure

Question ID : 9599675021

Q.9 What type of flow it is if water flowing in a channel has a cross sectional area - 50 m^2 top width - 5 m, velocity of 0.1 m/s and viscosity of 0.625 Ns/m^2?

Ans 1. Transition flow

2. Turbulent flow

3. Steady flow

4. Laminar flow

Question ID : 9599675028

Q.10 What is not required for a triangular notch?

Ans 1. Coefficient of discharge

2. Ventilation

3. Head of water

4. Angle of notch

Question ID : 9599675026

Q.11 A rectangular plate, 6 m long 4 m wide, makes 300 with respect to free surface of water and its top edge is at 3 m below the free surface. Calculate the depth of centre of gravity of plate from free water surface:

Ans 1. 3.5 m

2. 4.5 m

3. 4.0 m

4. 5.0 m

Question ID : 9599675022

Q.12 In which method, Irrigation water is useful for row crops?

Ans 1. Sub surface irrigation method

2. Furrow method

3. Sprinkler method

4. Flooding method

Question ID : 9599675033

Q.13 Natural syphon type rain guage is also known as _____.

Ans   1. Float type gauge

2. Weighing bucket type

3. Tipping bucket type

4. Syphon rain gauge

Question ID : **9599675034**

Q.14 The velocity of water in a pipe is measured using a pitot tube, calculate the velocity of flow by taking, Stagnation pressure head as 7 m, Static pressure head as 6 m & coefficient of tube as 0.98.

Ans   1. 8.61

2. 6.58

3. 2.56

4. 4.34

Question ID : **9599675024**

Q.15 Under Benefits of Irrigation,

Statement 1:- yield of crops can be increased by irrigation even in the period of low rainfall.
Statement 2:- optimum use of water is possible by irrigation to obtain maximum output.

Ans   1. Both are false.

2. Statement 1 is true and statement 2 is false.

3. Both are true.

4. Statement 1 is false and statement 2 is true.

Question ID : **9599675031**

Q.16 In highway cross sectional elements, what is the minimum shoulder width recommended by the IRC?

Ans   1. 1.5 m

2. 2.5 m

3. 3.0 m

4. 2.0 m

Question ID : **9599675036**

Q.17 What is the dimension of Chezy's constant?

Ans   1. $L^{-1}T^{-1}$

2. $L^{1/2}T^{-1}$

3. LT

4. LT^{-1}

Question ID : **9599675029**

Q.18 A square footing 2.5 m X 2.5 m is built in a homogenous bed of sand of unit weight 20 kN/m^3 and having angle of shearing resistance of 36 degree, the depth of the base of the footing is 1.5 m below the ground surface. The safe load the footing can carry with a factor of safety of 3 against complete shear failure is (use Terzaghi's analysis)

Ans   1. 874 kN/m^2

2. 676 kN/m^2

3. 982 kN/m^2

4. 768 kN/m^2

Question ID : 9599675018

Q.19 Which of the following is true?

Ans   1. Hydraulic gradient line is constant in the direction of flow.

2. Hydraulic gradient line always drops.

3. Hydraulic gradient line always rises in the direction of flow.

4. Hydraulic gradient line may or may not change in the direction of flow.

Question ID : 9599675025

Q.20 Universal gas constant is equal to:

Ans   1. 6545 J/kg-mole K

2. 5974 J/kg-mole K

3. 9686 J/kg-mole K

4. 8314 J/kg-mole K

Question ID : 9599675019

Section : **Discipline4**

Q.1 When the ambient lapse rate is greater than the dry adiabatic lapse rate, the atmosphere is said to be:

Ans   1. Sub adiabatic lapse rate

2. Super-adiabatic lapse rate

3. Negative adiabatic lapse rate

4. Adiabatic lapse rate

Question ID : 9599675052

Q.2 In parking surveys, the total number of vehicles parked in an area at a specified moment is known as:

Ans   1. Parking accumulation

2. Parking index

3. Parking turn over

4. Parking volume

Question ID : 9599675039

Q.3 In order to introduce the centrifugal force and super elevation gradually in the geometric design of highways,_____ curves should be introduced between the straight and circular curves.

Ans
1. Summit curves
2. Valley curve
3. Transition curve
4. Vertical curve

Question ID : **9599675040**

Q.4 **Which type of pavement have low or negligible flexural strength?**

Ans
1. Rigid pavement
2. Flexible pavement
3. Semi rigid pavement
4. Both Rigid pavement and Semi rigid pavement

Question ID : **9599675041**

Q.5 **According to friction coefficient test, as per MORTH specifications, the polished stone value of coarse aggregates used in bituminous concrete and semi dense bituminous concrete surfacing of roads should not be less than_____**

Ans
1. 55
2. 45
3. 30
4. 50

Question ID : **9599675042**

Q.6 **Below figure represents:**

Ans
1. Cross section of two lane city road in built up area
2. Cross section of VR or ODR in embankment in rural area
3. Cross section of MDR in cutting in rural area
4. Cross section of NH or SH in embankment in rural area

Question ID : **9599675038**

Q.7 **Which of the following statement/s is/are correct with respect to carbon monoxide?**

a) The affinity of CO for hemoglobin is 210 times greater than that of oxygen.
b) Excess of CO result in death by asphyxiation.

Ans
1. Both statements are false.
2. Only statement b is true.
3. Both statements are true.
4. Only statement a is true.

Question ID : **9599675057**

Q.8 **Consider the following statements with respect to circular sewer.**

A. It offers less opportunities for deposits.
B. It is the most economical section since it utilizes minimum quantity of material.

Ans
1. Only statement A is true.
2. Both statements are true.
3. Both statements are false.

4. Only statement B is true.

Question ID : 9599675051

Q.9 **In vacuum flotation unit, the vacuum pressure present in the aerated sewage cause the air bubbles to:**

Ans   1. To expand and move downwards

     2. To contract and move upwards

     3. To contract and move downwards

     4. To expand and move upwards

Question ID : 9599675054

Q.10 **Grease and oil traps are specially built chambers on the sewers to exclude grease and oil from wastewater _____.**

Ans   1. Only at the junction of oil and grease chamber and sewer line

     2. Both At the exit of sewer line and Only at the junction of oil and grease chamber and sewer line

     3. Before the wastewater enter into the sewer line

     4. At the exit of sewer line

Question ID : 9599675047

Q.11 **The City in India that experienced the waterborne outbreak of infectious hepatitis in 1955-56 is:**

Ans   1. Bangalore

     2. Mumbai

     3. New Delhi

     4. Chennai

Question ID : 9599675055

Q.12 **Identify the flow control device shown in image:**

Ans   1. Parshall flume

     2. Proportional weir

     3. Sutro weir

     4. Notch

Question ID : 9599675053

Q.13 **Under bitumen tests, the softening point of various bitumen grades used in paving jobs vary between _____.**

Ans   1. 75° to 100°

     2. 30° to 50°

     3. 50° to 75°

     4. 35° to 70°

Question ID : 9599675044

Q.14 **The maximum quantity of water that can be guaranteed during a critical dry period is known as:**

Ans   1. Critical yield

2. Average yield

3. Firm yield

4. Secondary yield

Question ID : **9599675048**

Q.15 In continuous flow sedimentation tank the quantity of water passing per hour (or per day) per unit horizontal area is known as:

Ans   1. Overflow rate

2. Both Overflow rate and Surface loading

3. Surface loading

4. Flowing through period

Question ID : **9599675056**

Q.16 In angularity number test, the angularity number for aggregates used in construction generally ranges from _____.

Ans   1. 5 to 10

2. 10 to 100

3. 0 to 11

4. 0 to 15

Question ID : **9599675043**

Q.17 Identify the layout of water distribution system given in image:

Ans   1. Radial system

2. Reticulation system

3. Circular system

4. Tree system

Question ID : **9599675049**

Q.18 The presence of lead can be detected by six drops of sulphuric acid in a glass of water, which will yield:

Ans   1. White precipitate

2. Brown precipitate

3. Red precipitate

4. Yellow precipitate

Question ID : **9599675050**

Q.19 Find out the type of traffic sign given form the below image:

Ans   1. Reassurance sign

2. Destination sign

3. Advance direction sign

4. Direction sign

Question ID : 9599675046

Q.20 In type of road markings, Marking indicated for pedestrian crossings comes under:

Ans 1. Object markings

2. Carriage way markings

3. Longitudinal pavement marking

4. Both Carriage way markings and Object markings

Question ID : **9599675045**

Section : **Discipline5**

Q.1 Identify the correct statement/s with respect to spacing of reinforcement:

A. Spacing of stirrups in a RCC rectangular beam is increased at the centre of the beam.
B. Spacing of stirrups in a RCC rectangular beam is increased at the ends of the beam.

Ans 1. Statement A is true B is false.

2. Both statements are true.

3. Statement B is true A is false.

4. Both statements are false.

Question ID : **9599675074**

**Q.2 Calculate the moment of inertia of a hallow section shown in figure with respect to X-X' axis,
Take D=20 mm and d=10 mm.**

Ans 1. 8469.72 mm^4

2. 6472.15 mm^4

3. 7363.10 mm^4

4. 5647.56 mm^4

Question ID : **9599675072**

Q.3 Steel beam theory is used for the design of _____.

Ans 1. Cantilever beams by ignoring compressive stress in concrete

2. Singly reinforced beams by ignoring compressive stress in concrete

3. Two way slabs by ignoring compressive stress in concrete

4. Doubly reinforced beams by ignoring compressive stress in concrete

Question ID : **9599675075**

**Q.4 According to IS code, the time elapsed between moment at which water is added to the
cement to the moment at which cement starts to loose its plasticity shall not be less than**

Ans 1. 30 minutes

2. 150 minutes

3. 90 minutes

4. 50 minutes

Question ID : **9599675067**

Q.5 As per IS-456 : 2000, Maximum water cement ratio of concrete used in Reinforced cement concrete structures exposed to moderate exposure condition is_____.

Ans
1. 0.55
2. 0.45
3. 0.5
4. 0.4

Question ID : 9599675063

Q.6 As per BIS code, the acceptable indoor noise level in libraries is:

Ans
1. 65 dB
2. 30 dB
3. 45 dB
4. 75 dB

Question ID : 9599675059

Q.7 Which receptor organ for hearing is destructed by noise pollution?

Ans
1. Aorta
2. The organ of corti
3. Nasal bone
4. Arterial

Question ID : 9599675060

Q.8 Hooke's law equally holds good for:

Ans
1. Tension as well as shear
2. Tension as well as torsion
3. Tension as well as compression
4. Tension as well as bending

Question ID : 9599675068

Q.9 In continuous flow sedimentation tanks the actual detention period used in practice should be:

Ans
1. Equal to 3/4th the theoretical detention period.
2. Less than Half the theoretical detention period.
3. More than twice the theoretical detention period.
4. Equal to 1/4th the theoretical detention period.

Question ID : 9599675058

Q.10 A steel rod 1.0 m long is subjected to a tensile force of 20 kN. Calculate the cross sectional area of rod, if it experiences an elongation of 1.5 mm. Take modulus of elasticity for the rod material is 200 Gpa.

Ans
1. 66.66 mm^2
2. 78.25 mm^2
3. 96.11 mm^2
4. 50.25 mm^2

Question ID : 9599675069

Q.11 Which of the following is a secondary air pollutant?

Ans   1. Nitrogen oxide

2. Carbon dioxide

3. Suspended particulate matter

4. Ozone

Question ID : **9599675061**

Q.12 The minimum area of longitudinal reinforcement in a RCC column of size 200 mm x 400 mm, shall not be less than_____.

Ans   1. 800 mm^2

2. 640 mm^2

3. 350 mm^2

4. 1200 mm^2

Question ID : **9599675076**

Q.13 Maximum number of points of contra flexure in a cantilever beam can be:

Ans   1. 0

2. 6

3. 9

4. 3

Question ID : **9599675070**

Q.14 If the aggregate cement ratio of a concrete mix is increased:

A. The workability of concrete Increases.
B. The workability of concrete decreases.

Identify the correct statement:

Ans   1. Statement A is true B is false

2. Statement B is true A is false

3. Both statements are false

4. Both statements are true

Question ID : **9599675062**

Q.15 To ensure the lateral stability in a simply supported beam, the clear distance between the lateral restraints should not exceed_____.

Ans   1. 25 times the breadth of the compression face midway between the lateral restraints

2. 60 times the breadth of the compression face midway between the lateral restraints

3. 80 times the breadth of the compression face midway between the lateral restraints

4. 40 times the breadth of the compression face midway between the lateral restraints

Question ID : **9599675077**

Q.16 Which of the following statement is incorrect with respect to process of manufacturing concrete?

Ans   1. The ground surface on which the concrete is placed must be free from loose earth.

2. Platform vibrators are used in the manufacture of large prefabricated concrete elements.

3. Machine mixing is not efficient and economical for medium scale mass concrete work

4. Weigh batching is better method than volume batching for proportioning the materials.

Question ID : **9599675065**

Q.17 **The estimated water content to produce a concrete sample with workability 50 mm is 186 litres. Calculate the extra volume of water to be added to increase the workability from 50 mm to 125 mm.**

Ans 1. 9.00 litres

2. 18.97 litres

3. 12.56 litres

4. 16.74 litres

Question ID : **9599675064**

Q.18 **To avoid the sliding of dam, the force of friction between the dam and soil, is at least_____times the total water pressure per meter length.**

Ans 1. 2.0

2. 1.5

3. 3.0

4. 2.5

Question ID : **9599675073**

Q.19 **Calculate the moment of inertia of a rectangular lamina with respect to X axis, Take 20 mm width along X axis and 40 mm depth along Y axis. The intersection point of X and Y axis lies on centroid point of given lamina.**

Ans 1. $26,666.67 \text{ mm}^4$

2. $4,26,666.67 \text{ mm}^4$

3. 4266.67 mm^4

4. $1,06,666.67 \text{ mm}^4$

Question ID : **9599675071**

Q.20 **Which of the following IS code provides "recommended practice for cold weather concreting"?.**

Ans 1. IS 4031 (part-II)-1999

2. IS 2386 (part-II)-1981

3. IS 10262-2009

4. IS 7861 (part-II)-1981

Question ID : **9599675066**