

Question paper of Project Assistant (Civil)

Cochin Shipyard Limited

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :

Online Test for the post of Project Assistant
Civil 7th November 2024 Shift 2

Subject Name :

Online Test for the post of Project Assistant
Civil

Creation Date :

2024-11-07 15:23:56

Duration :

135

Total Marks :

100

Display Marks:

No

Share Answer Key With Delivery Engine :

No

Change Font Color :

No

Change Background Color :

No

Change Theme :

No

Help Button :

No

Show Reports :

No

Show Progress Bar :

No

General

Group Number :

1

Group Id :

31808921

Group Maximum Duration :

34

Group Minimum Duration :

34

Show Attended Group? :

No

Edit Attended Group? :

No

Break time :

0

Group Marks :

30

General

Section Id :

31808921

Section Number :

1

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions :	30
Number of Questions to be attempted :	30
Section Marks :	30
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808921
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 318089501 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is true?

Options :

1. ✖ All unwritten contracts are agreements
2. ✖ All agreements are contracts
3. ✔ Only legally enforceable agreements are contracts
4. ✖ Only written agreements are contracts

Question Number : 2 Question Id : 318089502 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Article 44 of the Indian Constitution provides for

Options :

1. ✔ Uniform Civil Code for citizens
2. ✖ Right to property
3. ✖ Fundamental duties
4. ✖ Organisation of village panchayats

Question Number : 3 Question Id : 318089503 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Winner of 2022 FIFA World Cup held at Qatar

Options :

1. ✖ France
2. ✔ Argentina
3. ✖ Portugal
4. ✖ Brazil

Question Number : 4 Question Id : 318089504 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Cochin Shipyard Limited comes under

Options :

1. ✖ Ministry of Commerce and Industry

2. ✖ Ministry of Defence
3. ✔ Ministry of Ports, Shipping and Waterways
4. ✖ Ministry of Heavy Industry and Public Enterprises

Question Number : 5 Question Id : 318089505 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which river of India is called Vridha Ganga?

Options :

1. ✖ Krishna
2. ✔ Godavari
3. ✖ Kaveri
4. ✖ Narmada

Question Number : 6 Question Id : 318089506 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

"Fire" is related to "Ashes" in the same way "Explosion" is related to

Options :

1. ✖ Sound
2. ✔ Debris
3. ✖ Explosive
4. ✖ Flame

Question Number : 7 Question Id : 318089507 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the word which is least like other words

Options :

1. ✖ Wheat
2. ✔ Sugar
3. ✖ Rice
4. ✖ Maize

Question Number : 8 Question Id : 318089508 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In certain code HIMACHAL is coded as JKOCEJCN. How ORISSA is coded?

Options :

1. ✖ QTKUVC
2. ✖ TKUPC
3. ✔ QTKUUC
4. ✖ QTKUUB

Question Number : 9 Question Id : 318089509 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the odd one out.

Options :

1. ✖ Dollar
2. ✖ Euro
3. ✖ Peso
4. ✔ Ounce

Question Number : 10 Question Id : 318089510 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Pointing to a boy in the photograph, Monika said, "His sister is the only daughter of my father". How is the boy related to Monika's father?

Options :

1. ✖ Nephew
2. ✖ Son in law
3. ✔ Son
4. ✖ Brother

Question Number : 11 Question Id : 318089511 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?

Options :

1. ✖ 15
2. ✔ 18
3. ✖ 11
4. ✖ 13

Question Number : 12 Question Id : 318089512 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Value of 102×98 is:

Options :

1. ✖ 9786
2. ✖ 9896
3. ✖ 9986
4. ✔ 9996

Question Number : 13 Question Id : 318089513 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

How many prime numbers are less than 30?

Options :

- 1. ✖ 8
- 2. ✔ 10
- 3. ✖ 12
- 4. ✖ 14

Question Number : 14 Question Id : 318089514 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The total weight of 45 boxes loaded in a truck was 1000 kgs. 3 over sized boxes weighing 51 kg, 54 kg and 55 kg were removed from the truck. Find the average weight of the remaining boxes

Options :

- 1. ✖ 18 kg
- 2. ✔ 20 kg
- 3. ✖ 27 kg
- 4. ✖ 46 kg

Question Number : 15 Question Id : 318089515 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Raju & Tom together can do a work in 10 days. Tom & Appu together can do it in 12 days. Appu & Raju together can do it in 15 days. In how many days will they finish it if all the three work together ?

Options :

- 1. ✔ 8 days
- 2. ✖ 4 days
- 3. ✖ 4.5 days
- 4. ✖ 9.5 days

Question Number : 16 Question Id : 318089516 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio between the speed of a boat upstream and downstream is 3 : 5. What is the speed of the boat in still water, if it covers 120 kms downstream in 8 hours?

Options :

- 1. ✖ 10 km/hr
- 2. ✔ 12 km/hr
- 3. ✖ 15 km/hr
- 4. ✖ 20 km/hr

Question Number : 17 Question Id : 318089517 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

When 15 persons present in a conference shake hands with one another, how many handshakes will be there in total?

Options :

- 1. ✖ 15
- 2. ✔ 105
- 3. ✖ 30
- 4. ✖ 210

Question Number : 18 Question Id : 318089518 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Area of the largest triangle that can be inscribed in a semicircle of radius 2 cm is

Options :

- 1. ✖ 2 sqcm
- 2. ✖ 3 sqcm
- 3. ✔ 4 sqcm
- 4. ✖ 5 sqcm

Question Number : 19 Question Id : 318089519 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio between the ages of Appu and Ryan at present is 3 : 4. Five years ago the ratio of their ages was 2 : 3. What is the present age of Appu ?

Options :

- 1. ✔ 15 years
- 2. ✖ 20 years
- 3. ✖ 12 years
- 4. ✖ 30 years

Question Number : 20 Question Id : 318089520 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A perfect square can never have the following digit at ones place

Options :

- 1. ✖ 1
- 2. ✖ 6
- 3. ✖ 5
- 4. ✔ 3

Question Number : 21 Question Id : 318089521 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Fill in the blanks by choosing one of the available options using grammatical principles and logical

reasoning.

"The family sat down _____ and enjoyed dinner."

Options :

1. ✖ Around
2. ✔ Together
3. ✖ Collectively
4. ✖ Again

Question Number : 22 Question Id : 318089522 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the option with the word having a meaning opposite to "Judicious"

Options :

1. ✖ Legislative
2. ✖ Lawyer
3. ✖ Tricked
4. ✔ Reckless

Question Number : 23 Question Id : 318089523 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

You shall select the appropriate option which is in line with the relation from the given list using the meaning of the words and logical deduction.

Ships : Dockyard

Options :

1. ✔ Aircrafts : Hanger
2. ✖ Trucks : Station
3. ✖ Cars : Street
4. ✖ Cycles : Barn

Question Number : 24 Question Id : 318089524 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the one word substitution for "A baby"

Options :

1. ✖ Toddler
2. ✔ Infant
3. ✖ Kid
4. ✖ Preschooler

Question Number : 25 Question Id : 318089525 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Identify the type of sentence "How strange she looks ! "

Options :

1. ✖ Interrogative sentence
2. ✖ Declarative sentence
3. ✖ Imperative sentence
4. ✔ Exclamatory sentence

Question Number : 26 Question Id : 318089526 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Although Epsom and Ewell are _____ populated, more than two-fifths of the borough is _____ as a green belt.

Options :

1. ✖ courageously, alarmed
2. ✔ densely, designated
3. ✖ brightly, terrified
4. ✖ morosely, spirited

Question Number : 27 Question Id : 318089527 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Antonym for Deceptive

Options :

1. ✖ Misleading
2. ✖ Fallacious
3. ✖ Deceiving
4. ✔ Straightforward

Question Number : 28 Question Id : 318089528 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The doctor gave me a prescription ____ my cough

Options :

1. ✔ for
2. ✖ with
3. ✖ at
4. ✖ to

Question Number : 29 Question Id : 318089529 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

My grandmother is eighty-five, but she _____ still read and write without glasses.

Options :

- 1. ✖ Will
- 2. ✖ Could
- 3. ✔ Can
- 4. ✖ Shall

Question Number : 30 Question Id : 318089530 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Synonym of STUMBLING BLOCK

Options :

- 1. ✖ Argument
- 2. ✖ Burst
- 3. ✖ Fallout
- 4. ✔ Hurdle

Discipline related

Group Number :	2
Group Id :	31808922
Group Maximum Duration :	56
Group Minimum Duration :	56
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	50

Discipline related

Section Id :	31808922
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	50
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808922
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 318089531 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Young's modulus of elasticity for a perfectly rigid body is

Options :

1. ✖ Zero
2. ✔ Infinity
3. ✖ Unity
4. ✖ Negative

Question Number : 32 Question Id : 318089532 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A shaft of diameter d and length l has been loaded axially. The ratio of change in diameter to the original is known as

Options :

1. ✖ longitudinal strain
2. ✖ shear strain
3. ✖ volumetric strain
4. ✔ lateral strain

Question Number : 33 Question Id : 318089533 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Chainage is the distance measured

Options :

1. ✔ along a chain line
2. ✖ perpendicular to a chain line
3. ✖ perpendicular to a tie line
4. ✖ none of the options

Question Number : 34 Question Id : 318089534 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A beam supported on both ends and restrained from rotation is called

Options :

1. ✔ Fixed beam
2. ✖ Simply supported beam
3. ✖ Cantilever beam
4. ✖ None of the options

Question Number : 35 Question Id : 318089535 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Modulus of Rupture of concrete gives

Options :

1. ✖ workability of the concrete
2. ✔ tensile strength of the concrete under bending
3. ✖ direct compressive strength of the concrete
4. ✖ characteristic strength of the concrete

Question Number : 36 Question Id : 318089536 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The installations fitted on Quays, dock mouths etc. to protect them from damage from collisions of ships are called

Options :

1. ✖ Bollards
2. ✖ Capstans
3. ✔ Fenders
4. ✖ Winches

Question Number : 37 Question Id : 318089537 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Transition Curves are provided on the approach to horizontal curves in order to

Options :

1. ✖ increase jerk to allowable levels
2. ✔ reduce jerk to allowable levels
3. ✖ minimize the length of horizontal curve
4. ✖ simplify the layout & construction of curve

Question Number : 38 Question Id : 318089538 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The load transfer to lower layers in flexible pavement is by

Options :

1. ✖ consolidation of sub grade
2. ✖ shear deformation
3. ✔ grain to grain contact
4. ✖ bending action of layers

Question Number : 39 Question Id : 318089539 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The usable floor area excluding staircases, lift wells, escalators, ducts, toilets etc. is called

Options :

1. ✖ floor area
2. ✖ built-up area
3. ✖ circulation area
4. ✔ carpet area

Question Number : 40 Question Id : 318089540 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

If Shear Force at a section of beam under bending is equal to zero, then the bending moment at the section is

Options :

1. ✖ zero
2. ✖ maximum
3. ✖ minimum
4. ✔ constant

Question Number : 41 Question Id : 318089541 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

For laying bituminous carpet over water bound macadam road surface, one has to apply a

Options :

1. ✔ tack coat
2. ✖ seal coat
3. ✖ bitumen grout
4. ✖ slurry coat

Question Number : 42 Question Id : 318089542 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Closed contours with higher value inside represents a

Options :

1. ✖ plain surface
2. ✖ depression
3. ✔ hill
4. ✖ none of the options

Question Number : 43 Question Id : 318089543 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Camber on highway pavement is provided to take care of

Options :

1. ✖ Centrifugal force
2. ✔ Drainage

3. ✖ Sight distance
4. ✖ Off-tracking

Question Number : 44 Question Id : 318089544 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The gradual reduction in value with age of a property is called

Options :

1. ✔ depreciation
2. ✖ appreciation
3. ✖ devaluation
4. ✖ revaluation

Question Number : 45 Question Id : 318089545 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The rail gauge is the distance between

Options :

1. ✖ outer faces of wheels
2. ✔ running faces of wheels
3. ✖ centre to centre of wheels
4. ✖ none of the options

Question Number : 46 Question Id : 318089546 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Coning of wheels is provided

Options :

1. ✖ to check the lateral movement of wheels
2. ✖ to avoid damage to inner faces of wheels
3. ✖ to avoid discomfort to passengers
4. ✔ all of the options

Question Number : 47 Question Id : 318089547 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Well foundation are commonly used as foundation for the following structures:

Options :

1. ✖ Water Tanks
2. ✔ Bridges
3. ✖ Buildings
4. ✖ Reciprocating machines

Question Number : 48 Question Id : 318089548 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Sand stone is

Options :

1. ✓ sedimentary rock
2. ✗ metamorphic rock
3. ✗ igneous rock
4. ✗ volcanic rock

Question Number : 49 Question Id : 318089549 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The accuracy of measurement in chain surveying does not depend upon

Options :

1. ✗ length of the offset
2. ✗ scale of the plotting
3. ✗ importance of the features
4. ✓ general layout of the chain lines

Question Number : 50 Question Id : 318089550 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Closed contours of decreasing values towards their centre represent

Options :

1. ✗ a hill
2. ✓ a depression
3. ✗ a saddle or pass
4. ✗ a river bed

Question Number : 51 Question Id : 318089551 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Distemper is

Options :

1. ✓ a paint consisting of powdered chalk, pigments, and water
2. ✗ a water proofing agent
3. ✗ a paint consisting of coloured cement and water
4. ✗ a drying agent

Question Number : 52 Question Id : 318089552 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The foundations are placed below ground level to increase

Options :

1. ✖ strength
2. ✖ workability
3. ✔ stability of structure
4. ✖ all of the options

Question Number : 53 Question Id : 318089553 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The process of making the back ground rough before plastering is

Options :

1. ✖ dubbing
2. ✔ hacking
3. ✖ blistering
4. ✖ peeling

Question Number : 54 Question Id : 318089554 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The portion of a brick cut across the width is called

Options :

1. ✖ closer
2. ✖ half brick
3. ✖ bed
4. ✔ bat

Question Number : 55 Question Id : 318089555 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The rock formed from the solidification of molten matter (magma) is called

Options :

1. ✖ sedimentary rock
2. ✖ metamorphic rock
3. ✔ igneous rock
4. ✖ none of the options

Question Number : 56 Question Id : 318089556 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Workability of concrete is measured by

Options :

1. ✖ Vicat apparatus test
2. ✔ Slump test

3. ✖ Minimum void method
4. ✖ Talbot Richard test

Question Number : 57 Question Id : 318089557 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The commonly used material in the manufacture of cement is

Options :

1. ✖ sandstone
2. ✖ slate
3. ✔ limestone
4. ✖ graphite

Question Number : 58 Question Id : 318089558 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The reason for considering safety include

Options :

1. ✖ Humanitarian concern
2. ✖ Economic reasons
3. ✖ Laws and Regulations
4. ✔ All of the options

Question Number : 59 Question Id : 318089559 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The liquid limit and plastic limit exist in

Options :

1. ✖ sandy soils
2. ✖ silty soils
3. ✖ gravel soils
4. ✔ clay soils

Question Number : 60 Question Id : 318089560 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Loess' is silty clay formed by the action of

Options :

1. ✖ water
2. ✖ glacier
3. ✔ wind
4. ✖ gravitational force

Question Number : 61 Question Id : 318089561 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The ratio of the weight of water to the weight of solids in a given mass of soil is known

Options :

1. ✖ porosity
2. ✖ specific gravity
3. ✖ void ratio
4. ✔ water content

Question Number : 62 Question Id : 318089562 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The solid angles are measured in

Options :

1. ✖ degrees
2. ✖ grades
3. ✖ radians
4. ✔ steradians

Question Number : 63 Question Id : 318089563 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The protective barrier constructed to enclose harbours is known as

Options :

1. ✔ breakwater
2. ✖ wharves
3. ✖ jetty
4. ✖ quay

Question Number : 64 Question Id : 318089564 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The information to be made available for the certain heavy purchases through the newspaper/website advertisement is called

Options :

1. ✖ Guideline
2. ✖ Terms & Conditions
3. ✖ Purchased Notice
4. ✔ Tender Notice

Question Number : 65 Question Id : 318089565 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

A notice inviting vendors to participate in pre-qualification process is formally called as

Options :

1. ✖ Request for Proposal
2. ✖ Request for Quotation
3. ✔ Expression of Interest
4. ✖ None of the options

Question Number : 66 Question Id : 318089566 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Damages caused due to delay in work are termed as

Options :

1. ✔ Liquidated Damages
2. ✖ Unliquidated Damages
3. ✖ Direct Damages
4. ✖ Tangible Damages

Question Number : 67 Question Id : 318089567 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following sight will be applicable for a change point ?

Options :

1. ✖ Back sight
2. ✖ Fore sight
3. ✖ Intermediate sight & fore sight
4. ✔ Back sight & fore sight

Question Number : 68 Question Id : 318089568 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The minimum grade of RCC recommended for marine civil works as per IS 456 is

Options :

1. ✖ M20
2. ✖ M25
3. ✔ M30
4. ✖ M40

Question Number : 69 Question Id : 318089569 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Equipment used in bathymetry survey for measuring draught is

Options :

1. ✖ Total station

2. ✓ Echo sounder
3. ✗ DGPS
4. ✗ Theodolite

Question Number : 70 Question Id : 318089570 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Minimum period for removal of soffit formwork of beams as per IS 456 is

Options :

1. ✓ 7 days
2. ✗ 28 days
3. ✗ 3 days
4. ✗ 1 day

Question Number : 71 Question Id : 318089571 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Minimum period of curing recommended for Ordinary portland cement as per IS 456 is

Options :

1. ✗ 28 days
2. ✗ 14 days
3. ✓ 7 days
4. ✗ 3 days

Question Number : 72 Question Id : 318089572 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Aggregate impact value indicates which one of the following properties of aggregates

Options :

1. ✗ Durability
2. ✓ Toughness
3. ✗ Hardness
4. ✗ Strength

Question Number : 73 Question Id : 318089573 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Compaction of soil can be tested using

Options :

1. ✓ Proctor test
2. ✗ Vane test
3. ✗ Penetration test
4. ✗ Hydrometer test

Question Number : 74 Question Id : 318089574 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Identify the odd one out

Options :

1. ✖ Tensile test
2. ✖ Brinell hardness test
3. ✖ Impact test
4. ✔ Spectrometer test

Question Number : 75 Question Id : 318089575 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Bitumen of grade 80/100 means

Options :

1. ✖ penetration value is 80mm
2. ✖ penetration value is 8mm
3. ✔ penetration value is 8mm to 10mm
4. ✖ penetration value is 8cm to 10cm

Question Number : 76 Question Id : 318089576 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The point of contraflexure is the point where

Options :

1. ✖ Shear force is zero
2. ✖ Deflection is zero
3. ✔ Bending moment is zero
4. ✖ Bending moment and shear force is zero

Question Number : 77 Question Id : 318089577 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The minimum grade of RCC recommended for bored piles is

Options :

1. ✖ M20
2. ✔ M25
3. ✖ M30
4. ✖ M40

Question Number : 78 Question Id : 318089578 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio of lateral strain to longitudinal strain is called as

Options :

- 1. ✖ Young's modulus
- 2. ✖ Shear modulus
- 3. ✖ Bulk modulus
- 4. ✔ Poisson's ratio

Question Number : 79 Question Id : 318089579 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Bituminous materials are commonly used in highway construction because of their good

Options :

- 1. ✖ shear strength and tensile properties
- 2. ✖ tensile and compressive properties
- 3. ✔ binding and waterproofing properties
- 4. ✖ bond and tensile properties

Question Number : 80 Question Id : 318089580 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which category of cement provides high early compressive strength?

Options :

- 1. ✔ ordinary portland cement
- 2. ✖ portland slag cement
- 3. ✖ portland pozzolano cement
- 4. ✖ sulphate resisting portland cement

Descriptive type

Group Number :	3
Group Id :	31808923
Group Maximum Duration :	45
Group Minimum Duration :	45
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	20

Descriptive type

Section Id :	31808923
--------------	----------

Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808923
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 318089581 Question Type : SA
Correct Marks : 10 Wrong Marks : 0

Prepare a circular to inform your employees on the introduction of a new biometric attendance system in the company. You are also required to include a user manual (explaining the step by step procedure to record attendance) as Annexure.

Response Type : Alphanumeric
Evaluation Required For SA : No
Max Word Count : 1500
Show Word Count : No
Min Word Count : 0
Highlight min word : Yes
Single Line Response : No
Number of Rows : 10
Number Of Columns : 70
Text Areas : PlainText

Question Number : 82 Question Id : 318089582 Question Type : SA
Correct Marks : 10 Wrong Marks : 0

As a prelude to the Vigilance Awareness Week 2024, all organizations are required to undertake a three-month campaign from 16th Aug to 15th Nov 2024 on Preventive Vigilance. In this regard, write a letter to Shri. T.Prabhu, IOFS, Chief Vigilance Officer of Cochin Port Authority, Kochi inviting him to Cochin Shipyard Ltd, to deliver a talk on the topic Preventive Vigilance for the Senior Executives in Cochin Shipyard Ltd.

Response Type : Alphanumeric
Evaluation Required For SA : No
Max Word Count : 1500
Show Word Count : No
Min Word Count : 0
Highlight min word : Yes
Single Line Response : No
Number of Rows : 10

Number Of Columns : 70

Text Areas : PlainText

**Question paper of
Project Assistant
(Instrumentation)**

Cochin Shipyard Limited

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :

Online Test for the post of Project Assistant
Instrumentation 7th November 2024 Shift 2

Subject Name :

Online Test for the post of Project Assistant
Instrumentation

Creation Date :

2024-11-07 15:23:59

Duration :

135

Total Marks :

100

Display Marks:

No

Share Answer Key With Delivery Engine :

No

Change Font Color :

No

Change Background Color :

No

Change Theme :

No

Help Button :

No

Show Reports :

No

Show Progress Bar :

No

General

Group Number :

1

Group Id :

31808933

Group Maximum Duration :

34

Group Minimum Duration :

34

Show Attended Group? :

No

Edit Attended Group? :

No

Break time :

0

Group Marks :

30

General

Section Id :

31808933

Section Number :

1

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions :	30
Number of Questions to be attempted :	30
Section Marks :	30
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808933
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 318089829 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is true?

Options :

1. ✖ All unwritten contracts are agreements
2. ✖ All agreements are contracts
3. ✔ Only legally enforceable agreements are contracts
4. ✖ Only written agreements are contracts

Question Number : 2 Question Id : 318089830 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Article 44 of the Indian Constitution provides for

Options :

1. ✔ Uniform Civil Code for citizens
2. ✖ Right to property
3. ✖ Fundamental duties
4. ✖ Organisation of village panchayats

Question Number : 3 Question Id : 318089831 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Winner of 2022 FIFA World Cup held at Qatar

Options :

1. ✖ France
2. ✔ Argentina
3. ✖ Portugal
4. ✖ Brazil

Question Number : 4 Question Id : 318089832 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Cochin Shipyard Limited comes under

Options :

1. ✖ Ministry of Commerce and Industry

2. ✖ Ministry of Defence
3. ✔ Ministry of Ports, Shipping and Waterways
4. ✖ Ministry of Heavy Industry and Public Enterprises

Question Number : 5 Question Id : 318089833 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which river of India is called Vridha Ganga?

Options :

1. ✖ Krishna
2. ✔ Godavari
3. ✖ Kaveri
4. ✖ Narmada

Question Number : 6 Question Id : 318089834 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

"Fire" is related to "Ashes" in the same way "Explosion" is related to

Options :

1. ✖ Sound
2. ✔ Debris
3. ✖ Explosive
4. ✖ Flame

Question Number : 7 Question Id : 318089835 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the word which is least like other words

Options :

1. ✖ Wheat
2. ✔ Sugar
3. ✖ Rice
4. ✖ Maize

Question Number : 8 Question Id : 318089836 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In certain code HIMACHAL is coded as JKOCEJCN. How ORISSA is coded?

Options :

1. ✖ QTKUVC
2. ✖ TKUPC
3. ✔ QTKUUC
4. ✖ QTKUUB

Question Number : 9 Question Id : 318089837 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the odd one out.

Options :

1. ✖ Dollar
2. ✖ Euro
3. ✖ Peso
4. ✔ Ounce

Question Number : 10 Question Id : 318089838 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Pointing to a boy in the photograph, Monika said, "His sister is the only daughter of my father". How is the boy related to Monika's father?

Options :

1. ✖ Nephew
2. ✖ Son in law
3. ✔ Son
4. ✖ Brother

Question Number : 11 Question Id : 318089839 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?

Options :

1. ✖ 15
2. ✔ 18
3. ✖ 11
4. ✖ 13

Question Number : 12 Question Id : 318089840 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Value of 102×98 is:

Options :

1. ✖ 9786
2. ✖ 9896
3. ✖ 9986
4. ✔ 9996

Question Number : 13 Question Id : 318089841 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

How many prime numbers are less than 30?

Options :

- 1. ✖ 8
- 2. ✔ 10
- 3. ✖ 12
- 4. ✖ 14

Question Number : 14 Question Id : 318089842 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The total weight of 45 boxes loaded in a truck was 1000 kgs. 3 over sized boxes weighing 51 kg, 54 kg and 55 kg were removed from the truck. Find the average weight of the remaining boxes

Options :

- 1. ✖ 18 kg
- 2. ✔ 20 kg
- 3. ✖ 27 kg
- 4. ✖ 46 kg

Question Number : 15 Question Id : 318089843 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Raju & Tom together can do a work in 10 days. Tom & Appu together can do it in 12 days. Appu & Raju together can do it in 15 days. In how many days will they finish it if all the three work together ?

Options :

- 1. ✔ 8 days
- 2. ✖ 4 days
- 3. ✖ 4.5 days
- 4. ✖ 9.5 days

Question Number : 16 Question Id : 318089844 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio between the speed of a boat upstream and downstream is 3 : 5. What is the speed of the boat in still water, if it covers 120 kms downstream in 8 hours?

Options :

- 1. ✖ 10 km/hr
- 2. ✔ 12 km/hr
- 3. ✖ 15 km/hr
- 4. ✖ 20 km/hr

Question Number : 17 Question Id : 318089845 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

When 15 persons present in a conference shake hands with one another, how many handshakes will be there in total?

Options :

- 1. ✖ 15
- 2. ✔ 105
- 3. ✖ 30
- 4. ✖ 210

Question Number : 18 Question Id : 318089846 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Area of the largest triangle that can be inscribed in a semicircle of radius 2 cm is

Options :

- 1. ✖ 2 sqcm
- 2. ✖ 3 sqcm
- 3. ✔ 4 sqcm
- 4. ✖ 5 sqcm

Question Number : 19 Question Id : 318089847 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio between the ages of Appu and Ryan at present is 3 : 4. Five years ago the ratio of their ages was 2 : 3. What is the present age of Appu ?

Options :

- 1. ✔ 15 years
- 2. ✖ 20 years
- 3. ✖ 12 years
- 4. ✖ 30 years

Question Number : 20 Question Id : 318089848 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A perfect square can never have the following digit at ones place

Options :

- 1. ✖ 1
- 2. ✖ 6
- 3. ✖ 5
- 4. ✔ 3

Question Number : 21 Question Id : 318089849 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Fill in the blanks by choosing one of the available options using grammatical principles and logical

reasoning.

"The family sat down _____ and enjoyed dinner."

Options :

1. ✖ Around
2. ✔ Together
3. ✖ Collectively
4. ✖ Again

Question Number : 22 Question Id : 318089850 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the option with the word having a meaning opposite to "Judicious"

Options :

1. ✖ Legislative
2. ✖ Lawyer
3. ✖ Tricked
4. ✔ Reckless

Question Number : 23 Question Id : 318089851 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

You shall select the appropriate option which is in line with the relation from the given list using the meaning of the words and logical deduction.

Ships : Dockyard

Options :

1. ✔ Aircrafts : Hanger
2. ✖ Trucks : Station
3. ✖ Cars : Street
4. ✖ Cycles : Barn

Question Number : 24 Question Id : 318089852 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the one word substitution for "A baby"

Options :

1. ✖ Toddler
2. ✔ Infant
3. ✖ Kid
4. ✖ Preschooler

Question Number : 25 Question Id : 318089853 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Identify the type of sentence "How strange she looks ! "

Options :

1. ✖ Interrogative sentence
2. ✖ Declarative sentence
3. ✖ Imperative sentence
4. ✔ Exclamatory sentence

Question Number : 26 Question Id : 318089854 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Although Epsom and Ewell are _____ populated, more than two-fifths of the borough is _____ as a green belt.

Options :

1. ✖ courageously, alarmed
2. ✔ densely, designated
3. ✖ brightly, terrified
4. ✖ morosely, spirited

Question Number : 27 Question Id : 318089855 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Antonym for Deceptive

Options :

1. ✖ Misleading
2. ✖ Fallacious
3. ✖ Deceiving
4. ✔ Straightforward

Question Number : 28 Question Id : 318089856 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The doctor gave me a prescription ____ my cough

Options :

1. ✔ for
2. ✖ with
3. ✖ at
4. ✖ to

Question Number : 29 Question Id : 318089857 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

My grandmother is eighty-five, but she _____ still read and write without glasses.

Options :

- 1. ✖ Will
- 2. ✖ Could
- 3. ✔ Can
- 4. ✖ Shall

Question Number : 30 Question Id : 318089858 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Synonym of STUMBLING BLOCK

Options :

- 1. ✖ Argument
- 2. ✖ Burst
- 3. ✖ Fallout
- 4. ✔ Hurdle

Discipline related

Group Number :	2
Group Id :	31808934
Group Maximum Duration :	56
Group Minimum Duration :	56
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	50

Discipline related

Section Id :	31808934
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	50
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808934
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 318089859 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Synchro is

Options :

1. ✖ a parabolic transducer
2. ✔ an angular position transducer
3. ✖ a synchronising transducer
4. ✖ a variable pressure transducer

Question Number : 32 Question Id : 318089860 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A meggar is

Options :

1. ✖ Moving iron type instrument
2. ✖ Electro-static type instrument
3. ✖ Hot-wire type instrument
4. ✔ Moving coil type instrument

Question Number : 33 Question Id : 318089861 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The resistance required for critical damping in a circuit is 1000 ohm. The galvanometer circuit has a resistance of 800 ohm. The galvanometer circuit is

Options :

1. ✖ underdamped
2. ✖ critically damped
3. ✔ overdamped
4. ✖ none of the options

Question Number : 34 Question Id : 318089862 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Frequency can be measured by using

Options :

1. ✖ Maxwell's bridge
2. ✖ Schering bridge
3. ✖ Heaviside Campbell bridge
4. ✔ Wein's bridge

Question Number : 35 Question Id : 318089863 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

SI unit of luminous intensity

Options :

1. ✖ Tesla
2. ✖ Mole
3. ✔ Candela
4. ✖ Weber

Question Number : 36 Question Id : 318089864 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

_____ is used to convert AC to DC

Options :

1. ✖ Transformer
2. ✖ Motor
3. ✖ Oscillator
4. ✔ Rectifier

Question Number : 37 Question Id : 318089865 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Universal gates are

Options :

1. ✖ AND & OR
2. ✖ OR & NOR
3. ✖ NAND & AND
4. ✔ NAND & NOR

Question Number : 38 Question Id : 318089866 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Rotameter is used for measuring

Options :

1. ✖ Level
2. ✖ Rotation
3. ✔ Flow
4. ✖ Voltage

Question Number : 39 Question Id : 318089867 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The fuse rating is expressed in terms of

Options :

1. ✔ Current

2. ✖ Voltage
3. ✖ VAR
4. ✖ KVA

Question Number : 40 Question Id : 318089868 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

In a signal flow graph, nodes are represented by small _____

Options :

1. ✔ Circles
2. ✖ Squares
3. ✖ Arrows
4. ✖ Triangles

Question Number : 41 Question Id : 318089869 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

In a measurement, what is the term used to specify the closeness of two or more measurements?

Options :

1. ✔ Precision
2. ✖ Accuracy
3. ✖ Fidelity
4. ✖ Threshold

Question Number : 42 Question Id : 318089870 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following can be treated as an equivalent of ampere?

Options :

1. ✖ Coulomb
2. ✖ Joule/second
3. ✔ Coulomb/second
4. ✖ Watt/second

Question Number : 43 Question Id : 318089871 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Which of following is a digital transducer?

Options :

1. ✖ Strain gauge
2. ✔ Encoder
3. ✖ Thermistor

4. ✖ LVDT

Question Number : 44 Question Id : 318089872 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

What device is similar to an RTD but has a negative temperature coefficient?

Options :

- 1. ✖ Strain gauge
- 2. ✔ Thermistor
- 3. ✖ Thermocouple
- 4. ✖ Pyrometer

Question Number : 45 Question Id : 318089873 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Flapper nozzle is used in a/an _____ controller.

Options :

- 1. ✖ Electronic
- 2. ✖ Hydraulic
- 3. ✔ Pneumatic
- 4. ✖ None of the options

Question Number : 46 Question Id : 318089874 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Ethernet system uses which of the following technology ?

Options :

- 1. ✔ Bus
- 2. ✖ Ring
- 3. ✖ Star
- 4. ✖ Tree

Question Number : 47 Question Id : 318089875 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

In DC motor, which of the following part can sustain the maximum temperature rise?

Options :

- 1. ✔ Field winding
- 2. ✖ Commutator
- 3. ✖ Slip rings
- 4. ✖ Armature winding

Question Number : 48 Question Id : 318089876 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of motor does not require a separate power source for the rotor?

Options :

1. ✖ Synchronous motor
2. ✔ Induction motor
3. ✖ Brushless DC motor
4. ✖ Universal motor

Question Number : 49 Question Id : 318089877 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A transformer can have regulation closer to zero ?

Options :

1. ✖ on full-load
2. ✖ on overload
3. ✔ on leading power factor
4. ✖ on zero power factor

Question Number : 50 Question Id : 318089878 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is the most likely source of harmonics in a transformer ?

Options :

1. ✖ Poor-insulation
2. ✖ Overload
3. ✖ Loose connections
4. ✔ Core saturation

Question Number : 51 Question Id : 318089879 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In a D.C. generator the ripples in the direct e.m.f. generated are reduced by

Options :

1. ✖ Using conductor of annealed copper
2. ✖ Using commutator with large number of segments
3. ✔ Using carbon brushes of superior quality
4. ✖ Using equaliser ring

Question Number : 52 Question Id : 318089880 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In a D.C. machine stray loss is the sum of

Options :

1. ✖ Total copper loss and mechanical loss
2. ✖ Armature copper loss and iron loss
3. ✖ Shunt field copper loss and mechanical loss
4. ✔ Iron loss and mechanical loss

Question Number : 53 Question Id : 318089881 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Alternators are usually designed to generate ?

Options :

1. ✖ definite currents
2. ✖ definite power factor
3. ✖ variable frequencies
4. ✔ definite frequencies

Question Number : 54 Question Id : 318089882 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A snubber circuit is used to

Options :

1. ✖ Limit the rate of rising in voltage across BJT
2. ✔ Limit the rate of rising in voltage across SCR
3. ✖ Limit the rate of rising in current across TRIAC
4. ✖ Limit the rate of rising in current across BJT

Question Number : 55 Question Id : 318089883 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A silicon controlled rectifier is turned off mode when its turn off time is

Options :

1. ✖ Greater than the circuit turn off time
2. ✔ Less than the circuit turn off time
3. ✖ Equal to the circuit turn off time
4. ✖ None of the options

Question Number : 56 Question Id : 318089884 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A four-quadrant chopper can not be operated as

Options :

1. ✖ Thyristor
2. ✔ Cycloconverter
3. ✖ One quadrant chopper

4. ✖ Inverter

Question Number : 57 Question Id : 318089885 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following part of thermal power plant causes maximum energy losses?

Options :

1. ✖ Alternator
2. ✖ Ash and unburnt carbon
3. ✖ Boiler
4. ✔ Condenser

Question Number : 58 Question Id : 318089886 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Which component of gas turbine power plant is main cause of its low efficiency?

Options :

1. ✔ Compressor
2. ✖ Starting motor
3. ✖ Gas turbine
4. ✖ Combustion chamber

Question Number : 59 Question Id : 318089887 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

National Internet Service Provider (ISP) networks are connected to one another by private switching network is called

Options :

1. ✖ Peering Points
2. ✔ Network Access Points
3. ✖ National ISP
4. ✖ None of the options

Question Number : 60 Question Id : 318089888 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The method of communication in which transmission of data takes place in both directions but in one direction at a time is

Options :

1. ✖ Simplex
2. ✖ Four-wire circuit
3. ✔ Half-duplex
4. ✖ Full duplex

Question Number : 61 Question Id : 318089889 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

What else is a command interpreter called?

Options :

1. ✖ prompt
2. ✖ kernel
3. ✖ command
4. ✔ shell

Question Number : 62 Question Id : 318089890 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not the feature of a modern control system?

Options :

1. ✖ Correct power level
2. ✔ No oscillation
3. ✖ Quick response
4. ✖ Accuracy

Question Number : 63 Question Id : 318089891 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A variable reluctance stepper motor is constructed of _____ material with salient poles.

Options :

1. ✖ Paramagnetic
2. ✔ Ferromagnetic
3. ✖ Diamagnetic
4. ✖ Non-magnetic

Question Number : 64 Question Id : 318089892 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The principle of working of a transformer

Options :

1. ✖ static induction
2. ✖ self induction
3. ✔ mutual induction
4. ✖ dynamic induction

Question Number : 65 Question Id : 318089893 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The greatest percentage of powerloss in a DC motor is due to

Options :

1. ✖ core loss
2. ✔ copper loss
3. ✖ windage loss
4. ✖ friction loss

Question Number : 66 Question Id : 318089894 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The device that detects the fault in power system is

Options :

1. ✖ circuit breaker
2. ✔ relay
3. ✖ isolator
4. ✖ none of the options

Question Number : 67 Question Id : 318089895 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A semiconductor has temperature coefficient of resistance.

Options :

1. ✖ positive
2. ✖ zero
3. ✔ negative
4. ✖ none of the options

Question Number : 68 Question Id : 318089896 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Active devices can also be used as.....

Options :

1. ✔ Amplifiers
2. ✖ Choppers
3. ✖ Converters
4. ✖ Inverters

Question Number : 69 Question Id : 318089897 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Tunnel diode can be used as an active device because.....

Options :

1. ✔ its negative resistance region is used
2. ✖ it conducts at a faster rate

3. ✖ it triggers the flow of electrons in reverse bias
4. ✖ of tunneling effect

Question Number : 70 Question Id : 318089898 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a special-purpose register of microprocessor?

Options :

1. ✔ Program counter
2. ✖ Instruction register
3. ✖ Accumulator
4. ✖ Temporary register

Question Number : 71 Question Id : 318089899 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a system software?

Options :

1. ✖ Word processing software
2. ✔ Operating system
3. ✖ Web browsers
4. ✖ Spreadsheet software

Question Number : 72 Question Id : 318089900 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Identify the protocol primarily used for browsing data.

Options :

1. ✖ FTP
2. ✖ TCP
3. ✖ TFTP
4. ✔ HTTP

Question Number : 73 Question Id : 318089901 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In a control system the output of the controller is given to

Options :

1. ✖ Amplifier
2. ✖ Sensor
3. ✔ Final control element
4. ✖ Comparator

Question Number : 74 Question Id : 318089902 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

In a temperature control system, what conversion in signal takes place?

Options :

1. ✖ Error to Digital
2. ✖ Digital to Analog
3. ✔ Analog to Digital
4. ✖ Error to Analog

Question Number : 75 Question Id : 318089903 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

In servo-system, the device used for derivative feedback is known as

Options :

1. ✖ Synchro
2. ✖ Servomotor
3. ✖ Potentiometer
4. ✔ Tacho generator

Question Number : 76 Question Id : 318089904 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

The rotor of a stepper motor has no

Options :

1. ✖ Windings
2. ✖ Commutator
3. ✖ Brushes
4. ✔ All of the mentioned

Question Number : 77 Question Id : 318089905 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

A CRO can display

Options :

1. ✖ AC signals
2. ✖ DC signals
3. ✔ Both AC and DC signals
4. ✖ Time invariant signals

Question Number : 78 Question Id : 318089906 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

Humidity of air can be determined by a

Options :

1. ✖ Chromatograph
2. ✔ Sling psychrometer
3. ✖ Mass spectrometer
4. ✖ Polarimeter

Question Number : 79 Question Id : 318089907 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not classified as a thermo electric pyrometer?

Options :

1. ✖ Resistance thermometer
2. ✖ Thermocouple
3. ✔ Optical pyrometer (disappearing filament type)
4. ✖ Radiation pyrometer

Question Number : 80 Question Id : 318089908 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

What is the function of the flow control valve?

Options :

1. ✖ Controls the direction of flow of air
2. ✖ The moisture is separated and removed
3. ✖ It converts the mechanical energy to hydraulic energy
4. ✔ It controls the rate of flow of compressed air

Descriptive type

Group Number :	3
Group Id :	31808935
Group Maximum Duration :	45
Group Minimum Duration :	45
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	20

Descriptive type

Section Id :	31808935
Section Number :	1

Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	31808935
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 318089909 Question Type : SA

Correct Marks : 10 Wrong Marks : 0

Prepare a circular to inform your employees on the introduction of a new biometric attendance system in the company. You are also required to include a user manual (explaining the step by step procedure to record attendance) as Annexure.

Response Type : Alphanumeric

Evaluation Required For SA : No

Max Word Count : 1500

Show Word Count : No

Min Word Count : 0

Highlight min word : Yes

Single Line Response : No

Number of Rows : 10

Number Of Columns : 70

Text Areas : PlainText

Question Number : 82 Question Id : 318089910 Question Type : SA

Correct Marks : 10 Wrong Marks : 0

As a prelude to the Vigilance Awareness Week 2024, all organizations are required to undertake a three-month campaign from 16th Aug to 15th Nov 2024 on Preventive Vigilance. In this regard, write a letter to Shri. T.Prabhu, IOFS, Chief Vigilance Officer of Cochin Port Authority, Kochi inviting him to Cochin Shipyard Ltd, to deliver a talk on the topic Preventive Vigilance for the Senior Executives in Cochin Shipyard Ltd.

Response Type : Alphanumeric

Evaluation Required For SA : No

Max Word Count : 1500

Show Word Count : No

Min Word Count : 0

Highlight min word : Yes

Single Line Response : No

Number of Rows : 10

Number Of Columns : 70

