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Instructions
In the fo ow ng quest ons, se ect the re ated word/ etters/numbers from the g ven a ternat ves.
Question 1
Uttarakhand : Dehradun :: Mizoram : ?

A Azaw

B Koh ma
C Sh ong
D Darjee ng
Answer: A

Explanation:
Dehradun s the cap ta of the Uttarakhnad smary A zawa s the cap ta of the M zoram.
$\therefore$ Opt on A s the correct answer.
Question 2
Crime : Court :: Disease : ?

A Doctor

B Medcne

C Hospta
D Treatment
Answer: C

Explanation:
As cr me s re ated to court smary d sease s re ated to hosp ta .
$\therefore$ The correct answer s opt on C.
Question 3
YQXP : JBIA :: OVNU : ?

A FAGZ

B HRIS
c DKCJ

D DNEO
Answer: C

Explanation:

$\therefore$ Opt on C s the correct answer.
Question 4
ADGJ : BEHK :: DGJM : ?

A KPUB

B EHKN

C KNQT

D PSVY
Answer: B

Explanation:
In ADGJ: BEHK
$A(+1) \rightarrow B$
D $(+1) \rightarrow E$
G (+1) $\rightarrow \mathrm{H}$
$J(+1) \rightarrow K$
Sm ary,
In DGJM : ?
D (+1) $\rightarrow E$
G (+1) $\rightarrow \mathrm{H}$
$J(+1) \rightarrow K$
$\mathrm{M}(+1) \rightarrow \mathrm{N}$
? EHKN
$\therefore$ Opt on B s the correct answer

## Question 5

ACE : BDF :: GIK : ?

A HJL

B AXP

C CFG

D GFC
Answer: A

Explanation:
In ACE : BDF
$A(+1) \rightarrow B$
$C(+1) \rightarrow D$
$E(+1) \rightarrow F$
Smary,
In GIK : ?,
$G(+1) \rightarrow H$
$\mathrm{I}(+1) \rightarrow \mathrm{J}$
$K(+1) \rightarrow L$
$\therefore$ Opt on A s the correct answer.
Question 6
CAT : BIG :: DDY : ?

A CLL

B CLM

C CML

D CEP
Answer: A

Explanation:
For CAT : BIG,
$C(-1) \rightarrow B$
A (+8) $\rightarrow$ I
$\mathrm{T}(+13) \rightarrow \mathrm{G}$
Sm ary,
For DDY : ?,
D (-1) $\rightarrow$ C
D (+8) $\rightarrow$ L
$Y(+13) \rightarrow L$
$\therefore$ Opt on CLL s the correct answer.
Question 7
1 : 1 :: 10 : ?

A 12

B 110

C 210

D 1000
Answer: D

Explanation:
$1:\left(1^{3}=1\right)$
$10:\left(10^{3}=1000\right)$

## Question 8

7 : 56 :: 5 :?

A 25

B 26

C 30

D 35
Answer: C

Explanation:
$7 \times(7+1) \quad 56$
$5 \times(5+1) \quad 30$
Instructions
For the fo ow ng quest ons answer them nd $v$ dua $y$
Question 9
The following numbers fall in a group. Which one does not belong to the group ?
53, 63, 83, 73

A 53

B 63

C 83

D 73
Answer: B

Explanation:
On y 63 sdv s be by 3 so 63 not be ong to th s group.
$\therefore$ Opt on B s correct answer.
Question 10
Which one is the same as Mumbai, Kolkata and Cochin

A Deh

B Kanpur

C Chenna

D Sho apur
Answer: C

## Explanation:

Mumba, Ko kata and Coch $n$ are the cap ta of states s m ar y Chenna s cap ta of Tam nadu.
Instructions
In the fo ow ng quest ons, f nd the odd word/ etters/number parfrom the g ven a ternat ves.
Question 11

A Ko kata

B V shakhapatnam
C Benga uru

D Hada
Answer: C

## Explanation:

Except Benga uru rema n ng a are ports.
Question 12

A Cabbage

B Carrot

C Potato

D Beetroot
Answer: A

## Explanation:

Carrot, Potato and Beetroot are the root so Cabbage s odd.
Question 13

A HGFE

B PONM

C DCBA

D MSTU
Answer: D

Explanation:
In HGFE,
$\mathrm{H}-1 \rightarrow \mathrm{G}-1 \rightarrow \mathrm{~F}-1 \rightarrow \mathrm{E}$
In PONM,
$\mathrm{P}-1 \rightarrow \mathrm{O}-1 \rightarrow \mathrm{~N}-1 \rightarrow \mathrm{M}$
In DCBA,
$\mathrm{D}-1 \rightarrow \mathrm{C}-1 \rightarrow \mathrm{~B}-1 \rightarrow \mathrm{~A}$
In MSTU,
$\mathrm{M}+6 \rightarrow \mathrm{~S}+1 \rightarrow \mathrm{~T}+1 \rightarrow \mathrm{U}$
$\therefore$ Opt on D dd fferent.
Question 14

A GFI

B VUX

C POR

D LKM
Answer: D

Explanation:
In GFI,
$\mathrm{G}-1 \rightarrow \mathrm{~F}+3 \rightarrow \mathrm{I}$
In VUX,
$\mathrm{V}-1 \rightarrow \mathrm{U}+3 \rightarrow \mathrm{X}$
In POR,
$\mathrm{P}-1 \rightarrow \mathrm{O}+3 \rightarrow \mathrm{R}$
In LKM,
$\mathrm{L}-\mathbf{1} \rightarrow \mathrm{K}+\mathbf{2} \rightarrow \mathrm{M}$
$\therefore$ Opt on D s the correct answer.
Question 15

A vwqp

B $y x m n$

C gfk

D cbrs
Answer: A

Explanation:
In the vwqp,
v+1 $\quad w-6 \quad q+1 \quad p$
In the yxmn,
$y-1 \quad x-11 \quad m+1 \quad n$
In the gfk,
$g-1 \quad f+5 \quad k+1$
In the cbrs,
$c-1 \quad b+16 r+1 s$
$\therefore$ vwqp sodd.
Question 16

A $(324,18)$
B $(441,72)$

C $(117,81)$
D $(186,14)$
Answer: D

Explanation:
$(324,18) \rightarrow 3+2+4 \quad 9$ and $1+8 \quad 9$
$(441,72) \rightarrow 4+4+1 \quad 9$ and $7+2 \quad 9$
$(117,81) \rightarrow 1+1+7 \quad 9$ and $8+1 \quad 9$
$(186,14) \rightarrow 1+8+6=15$ and $1+4=5$
$(186,14)$ s odd.

Question 17

A $(11,121)$
B $(25,625)$
C $(12,141)$
D $(15,225)$
Answer: C

Explanation:
$\ln (11,121)$,
$(11)^{2} \quad 121$
$\ln (25,625)$,
$(25)^{2} \quad 625$
$\ln (12,141)$,
$(12)^{2}=144$
$\ln (15,225)$,
$(15)^{2} \quad 225$
therefore $(12,141)$ s odd.
Instructions
For the fo ow ng quest ons answer them nd $v$ dua $y$
Question 18
Find the smallest number which when divided by 25,40 , or 56 has in each case 13 as remainder.

A 1413

B 1400

C 1439

D 1426
Answer: A

Explanation:
Sma est number (LCM of 25, 40 and 56) + rema nder
Factor of $25 \quad 5^{2}$
Factor of $40 \quad 2^{3} .5$
Factor of $56 \quad 2^{3} .7$
LCM of 25,40 and $56 \quad 2^{3} .5^{2} .7 \quad 1400$
Sma est number $1400+13 \quad 1413$
Question 19
Arrange the following words as per order in the dictionary:

1. Emplane
2. Empower
3. Embrace
4. Elocution
5. Equable

A $5,1,3,2,4$
B 4, 2, 1, 3, 5
C $4,3,1,2,5$

D $4,5,2,3,1$
Answer: C

Explanation:
Order as per d ct onary,
E ocut on $\rightarrow$ Embrace $\rightarrow$ Emp ane $\rightarrow$ Empower $\rightarrow$ Equab e
Question 20
Which one of the given response would be a meaningful order of the following words?

1. Sowing
2. Tilling
3. Reaping
4. Weeding

A $3,1,2,4$

B 2, 1, 4, 3

C $1,2,4,3$
D 1, 3, 2, 4
Answer: B

Explanation:
Order of mean ngfu word,
T ng $\rightarrow$ Sowng $\rightarrow$ Weed ng $\rightarrow$ Reap ng
Question 21
Arrange the colours of the rainbow (in the reverse order)(from the top edge):
Red, Orange, ......

1. Blue
2. Indigo
3. Yellow
4. Green
5. Violet

A $3,4,1,2,5$

B $4,3,2,5,1$

C $5,3,4,2,1$
D $2,4,3,1,5$
Answer: A

## Explanation:

Co ors of the ra nbow ( n the reverse order) Red, Orange, Ye ow, Green, B ue, Ind go, Vo et
Instructions
In the fo ow ng quest ons, a ser es s g ven, w th one term m ss ng . Choose the correct a ternat ve from the g ven ones that w comp ete the ser es.

Question 22
CEG, JLN, QSU, ......

A QQS

B TVX

C HJL
D UVW
Answer: C

Explanation:
In CEG,
$\mathrm{C}+2 \rightarrow \mathrm{E}+2 \rightarrow \mathrm{G}$
In JLN,
$\mathrm{J}+2 \rightarrow \mathrm{~L}+2 \rightarrow \mathrm{~N}$
In QSU,
$\mathrm{Q}+2 \rightarrow \mathrm{~S}+2 \rightarrow \mathrm{U}$
Smary,
In HJL,
$\mathrm{H}+2 \rightarrow \mathrm{~J}+2 \rightarrow \mathrm{~L}$
$\therefore$ The correct opt on s HJL.
Question 23
B-1, D-2, F-4, H-8, J-16, .....

A K-64

B L-32

C $\mathrm{M}-32$

D L-64
Answer: B

Explanation:
Order of etters,
$B+2 \quad D+2 \quad F+2 \quad H+2 \quad J+2 \quad L$
Order of numbers,
$1 \times 2 \quad 2$
$2 \times 2 \quad 4$
$4 \times 28$
$8 \times 216$
$16 \times 232$
So, next term L-32
Question 24
CGJ, KOR, TXA,

A ACE
B JP

C FUM
D UWY
Answer: C

Explanation:
For CGJ,
$C+4 \quad G$
Gi J
For KOR,
$K+4 \quad 0$
$0+3 R$
Smeary,
For FJM,
$F+4=J$
$\mathrm{J}+3=\mathrm{M}$
Instructions
In the fo ow $n g$ quest on $f$ nd the $m$ ss $n g$ number from the $g$ ven responses.
Question 25


A 422
B 374

C 256

D 342
Answer: D

## Question 26



A 40
B 38
C 39

D 44
Answer: B

Question 27


A 56

B 57
C 58

D 59
Answer: B

Question 28


A 176
B 115
C 157

D 131
Answer: A

## Explanation:

$$
\begin{array}{lll}
(11+5)+3 \times 4 & 16+12 & 28 \\
(22+20)+5 \times 3 & 42+15 & 57 \\
(121+25)+6 \times 5 & 146+30 & 176
\end{array}
$$

$\therefore$ The correct answer s opt on A.

## Question 29



A 3
B 9

C 5

D 2
Answer: A

## Instructions

For the fo ow ng quest ons answer them nd $v$ dua $y$
Question 30
Arrange the letters to form a word and suggest what is it. NGDEALN

A State

B Country

C Rer
D Ocean
Answer: B

Explanation:
Number of the etter n NGDEALN 7
So, poss b e wor d Country
( $\because$ Number of the etter $n$ Country 7)
Question 31
If $A=1, B=2$ and $N=14$, then BEADING $=$ ?

A 2154(14)97
B 2514(14)79
C 25149(14)7
D 2154(14)79
Answer: C

## Explanation:

A 1 ,
B 2
N 14,
BEADING 25149(14)7

## Question 32

If $A=1, A G E=13$, then $C A R=$ ?

A 19

B 20

C 21

D 22
Answer: D

Explanation:
A 1,
AGE $1+7+513$
CAR $3+1+18 \quad 22$
Question 33
If an electric train runs in the direction from North to South with a speed of $150 \mathrm{~km} / \mathrm{hr}$ covering 2000 km , then in which direction will the smoke of its engine go ?

A $\quad N \rightarrow S$

B $S \rightarrow N$

C $E \rightarrow W$

D No drect on
Answer: D

Explanation:
An e ectr ctrandoes not em t smoke. Therefore, no smoke w be go ng $n$ any of the drect on.
Question 34
If $1=1,2=3,3=5$, and $4=7$, then $5=$ ?

A 9

B 7

C 5

D 8
Answer: A

Explanation:
The og c s,
$11 \times 2-1 \quad 1$,
$22 \times 2-1 \quad 3$,
3 3 $\times 2-1 \quad 5$,
$44 \times 2-1 \quad 7$,
$5=5 \times 2-1=9$

## Question 35

Find the answer of the following:
$7+3=421$
$11+7=477$
$9+5=445$
$6+2=$ ?

A 444

B 412

C 475

D 487
Answer: B

Explanation:
$7+3 \quad(7-3)(7 \times 3) \quad 421$
$11+7 \quad(11-7)(11 \times 7) 477$
$9+5 \quad(9-5)(9 \times 5) \quad 445$
$6+2=(6-2)(6 \times 2)=412$
Question 36
Find the odd number out:
18, 34, 36, 54

A 34

B 54

C 18

D 36
Answer: A

Explanation:
$18 \quad 1+8 \quad 9$
$34=3+4=7$
$363+6 \quad 9$
$54 \quad 5+4 \quad 9$
$\therefore 34$ s odd.
Question 37
Introducing a girl, Ram said to his son-in-law, "Her brother is the only son of my brother-in-law." Who is the girl of Ram ?

A S ster-n-aw

B Nece

C Daughter

D S ster
Answer: B

Explanation:
In the fo ow ng d agram,

C rce represents fema e
Square represents ma e
S ng e hor zonta ne represents sbng
Doub e hor zonta ne represents coup e
S ng e vert ca ne represents Mother/Father/Son/Daughter

$\therefore$ The gr snece.

## Question 38

Which of the following are the lines of symmetry?


A $A B$ and $C D$

B EF and GH

C A of the above

D None of the above
Answer: C

## Question 39

Murthy drove from town A to town B. In the fist hour, he travelled $\stackrel{1}{4}$ of the journey. In the next one hour, he travelled $\begin{aligned} & 1 \\ & 2\end{aligned}$ In the last 30 minutes, he travelled $\mathbf{8 0} \mathbf{k m}$. Find the distance of the whole journey.

A 240 km

B $\quad 300 \mathrm{~km}$

C $\quad 320 \mathrm{~km}$

D 360 km
Answer: C

Explanation:
Let the tota journey be $x \mathrm{~km}$.
Rema n ng d stance of the journey 80 km
$x$
$\mathrm{x}-4$${ }_{2}^{x} \quad 80 \mathrm{~km}$
${ }_{4}^{x}=80$
x $\quad 320 \mathrm{~km}$

Tota d stance s 320 km of who e journey.
Question 40
Identify the answer figure from which the pieces given in question figure have been cut.
Question figure:


A


B


C


D


Answer: C

## Question 41

Which of the answer figures is not made up only by the components of the question figure?

## Question figure:



A


B


C


D


Answer: C

## Question 42

Which of the following numbers is present only in the square and the circle?


A 5
B 4

C 3

D 2
Answer: B

## Question 43

Which figure represents the relation among Computer, Internet and Information-Communication Technology?

A


B

(-9)

D


Answer: B

## nstructions

n the fo ow ng quest ons, one or two statements are g ven, fo owed by three/four Conc us ons/Arguments, I, II, III and IV. You have to cons der the statements to be true, even f they seem to be at var ance from common y known facts. You are to dec de wh ch of the
$g$ ven Conc us ons/Arguments can def $n$ te $y$ be drawn from the $g$ ven statement(s). Ind cate your answer.

## Question 44

Statements :

1. SAGE is a reputed publisher of both journals and books.
2. All publishing of SAGE is highly qualitative.

Conclusions:
I. SAGE publishes qualitative articles.
II. SAGE did not publish lowest quality articles.
III. SAGE enriches its publications by high scrutinization.

A On y conc us on III

B A concus ons

C On y conc us on I and II

D On y conc us on II and III
Answer: B

## Explanation:

A conc us on are strong.
Question 45
Statements:
Should little children be loaded with such heavy school bags?
Arguments:
I. Yes, a heavy bag means more knowledge.
II. No, heavy school bags spoil the posture of the children.
III. Yes, children need to be adapted for earning knowledge.
IV. No, a heavy bag never ensures knowledge gathering.

A I and III appear to be strong arguments
B I and III are poor arguments
C II and IV are strong arguments

D I and IV are strong arguments
Answer: C

Explanation:
II and IV are strong arguments.
Instructions
In the fo ow ng quest ons, wh ch answer $f$ gure $w$ comp ete the pattern $n$ the quest on $f$ gure?
Question 46
Question figure:


A


B


C


D


Answer: C

## Question 47

Question figure:


A


B


C


D


Answer: D

## nstructions

For the fo ow ng quest ons answer them nd $v$ dua $y$
Question 48
A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

## Question figure:



5

A


B


C


D


Answer: A

## Question 49

fa mirror is placed on the line MN, then which of the answer figures is the correct image of the question figure?

## Question figure:



A


B


C


D


Answer: D

## Question 50

In the following question, a matrix of certain characters is given. These characters follow a certain trend, row-wise or column-wise. Find out this trend and choose the missing characters accordingly.

| 9 | 10 | 5 |
| :---: | :---: | :---: |
| 5 | 6 | 4 |
| 4 | 6 | 4 |
| 536 | 660 | $?$ |

A 450

B 550

C 320

D 420
Answer: D

## General Awareness

Instructions
For the fo ow ng quest ons answer them nd v dua y
Question 51
Classification of Economics into two branches (Macro Economics and Micro Economics) was done by

A J.M. Keynes
B M ton Fr edman

C Ragnar Fr sch

D Adam Sm th
Answer: C

## Question 52

'Capital Goods' refers to goods which

A Serve as a source of ra s ng further cap ta

B Hep n the further product on of goods
C D rect y go nto the sat sfact on of human wants
D Fndmutpeuses
Answer: B

## Question 53

NNP is equal to

A GNP + Deprec at on

B GNP - Deprec at on
c GNP + Exports

D GNP - Exports
Answer: B

## Question 54

Rate of growth of an economy is measured in terms of

A Per cap ta ncome

B Industr a deve opment

C Number of peop e who have been fted above the poverty ne.

D Nat ona ncome
Answer: D

Question 55
The basic characteristic of oligopoly is

A A few se ers, a few buyers

B A few se ers, many buyers

C A few se ers, one buyer

D Many se ers, a few buyers
Answer: B

Question 56
Governor will act on the advice of Council of Ministers while

A D sso vng the Leg s at ve Assemb y
B Appo nt ng the cha rman of the State Pub c Serv ce Comm s on
C Recommend ng for Pres dent's Rue n the State

D Return ng ab for recons derat on
Answer: A

Question 57
The Supreme Court of India was set up by the

A Regu at on Act, 1773

B P tts Ind a Act, 1784

C Charter Act, 1813

D Charter Act, 1833
Answer: A

## Question 58

Which Constitutional Amendment provoided Constitutional status to Panchayat Raj Institutions?

A $93^{r d}$ Amendment

B $44^{\text {th }}$ Amendment

C $42^{\text {nd }}$ Amendment

D $73^{r d}$ Amendment
Answer: D

Question 59
Who has the power to pardon in case of capital punishment?

A PrmeMnster

B Pres dent

C Ch ef Just ce

D Attorney Genera of Ind a
Answer: B

Question 60
The Union Public Service Commission of India has been established under

A Artce 315

B Art ce 320

C Art ce 325

D Artce 335
Answer: A

Question 61
The Harappans worshipped

A Sh va, Parvath and V shnu
B Mother Goddess and Prashupath

C V shnu and Mother Goddess

D Pashupath and $V$ shnu
Answer: B

Question 62
Gandhiji started the Dandi March for

A Poorna Swaraj

B
Home-ru e

C Protest ag nst the mpos ton of Sat Tax

D Respons b e Government
Answer: C

## Question 63

The famous court poet of Akbar was

A Brba

B Tus das

C Rah m Khan

D Ba ram Khan
Answer: B

## Question 64

Who established four great Mathas at the four corners of India - Sringeri, Puri, Dwaraka and Badrinath ?

A Shankara

B Ramanuja

C Madhva

D Ramananda
Answer: A

## Question 65

The local name of Mohenjodaro is

A Mound of the $v n g$
B Mound of the great
C Mound of the dead

D Mound of bones
Answer: C

## Question 66

Which is the longest dam in India ?

A Bhakra-Nanga

B R hand

C H rakud

D Nagarjuna Sagar
Answer: C

## Question 67

The Thermal Power Plant in Tamil Nadu is

A Kundah

B Ramagundam

C Pykara

D Neyve
Answer: D

## Question 68

Which of the following regions does not come under the Mediterranean type of climate?

A Iber an Pen nsu a

B Ca forn a coast
C Ch ean coast

D Eastern coast of South Afr ca
Answer: D

Question 69
The main cause of faulting is

A Tens on

B W nd

C Tda act vty

D Grav tat ona force
Answer: A

Question 70
'Pan America' refers to

A North Amer ca

B South Amer ca

C Centra Amer ca

D A the above
Answer: D

Question 71
Most primitive living vascular plants are

A Browna gae
B Cycas

C
ems

D Sphabnum
Answer: C

Question 72
Temporary wilting occurs in plants due to

A Resp rat on

B Transp rat on
C Photosynthes s

D Absorpt on of water
Answer: B

Question 73
Lichens are a symbiotic association of

A A gae and Fung

B Bacter a and Fung

C Bacter a and A gae
D Fung and H gher p ants
Answer: A

Question 74
Photophobia is caused by the deficiency of

A VtamnB1
B VtamnB2
C V tamnB4

D V tamnB6
Answer: B

Question 75
Which of the following is pressent only in plant cell?

A Ce membrane

B M tochondra

C Ce wa

D Endop asm c ret cu um
Answer: C

## Question 76

The yellow colour of mangoes is due to the presence of

A Ch orophy

B Anthocyan n

C Anthoxanth n

D Carotene
Answer: D

## Question 77

Lunar eclipse is caused by shadow of the

A Earth on the Moon

B Moon on the Sun

C Earth on the Sun

D Earth and the Moon on other stars
Answer: A

## Question 78

The largest planet in the solar system is

A Venus

B Mars

C Jup ter

D Earth
Answer: C

## Question 79

Asteroid belt is a region in the solar system that exists between the orbits of

A Venus and Mars
B Mars and Jup ter

C Mercury and Earth

D Jup ter and Uranus
Answer: B

Question 80
Electrocardiograph (ECG) is used to measure

A B ood Count

B Heart Beat
c Temperature

D Eectr cty
Answer: B

Question 81
USB stands for

A Un que Ser a Bus

B Unversa Ser a Bus
C Unary Ser a Bus
D Un versa Secondary Bus
Answer: B

## Question 82

In computer network terminology, WAN stands for

A Wor d area network
B W de area network
C W de array net
D W re ess area network
Answer: B

## Question 83

Which element produces hydrogen on reaction with strong alkali ?

A S
B C
C P
D S
Answer: D

## Question 84

Which metal does not react with dilute $\mathrm{H}_{2} \mathrm{SO}_{4}$ ?

A Pb

B Fe

C Zn
D Mg
Answer: A

## Question 85

The unit of rate of reaction is

A Mo t ${ }^{1}$ sec ${ }^{1}$
B Secmo ${ }^{1}$

C Moes sec ${ }^{1}$

D Jou es sec ${ }^{1}$
Answer: A

Question 86
Salt that dissolves in aqueous ammonia solution is

A $\mathrm{HgCl}_{2}$
B $\mathrm{PbCl}_{2}$

C $\mathrm{Cu}(\mathrm{OH})_{2}$
D $\mathrm{Al}(\mathrm{OH})_{3}$
Answer: C

## Question 87

Residence time of water molecule in the ocean is

A 3.5 years
B 3.5 m on years
C 35 years
D 35000 years
Answer: C

Question 88
Biotic environment includes

A Producers

B Consumers
C Decomposers

D A the above
Answer: D

## Question 89

A natural phenomenon that becomes harmful due to pollution is

A G oba warm ng

B Eco og ca ba ance

C Greenhouse effect

D Desert fat on
Answer: C

Question 90
Decomposers include

A Bacter a

B Fung

C Both Bacter a and Fung

D Anmas
Answer: C

## Question 91

Who said about religion that "it is the opium of the masses"?

A Hter

B Sta n

C Len n

D Marx
Answer: D

## Question 92

The first woman in the world to have climbed Mt. Everest twice is

A Bachendr Pa
B Mo y Chacko
C Santosh Yadav
D Theres a K es
Answer: C

## Question 93

What is the basic foundation of

A Po tca campagns

B Soc a movements

C Re gon and mora ty

D Freedom of the nd $v$ dua
Answer: D

## Question 94

Amir Khusran was a famous poet in the court of

A Akbar

B Shahjahan

C Ibrah m Lodh

D A audd n Kh j
Answer: D

## Question 95

In the year 1905, Gopal Krishna Gokhale founded the

A Servants of Ind a Soc ety

B As at c Soc ety

C Brahmo Samaj

D Bharat Sewak Samaj
Answer: A

Question 96
Gandhiji believed that Satyagraha is a weapon of

A the poor
B the weak
C the untochab es

D the brave
Answer: D

Question 97
Pt. Shiv Kumar Sharma is an exponent of

A Mando n

B Santoor

C Star

D Veena
Answer: B

Question 98
Patanjali is well-known for the compilation of

A Yogasutra
B Panchatantra

D Ayurveda
Answer: A

Question 99
Which of the following Presidents of America abolished Slavery?

A Abraham Lncon

B Thomas Jefferson

C Geoge Wash ngton
D Stan ey Jackson
Answer: A

Question 100
Who is the first woman cosmonaut of the world

A Va ent na Tereshkova

B Mar a Este a Peron

C Svet ana Sav tskaya

D Kay Cotte
Answer: A

## General Engineering (Mechanical)

Instructions
For the fo ow ng quest ons answer them nd $v$ dua $y$
Question 101
Which law of motion (of Newton) gives the measure of force?

A Newtonsfrst aw

B Newton s second aw

C Newton s th rd aw

D None of these
Answer: B

Question 102
The shear stress at the centre of a circular shaft undertorsion is

A max mum

B mnmum

C zero
unpred ctab e

Answer: C

## Question 103

The direction of frictional force acting on a body which can slide on a fixed surface is

A $n$ the d rect on of mot on

B norma to the d rect on of mot on

C unpred ctab e

D oppos te to the d rect on of mot on
Answer: D

## Question 104

What strength of the material is to be considered for design of a ductile component undercyclic load ?

A Ut mate strength

B Yedstrength

C Endurance strength

D Fracture strength
Answer: C

## Question 105

For any given power and permissible shear stress, the rotational speed of shaft andits diameter are correlated by the expression

A $N D^{3}=$ constant

B $N D^{2}=$ constant
C $N D=$ constant

D $\sqrt{N D}=$ constant
Answer: A

Question 106
The angle turned by a wheel while it starts from rest and accelerates at constantrate of $3 \mathrm{rad} / \mathrm{s}^{2}$ for an interval of 20 sec is

A 900 rad

B 600 rad

C 1200 rad

D 300 rad
Answer: B

Question 107
Stress due to change in temperature developed in a bar depends upon

A coeff c ent of therma expans on

B therma conduct $v$ ty

C densty

D Po sson s rato
Answer: A

Question 108
Strength of the beam depends on

A Bend ng moment

B Dens ty

C Sect on modu us

D c.g. of the sect on
Answer: C

Question 109
A reversible heat engine working at the rate of 100 kW has an efficiency of $20 \%$. The magnitudes of heat transfer rate from the source and to the sink in kW would be, respectively,

A 200, 100

B 300, 200

C 500,400

D 1000, 900
Answer: C

Question 110
The friction between objects that are stationary is called

A statc fret on

B ro ng fret on

C $k$ net c frct on

D dynam c fret on
Answer: A

Question 111
Fatigue of a component is due to

A cyc c oad

B stat c oad

C constant heat ng

Answer: A

## Question 112

If $V_{i}$ be the inlet absolute velocity to blades, $V_{b}$ be the tangential blade velocity and $\alpha$ br the nozzle angle, then for maximum blade efficiency for single-stage impulse turbine

A $\quad V_{b}^{V_{b}}=\cos \alpha$

B $\quad V_{b}=\cos \alpha$

C $\quad V_{b}=\cos ^{2} \alpha$

D $\quad V_{b}=\begin{gathered}\cos ^{2} \alpha \\ 2\end{gathered}$
Answer: B

## Question 113

In diesel engines, the duration between the timeofinjection andignition, is known as

A pre-gnt on per od

B de ay per od

C gnt on per od

D burn ng per od
Answer: B

## Question 114

The process of supplying the in take air to the engine cylinder at a density more than the density of the surrounding atmosphere is known as

A seavengng

B detonat on

C supercharg ng

D po ymer sat on
Answer: C

## Question 115

Which of the following expressions gives the entropy change in an isobaric heating process from $T_{1}$ to $T_{2}$ ?

A $m C p \ln {\underset{T}{T}}_{T_{1}}^{T_{2}}$

B $m C p\left(T_{2}-T_{1}\right)$

C $m C p{ }^{\left(T_{2}{ }_{T_{0}}{ }_{1}\right)}$

D $m C p\left(T_{1}+T_{2}\right)$

Answer: A

Question 116
Morsetest is conducted on

A vert ca eng nes

B hor zonta eng nes

C s ng e cy nder eng nes

D mut cy nder eng nes
Answer: D

## Question 117

In spark ignition (SI) engines, the possibility of knockingcari be reduced by

A ncreas ng compress on rat o

B decreas ng compress on rato

C ncreas ng the coo ant temperature

D advanc ng the spark tm ng
Answer: B

## Question 118

Higher compression ratio in diesel engine results in

A ower temperature
B ower pressure

C same pressure

D h gher pressure
Answer: D

## Question 119

What salts of calcium and magnesium cause temporary hardness of boiler feed water?

A Ch or des

B B carbonates

C N trates

D Su ph tes
Answer: B

## Question 120

Which of the following does not relate to steam engine?

A Crank shaft

B
Cross head

C Steam chest
D Steam separator
Answer: D

## Question 121

Self-ignition temperature of diesel a compared to petrol

A shgher

B s ower

C s same

D var es cons deraby
Answer: A

Question 122
The binding material used in cemented carbide tools is

A N cke

B Cobat

C Chrom um
D Carbon
Answer: C

Question 123
The water hammer pressure in a pipe can be reduced by

A us ng p pe of greater $d$ ameter

B us ng a more e ast c p pe

C us ng p pe of greater wa th ckness

D ncreas ngtheve oc ty of pressure wave
Answer: B

## Question 124

When a fluid is in motion, the pressure at a point is same in all directions. Then thefluid is

A Rea fud

B Newton an fud

C Idea fud

D Non-Newton an fud
Answer: C

## Question 125

Density of water is maximum at

A $0^{\circ} C$

B $4 K$

C $4^{\circ} \mathrm{C}$

D $100^{\circ} \mathrm{C}$
Answer: C

Question 126
The ability of a tool materialto resist shock or impact forces is known as

A wear res stance

B toughness

C red hardness

D mach nab ty
Answer: B

Question 127
The tool material which has high heat and wear resistance is

A Ceram cs

B Cemented carb de

C Carbon stee s

D Med um a oy stee
Answer: B

Question 128
To improve the surface finish of castings, the following additive is used in the moulding sand :

A Resns

B 0 s

C Wood four

D Sea coa
Answer: D

Question 129
Cereals are added to the moulding sand to improve the following:

A Poros ty

C Hot strength

D Edge hardness
Answer: B

Question 130
Plastic toys are usually produced by using

A she moudng

B green sand mou d ng

C p aster mou d ng

D nject on mou dng
Answer: D

Question 131
Generally used fuel gas in gas welding is

A $\quad N_{2}$

B $\mathrm{CO}_{2}$

C $\mathrm{C}_{2} \mathrm{H}_{2}$

D He
Answer: C

## Question 132

Spot welding, projection welding and seam welding belongto the category of

A e ectr c res stance we dng

B forge we dng

C therm t we dng

D arc we d ng
Answer: A

Question 133
Which one of the following is an example of solid state welding?

A Gas we d ng

B Arc we dng

C Therm twe dng

D Forge we d ng
Answer: D

## Question 134

The shape andsize of sand grains affects the following property :

A Adhes veness

B Poros ty

C Refractor ness

D Strength
Answer: B

Question 135
The velocity distribution for flow over a flat plate is given by $u=\left(y-y^{2}\right)$ in whichu is velocity in metres per second at a distance y metres above the plate. What is the shear stress value at $\mathrm{y}=0.15 \mathrm{~m}$ ? The dynamic viscosity of fluid is 8.0 poise.

A $\quad 12.4 \mathrm{~N} / \mathrm{m}^{2}$

B $\quad 1.24 \mathrm{~N} / \mathrm{m}^{2}$
C $\quad 0.56 \mathrm{~N} / \mathrm{m}^{2}$

D $\quad 5.6 \mathrm{~N} / \mathrm{m}^{2}$
Answer: C

Question 136
Froude's Number relates to

A nert a force and grav ty force

B nert a force and pressure forc
C nert a force and surface tens on force

D nert a force ande ast c force
Answer: A

Question 137
In pitot-tube the velocity of flow at a point is reduced to zero. That pointis called as

A stagnat on pont

B crtca pont

C metacentre

D equ brum pont
Answer: A

Question 138
The velocity distribution in a pipe flow is parabolic if the flow is

A un form, turbu ent
un form, am nar

C non-un form, steady

D rotat ona, compress be
Answer: B

Question 139
Mercury does not wet the glass surface. This property of mercury is due to

A adhes on

B cohes on

C surface tens on

D v scosty
Answer: C

Question 140
Loss of head due to friction in a uniform diameter pipe with viscousflow is

A $R e$

B $\quad \begin{gathered}1 \\ R e\end{gathered}$
C $\quad \stackrel{4}{R e}$

D $\quad \begin{aligned} & 16 \\ & R e\end{aligned}$
Answer: D

Question 141
Maximum theoretical efficiency of Pelton wheel is obtained when the ratio of bucket speed to jet speed is

A 0.26

B 0.98

C 0.46

D 0.58
Answer: C

Question 142
The velocity at a point on the crest of a model dam was measured to be $1 \mathrm{~m} / \mathrm{s}$. The corresponding prototype velocity for a linear scale ratio of 25 , in $\mathrm{m} / \mathrm{s}$, is

A 25

B 2.5

C 5

D 0.04

Answer: C

Question 143
Pressure force on the 15 cm diameter headlight of an automobile travelling at $0.25 \mathrm{~m} / \mathrm{s}$ is

A $\quad 10.4 \mathrm{~N}$

B 6.8 N

C 4.8 N

D 3.2 N
Answer: B

Question 144
A piece of metal of specific gravity 7 floats in mercury of specific gravity 13.6. What fraction of its volume is under mercury?

A 0.5

B 0.4

C 0.515

D 0.415
Answer: C

Question 145
The friction head lost due to flow of a viscous fluid through a circular pipe of length $L$ and diameter $d$ with a velocity $v$ and pipe Fanning friction factor $f$ is

A $\begin{gathered}4 f L \\ d\end{gathered} v^{2}$

B $\begin{array}{cc}4 f L & v^{2} \\ \pi d^{2} & 2 g\end{array}$

C $\quad \begin{array}{r}v^{2} \\ 2 g\end{array}$

D | $4 f L \quad v^{2}$ |
| :---: |
| $\pi d$ |
| $2 g$ |

Answer: A

Question 146
The ratio of pressures between two points $A$ and $B$ located respectively at depths 0.5 m and 2 m below a constant level of water in a tank is

A 1:1

B 1:2

C 1:4

D 1:16
Answer: C

Question 147
A hydraulic turbine runs at 240 rpm under a head of 9 m . Whatwill be the speed (in rpm) of the turbineif operating head is 16 m ?

A 320

B 426

C 264

D 230
Answer: A

## Question 148

The discharge of a liquid of kinematic viscosity $4 \times 10^{2} \mathrm{~m}^{2} / \mathrm{s}$ through a 80 mm diameter pipe is $3200 \pi \times 10{ }^{4} \mathrm{~m}^{3} / \mathrm{s}$. The flow is

A am nar
B turbu ent

C transton

D crtca
Answer: A

## Question 149

Assertion (A) :
If a hot metal ball is quenched in a liquid of low temperature, heat transfer will take place from metal ball to liquid and not in the reverse direction.
Reason(R) :
Heat transfer process from hot metal ball to liquid 'at lower temperature complies with the increase of entropy principle i.e. $S$ gen $\geq 0$ and the reverse process does not.

A Both $A$ and $R$ are true and $R$ s the correct exp anat on of $A$

B Both $A$ and $R$ are true, but $R$ s not the correct exp anat on of $A$

C A s true, but R s fa se

D R s true, but A sfase
Answer: A

## Question 150

The boiling and freezing points for water are marked on a temperature scale P as $130^{\circ} \mathrm{P}$ and $-20^{\circ} \mathrm{P}$ respectively. What will be the reading on this scale corresponding to $60^{\circ} \mathrm{C}$ on Celsius scale ?

A $60^{\circ} \mathrm{P}$

B $70^{\circ} \mathrm{P}$
C $90^{\circ} \mathrm{P}$

D $110^{\circ} P$
Answer: B

Question 151
In a reaction turbine, the heat drop in fixed bladeis $8 \mathrm{~kJ} / \mathrm{kg}$ and total heat drop per stage is $20 \mathrm{~kJ} / \mathrm{kg}$. The degreeof reaction is

A $40 \%$

B $60 \%$

C $66.7 \%$

D $80 \%$
Answer: B

## Question 152

A closed balloon containing 10 kg of helium receives $5 \mathrm{~kJ} / \mathrm{kg}$ of heat. During this process, the volume of the balloon slowly increases by $0.2 \mathrm{~m}^{3}$ at constant pressure of 100 kPa . The changein internal energy,in kJ , is

A 10

B 20

C 30

D 70
Answer: C

Question 153
A gas in a container $A$ is in thermal equilibrium with anothergas of the same mass in container $B$. If the corresponding pressures and volumes are denoted by suffixes $A$ and $B$, then which of the following statements is true ?

A $P_{A} \neq P_{B} ; V_{A}=V_{B}$
B $\quad P_{A}=P_{B} ; V_{A} \neq V_{B}$
C $\quad \stackrel{P_{A}}{V_{A}}=\stackrel{P_{B}}{V_{B}}$

D $\quad P_{A} V_{A}=P_{B} V_{B}$
Answer: D

Question 154
A liquid flows from low level $Z_{1}$, pressure $P_{1}$, to a higher level $Z_{2}$, pressure $P_{2}$. It can be concluded

A frst aw of thermodynam cs has been vo ated

B second aw of thermodynam cs has been vo ated

C $Z_{2}<Z_{1}$

D $\quad P_{2}<P_{1}$
Answer: D

Question 155
The food compartment of a refrigerator is maintained at $4^{\circ} \mathrm{C}$ by removing heatfrom it at a rate of $360 \mathrm{~kJ} / \mathrm{min}$. If the required power input to the refrigerator is $\mathbf{2 k W}$, the COP of the refrigerator is

A 2.0
B $\quad \stackrel{1}{3}$

C 0.5

D 3.0
Answer: D

Question 156
For a 4-stroke diesel engine, the compression ratio is $21: 1$ and the cut-off ratio is $2: 1$. What is its expansion ratio ?

A 7:1

B 10.5:1

C $12: 1$

D 19:1
Answer: B

Question 157
A ball is dropped vertically downwards, it hits the floor with a velocity of $9 \mathrm{~m} / \mathrm{s}$ and bounces to a distance of 1.2 m .Coefficient of restitution between the floor and the ball is

A 0.54

B zero

C 1

D 0.27
Answer: A

Question 158
For a material with Poisson's ratio 0.25 , the ratio of modulus of rigidity to modulus of elasticity will be

A 04

B 1.2

C 2.0

D 3.6
Answer: A

## Question 159

If equal and opposite forces applied to a body tend to elongate it, then the stress produced is

A tens e stress

B bend ng stress

C compress ve stress

Answer: A

## Question 160

What type of contact occurs during meshing of helical gears?

A Pont

B Lne

C Area

D Voume
Answer: A

## Question 161

Which one of the following drives is used for transmitting power without slip ?

A Betdrves

B Rope dr ves
C Conepu eys

D Chandrves
Answer: D

Question 162
The contact between cam and follower is to form a

A ower par
B h gher par

C s dng par

D ro ng par
Answer: B

Question 163
Which of the following is antifriction bearing?

A Need e bear ng
B Pedesta bear ng

C Co ar bear ng

D Hydrostat c bear ng
Answer: A

Question 164
Helical gears have their teeth

A nc ned to whee rm

B stra ght over the whee r m

C curved over the whee rm

D cut on the surfaces of the frusta of cones
Answer: A

## Question 165

When the speed of governor increases, then

A he ght of governor and rad us of rotat on ncrease

B he ght of governor and rad us of rotat on decrease
C he ght of governor decreases but rad us of rotat on ncreases
D he ght of governor ncreases but rad us of rotat on decreases
Answer: C

## Question 166

A body of weight 30 N rests on a horizontal floor. A gradually increasing horizontal force is applied to the body which just starts moving when the force is 9 N . The coefficient of friction between the body and the floor will be

A $\begin{gathered}10 \\ 3\end{gathered}$

B $\begin{gathered}3 \\ 10\end{gathered}$

C $\quad 1 \begin{array}{r}1 \\ \hline\end{array}$

D $\quad \begin{array}{r}1 \\ 9\end{array}$
Answer: B

Question 167
A body of weight $W$ is placed on a rough inclined plane. The inclination of'the plane with the horizontal is less than the angle of friction. The body will

A be nequ brum

B move downwards

C move upwards

D None of the above
Answer: A

## Question 168

An adiabatic process in a thermodynamic system is one in which there is

A a m ted heat transfer to or from the system through the boundary

C no energy transfer to or from the system through the boundary

D no nterna energy change $n$ the system
Answer: B

## Question 169

A device used to increase the temperature of saturated steam withoutraising its pressureis called

A fusbepug

B econom ser

C b owoff cock

D superheater
Answer: D

## Question 170

Maximum diagram efficiency for Parson's reaction turbine is given by

A $\left.\begin{array}{c}2 \cos ^{2} \alpha \\ (1 \quad \cos \alpha\end{array}\right)$

B $\quad \cos ^{2} \alpha$
$(1 \quad 2 \cos \alpha)$

C $\left.\quad \begin{array}{c}\cos ^{2} \alpha \\ 2 \\ 2 \cos ^{2} \alpha\end{array}\right)$

D $\left.\begin{array}{c}2 \cos ^{2} \alpha \\ 2 \cos ^{2} \alpha\end{array}\right)$

Answer: D

## Question 171

In an isothermal process, the internal energy

A a ways ncreases

B a ways decreases

C ncreases or decreases

D rema ns constant
Answer: D

Question 172
Which of the following is a boiler mounting?

A Safety va ve

B Econom zer

C Superheater

Feed pump
Answer: A

## Question 173

Which part of a petrol engine would need modifications if the engineis to be madeto run on LPG?

A Pston

B Crank shaft

C Vaves

D Carburettor
Answer: D

Question 174
The compression ratio for a practical diesel engineusually lies in the range

A 5-7

B 7-9
C 10-15
D 16-22
Answer: D

## Question 175

For a four-cylinder engine,the firing order for evennessof torque is

A 1-2-3-4

B 1-3-2-4

C 1-4-3-2

D 1-3-4-2
Answer: D

Question 176
The drag coefficient is defined as

A
$\underset{\left(\begin{array}{c}F D \\ A \\ 2\end{array}\right)}{\rho v_{0}}$

B $\quad \begin{gathered}A \\ 2 \rho v_{0}\end{gathered}$

C $\quad \begin{gathered}\left.{ }_{\left(0.5 \rho v_{0}^{2}\right.}\right)\end{gathered}$

D $\left.\quad \begin{array}{c}{ }_{(0.5}^{D_{2}} \\ v_{0}\end{array}\right)$
Answer: D

Question 177
The length of the divergent portion of venturimeter in comparison to convergent portion is

A same

B more

C ess

D depend ng upon the type of $f$ ow
Answer: B

## Question 178

The delay period in a petrol engine is of the order of

A 0.001 sec
B 0.002 sec

C 0.01 sec
D 0.05 sec
Answer: B

## Question 179

Octane number of iso-octane is

A 50
B 70

C 0

D 100
Answer: D

## Question 180

The silencer of an IC engine

A reduces no se
B decreases brake spec fc fue consumpt on
C ncreases brake spec $f \mathrm{c}$ fue consumpt on
D has no effect on eff cency
Answer: A

## Question 181

Figure shows a four bar chain and the number indicates the respective link lengths in cm . The type of the mechanism is known as


A s der crank

B doub e crank

C crank rocker

D doub e rocker
Answer: B

Question 182
A slider sliding at $10 \mathrm{~cm} / \mathrm{s}$ on a link which is rotating at 60 rpm , is subjected to Coriolis acceleration of magnitude, in $\mathrm{cm}{ }^{2} / \mathrm{s}$,

A $20 \pi$

B $10 \pi$

C $40 \pi$

D $80 \pi$
Answer: C

Question 183
The twining moment $(T)$ delivered by a flywheel with respect to its angular displacement is given by the following expression: $T=14000+7000 \sin \theta$
The values of $\theta$ for which delivered torque is equal to mean torque for a single cycle are

A $0^{\circ}, 180^{\circ}, 360^{\circ}$

B $90^{\circ}, 270^{\circ}, 360^{\circ}$

C $90^{\circ}, 270^{\circ}, 180^{\circ}$

D $0^{\circ}, 270^{\circ}, 360^{\circ}$
Answer: A

Question 184
The shearing strength ofa rivet is $50 \mathrm{~N} / \mathrm{mm}^{2}$. If the diameterofthe rivet is doubled, thenits shearing strength will be

A $100 \mathrm{~N} / \mathrm{mm}^{2}$
B $\quad 200 \mathrm{~N} / \mathrm{mm}^{2}$

C $50 \mathrm{~N} / \mathrm{mm}^{2}$

D $300 \mathrm{~N} / \mathrm{mm}^{2}$
Answer: B

## Question 185

A differential gear in an automobileis a

A smpe gear tran
B ep cyc c gear tran

C compound gear tra n

D speed reducer
Answer: B

## Question 186

Creep in belt drive is due to

A weak mater a of the be $t$
B weak mater a of the pu ey
C uneven extens ons and contract ons of the be $t$ when $t$ passes from $t$ ght to $s$ ack $s$ de

D expans on of the be $t$
Answer: C

## Question 187

The crank shaft turning in a journal bearing forms a

A turn ng par
B sdngpar
C ro ng par
D he ca par
Answer: A

## Question 188

Name the mechanism in which the Coriolis component of acceleration is to be considered.

A Quck return mot on mechan sm
B Four-bar mechan sm
C S der crank mechan sm

D Beam eng ne
Answer: A

## Question 189

Bevel gears are used to transmit rotary motion between two shafts whose axes are

A Perpend cu ar

B Para e

C Non- ntersect ng

D Non-cop anar
Answer: A

Question 190
The coefficient of discharge $\left(c_{d}\right)$ of an orifice varies with

A Weber number

B Mach number

C Reyno ds number

D Froude number
Answer: C

Question 191
Using Blasius equation, the friction factor for turbulent flow through pipes varies as

A $R e^{1}$

B $R e^{0.5}$
C $R e^{0.33}$

D $R e^{0.25}$
Answer: D

Question 192
The specific speed ( $N_{S}$ ) of a centrifugal pump is given by

A | $\begin{array}{c}N \sqrt{2} \\ H^{3}\end{array}$ |
| :---: |

B $\begin{gathered}N \sqrt{3} \\ H^{4}\end{gathered}$

C $\quad \begin{array}{r}N \sqrt{ } Q \\ H\end{array}$

D $\begin{gathered}N \sqrt{Q} \\ H^{4}\end{gathered}$

Answer: B

Question 193
Pressure intensity inside the water droplets is (where $\sigma$ - surface tension, d - diameter of bubble)

A $p={ }^{8 \sigma}$

B $p={ }_{d}^{2 \sigma}$
C $p={ }_{d}^{4 \sigma}$
D $p={ }_{d}^{\sigma}$
Answer: C

Question 194
The length of a rectangular weir is L and height $H_{1}$. The maximum depth of water on the upstream side of the weir is H . Flow rate ovel the notch $(Q)$ is

A $Q={ }_{3}^{2} c_{d} L \sqrt{2 g} H^{\frac{5}{2}}$
B $\quad Q={ }_{3}^{2} c_{d} L \sqrt{2 g}\left(H-H_{1}\right)^{\frac{5}{2}}$
C $Q={ }_{3}^{2} c_{d} L \sqrt{2 g} H^{2}$
D $Q={ }_{3}^{2} c_{d} L \sqrt{2 g}\left(H-H_{1}\right)^{3}$
Answer: D

## Question 195

Low specific speed of a turbine implies that it is

A Prope er turb ne
B Franc s turb ne
C Impu se turb ne

D Kap an turb ne
Answer: C

## Question 196

Flow of water in a pipe about 3 metres in, diameter can be measured by

A Orfcepate
B Ventur

C P tot tube

D Nozze
Answer: C

## Question 197

In a pitot tube, at the stagnation point

A pressure s zero
B tota energy s zero
C pressure head s equa to ve oc ty

Answer: D

## Question 198

Navier - Stokes equations are associated with

A Buoyancy

B Superson c fow

C Vortex fow

D V scous fow
Answer: D

## Question 199

A hydrometer is used to determine

A re at ve hum dty

B surface tens on of qu ds

C spec fc grav ty of qu ds
D vscosty of qu ds
Answer: C

## Question 200

In flow through a pipe, the transition from laminar to turbulent flow does not depend on

A ve oc ty of the fud

B dens ty of the fud

C ength of the ppe
D d ameterof the p pe
Answer: C

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