SSC JE

Previous Year Paper (Mechanical) 16 Nov 2022 Shift 2

Junior Engineer Civil Mechanical Electrical amd Quantity Surveying and Contracts Examination 2022

Roll Number	
Candidate Name	
Venue Name	
Exam Date	16/11/2022
Exam Time	1:00 PM - 3:00 PM
Subject	Junior Engineer 2022 Mechanical

Section: General Intelligence and Reasoning

Q.1 Select the option that indicates the correct arrangement of the given words in a logical and meaningfull onder.

- 1. Campoett
- 2. Cæilingg
- 3. Bed
- 4. Floor

5. Fæm

X 2. 2, 1, 4, 3, 5

3. 4, 1, 3, 5, 2

X 4. 4, 2, 1, 5, 3

Question ID: 26433074668

Status: 26/45/00/724668 Chosen Option: Answered

Q.2 Pointing at a lady, Sheela said, "She is my only brother's daughter's father's mother." How is Q.2 Prointing at a lady, Sheela said, "She is my only brother's daughter's father's mother." How is

that lady related to Sheela? Ans

Ans

X 2. Daughter

X 3. Sister

X 4. Mother's sister

Question ID: 26433068536

Status: 46434169566d and

Morr Kette From tBelview

Chosen Option : Marked For Review

Q.3 In a certain code language, 'EASY' is written as '64' and 'CAMP' is written as '47'. How will

Q.3 IABET/taenwoottlenlangbagte/figA@des/written as '64' and 'CAMP' is written as '47'. How will

T be written in that language? Ans

Ans

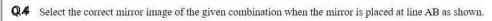
2. 42

X 3.44

4. 32

Question ID: 26433056661

Status: 26/15/30/566661 Chosen Option : Answered





Ams

- F 1 y 6 & B .1
- 2. 8E9Y11
- Fty63B .E
- Ft & 63 B .4

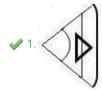
Question ID : 26433057872 Status : Answered

Chosen Option : 3

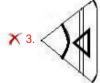
Q5 Select the option that will replace the question mark (?) in the given figure to complete the pattern.



Ans









Question ID : 26433058055 Status : Answered

Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.

Ans

X 1.

X 2.

X 3.

X 4.

Question ID : **26433057806** Status : **Answere**d

Chosen Option : 2

Q.7 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



Arms

- b37kde 1
- 2 ab N L Ed
- P37kda E
- **b37kda**.4

Question ID : 26433055959

Status: Answered

Tiwo statements are given, followed by two conclusions an unbered and III Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically/follow(s)/from the statements. Statements: All ships are boats. Some ships are cargo.

Condusions:

I. Some boats are cargo.

II. All boats are ships.

X 1. Both conclusions I and II follow Ans

2. Only conclusion I follows

X 3. Only conclusion II follows

X 4. Neither conclusion I nor II follows

Question ID: 26433056699

Not Attempted and Status: Marked For Review

Chosen Option : ==

Q.9 Which of the following numbers will replace the question make (?) pad complete the giginen number series??

38, 57, 74, 93, 110, ?

Ans

X 1. 118

X 2. 127

3. 129

X 4. 139

Question ID : 26433067467

Status: Answered

Chosen Option : 3

Q.10 Which of the following numbers will replace the question mark (?) in the given series?

3, **9**,1**5**,3**3**36**6**3??

Ans

X 1. 142

X 2. 124

X 3. 192

4. 129

Question ID: 26433059916

Status: Answered

Chosen Option : 4

Q.1111 Salect the option that is related to the fourth term in the same way as the first term is related to the second term and fifth term is related to sixth term.

52:5::?:6::100:7

X 1.61 Ans

X 2.72

X 3.96

4. 74

Question ID : 26433057504

Status : Not Attempted and

Marked For Review

Q.112 Select the set in which the numbers are related in the same way as a rether numbers of the following set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13—Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing multiplying etc. to 13 can be performed.

(15, 56, 13) (8, 15, 7)

X 2. (13, 99, 9)

X 3. (17, 69, 15)

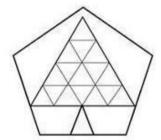
X 4. (12, 100, 7)

Question ID : 26433067931

Status : Not Attempted and Marked For Review

Chosen Option: ==

Q.118 How many triangles are there in the given figure?



Ans

1. 28

X 2. 27

X 3. 24

X 4. 25

Question ID : 26433057976

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.114 Select the word-pair in which the two words are related in the same way as are the two words in the given pair.

(The words must be considered as meaningful English words and must not be related to each ofther basseloom the number of letters in umber of consonaists were is not the word; d)

Collossall::Encormodis

Ans X 1. Jumble : Order

X 2. Exigent: Ordinary

3. Deceit : Fraud

X 4. Diligent : Inactive

Question ID : 26433068480

Status : Not Attempted and

Marked For Review

Q.15 Select the correct option that indicates the arrangement of the following words imallogical and meaningful order (From Schalalld & Big) 1.Riveer 2.0cean 3.Pond 4.Sea 5.Lalke 1. 5, 1, 3, 4, 2 Ans 2. 3, 5, 1, 4, 2 **X** 3. 3, 4, 5, 1, 2 **X** 4. 3, 1, 5, 4, 2 Question ID : 26433067760 Status: Answerend Chosen Option : 2 Q.16 Which of the given letter-clusters will replace the question mark (?) in the following series? FVYAAJTWOD,RURJJGRNONIQM X 1. OPTJ X 2. OTSI X 3. OPSI 4. OPSJ Question ID : 26433056138 Status : Answered Chosen Option : 1 Which of the given letter-clusters will replace the question mark ((?)) in the following series? CHIAN, EEKISBING GIOLO, Q, KITENTEY Ans X 1. IRDV X 2. JRDV X 3. IRDU Question ID : 26433056128 Status : Answered Chosen Option : 4 Q.118 Select the option that represents the correct or derofit leggiven words as they would appear in am English dictionary. 1.Stalker 2. Station 3.Stammer 4. Stathbeat 5.Strange 6.Strlings 7. Stacked Ans **X** 1. 4, 7, 1, 3, 2, 6, 5 **X** 2. 4, 7, 1, 3, 5, 2, 6 **3**. 4, 7, 1, 3, 2, 5, 6 **X** 4. 7, 4, 1, 3, 2, 5, 6 Question ID : 26433067546

Status: Answered

Q.19 Select the set in which the numbers are related in the same way as a rether numbers of the given sets.

(NOTIE:: Operations stroubblibe performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 1/3 - Operations on 13 such as adding /subtracting /multiplying etc. to 1/3 can be performed. Breaking down 1/3 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed).)

(6, 5, 35) (8, 4, 36)

Ans 1. (7, 9, 72)

X 2. (10, 6, 60)

X 3. (4, 8, 36)

X 4. (9, 5, 45)

Question ID : 26433057080 Status : Answered

Chosen Option : 1

Q.20 In a code language, 'GATHER' is written as '20-26-7-19-22-9' and 'DISPERSET is written as '23-18-8-1112229-9-8-22H blow Will COOSTS ARATTS be well that being that being age age?

Ams

1. 24-12-13-8-7-9-26-18-13-7

X 2. 24-12-13-9-8-7-26-18-13-7

X 3. 24-11-13-7-8-9-26-18-13-7

X 4. 24-13-12-8-7-9-26-13-18-7

Question ID : 26433056751

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.21 Select the word-pair in which the two words are related in the same way as are the two words in the given pair.

(The words must be considered as meaningful English words and must not be related to each other basseborn the number of dates; a four beopt consonaists www.lsnither.word.)d)

Lucid:: Rationad l

Ans X 1. Molest : Console

X 2. Malice : Kindness

3. Numerous : Profuse

X 4. Morbid : Healthy

Question ID : 26433068478

Status: Not Attempted and

Marked For Review

Q.22 Select the option that is related to the third world in the same way as the second worlds related to the first world. (The words must be considered as meaningful English words and must not be related to each other based on the number of detects a unaber of consonants/vowels in the word)) Needle: Sew :: Spanner:? 1. Grip Ans X 2. Scoop X 3. Hold X 4. Carve Question ID: 26433067349 Status: Answered Chosen Option : 2 Q.23 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE:: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 113-Operations on 13 such as adding/subtracting /multiplying etc. to 13 cam be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 11 and 33 is no otal boweld.) (17, 136, 7) (12, 120, 9) Ans **X** 1. (11, 99, 9) **X** 2. (16, 85, 5) **X** 3. (15, 125, 7) **4**. (14, 126, 8) Question ID: 26433057084 Not Attempted and Status: Marked For Review Chosen Option : == Q.24 Seven people A, B, C, D, EEF Fand G Grare is titing in a asstraight now, facing north. Only five people are sitting in between G and E. F is an immediate neighbour of flooth Gand A. Only four people are sitting to the right of A. Who is sitting on the extreme left? Ans X 1. D ✓ 2. G X 3. B X 4. E Question ID : 26433056043 Status: Answered Chosen Option : 2 Q.25 Ima certaincodedaggage, TAXPAYER' is writtenass' UCYREART' and "TAXATION" is writtenass "UCXCOURPPH blow will ENEDENGY betweitten hat hat danguage? Ans 1. UGOEFPCA 2. UGOFFPDA X 3. UGOFFPCB X 4. UHOFFPDA Question ID : 26433056663 Status : Answered Chosen Option : 2

Q.26 Seven children, P., Q, R., S, T. U.J. and Wassessated around a square dining tebbe, all fairing towards the centre Some of them are stilling and the contre wildle some a set sitting the exact centre of the stides of the table of one cease is fettava can't and Toleram mediatiate neighbours. Q is seated at a corner, third to the right of T. Only three kids are seated between U and Q. P is mot an immediate neighbour of T. S is seated second to the left of T. If V is seated found that the right to PP, where is the vacant seat?

Ans

X 1. Fourth to the left of Q

X 2. Third to the right of T

X 3. To the immediate left of V

4. Second to the left of R

Question ID : 26433068368

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.27 In this questiom, three statements are given, followed by two coordusions roumbeedd land! II.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, destite-withthof the conclusion(t)) degistally obtained in the statements.

Statements:

All scooters are cars.

No car is a cycle.

All cars are vehicles.

Condusions:

I. All cars are scooters.

II. Some cycles are vehicles.

Ans

X 1. Both conclusions I and II follow.

2. Neither conclusion I nor II follows.

X 3. Only conclusion II follows.

X 4. Only conclusion I follows.

Question ID : 26433057916

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.28 Select the option that its related to the third/world inthessame way as the second worlds related to the first world. (The words must be considered as meaningful English words and must not be related to each other based on the number of detects in the world))

Odisha: Bhubaneshwar:: Nagaland:?

Ans

X 1. Jaipur

X 2. Gangtok

X 3. Dispur

4. Kohima

Question ID : 26433067353

Status : Answered

Q.29 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 145:170::290:?::442:485

X 1. 330 Ans

X 2. 320

X 3. 335

4. 325

Question ID : 26433092714

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.30 Select the correct combination of mathematical signs that can sequentially replace 'A' and ballancethegiwerequation. 26 A 12 A 12 A 6 A 2 A 5 A 6

Ans

✓ 1-, +, ÷, =, ×, +

× 2. +, , ÷, x, =, +

X 3-, +, ×, =, ÷, +

X 4₋, +, ÷, ×, =, +

Question ID : 26433067486

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q311 Three different positions of the same dice are shown (Figures 1-3). Find the number on the face opposite to the face having '2'.



Figure 2





Figure 1

X 1.1 **X** 2. 4

Ans



X 4. 5

Question ID : 26433076573

Status : Not Attempted and

Marked For Review

'?' in the following equation?'
99 D 9 B 6 D 3 A 5 B (2 C 1) A 3 = ? X 1.76 Ans × 2. 154 **X** 3. 304 **4**. 30 Question ID: 26433067658 Status : Not Attempted and Marked For Review Chosen Option : == Q.33 Im a coodbellanguagge, CANDLE' is writteen as 3311-11444-1225 and DDARK (is writteen a s4'4-11881-11'. How will 'LIGHT' bewritten in that language? X 1. 12-9-8-7-20 Ans X 2. 11-6-7-8-20 3. 12-9-7-8-20 **X** 4. 12-7-8-9-20 Question ID : 26433056745 Status: Answered Chosen Option: 3 Q.34 Which letter-cluster will replace the question mark((?)) to complete the given series? FUNT???JPBBX;SESEEVNEVHB ✓ 1. HMYV Ans X 2. JKYR X 3. GKWR X 4. JMXU Question ID: 26433068042 Status : Not Attempted and Marked For Review Chosen Option : == Q.35 A, B, C, D, E, FFandd3Gaæesseveencousins of differentiagess Alissy young get han and yilly. EG (Isis younger than C but older than D. B is the youngest amongst them. F is younger than D. How many people is Dyzougethan? X 1.2 Ans X 2.3 **X** 3. 1 **4**.4 Question ID : 26433068757 Status : Not Attempted and Marked For Review Chosen Option : ==

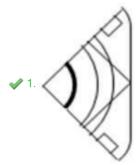
Q.32 If A denotes "+", B denotes "x", C denotes "-", and D denotes "+", then what will be conscirred accord

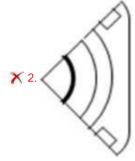
Q.36 Which of the following numbers will replace the question mark(?) inthe given series? **27**, ?? **44**004**\$**54**9**,95**2**52 Ans **1.34 X** 2. 36 **X** 3. 32 **X** 4. 35 Question ID : 26433068103 Status: Answered Chosen Option : 1 Q.37 Select the correct combination of mathematical signs that can sequentially replace @'and balancethegivenequation. 52 @ 12 @ 15 @ 3 @ 6 @ 5 @ 15 ✓ 1. -, +, ÷, =, x, + Ams × 2. -, +, ×, =, ÷, + X 3. -, +, ÷, ×, =, + X 4. +, -, ÷, ×, =, + Question ID : 26433067488 Status : Not Attempted and Marked For Review Chosen Option : == Q:38 Jia starts from Point A and drives 63kmttowardstittenoorth S6betteetalakes siglightuturn, drives 2.65 km, turns right and drives 10.25 km. She them takes a right turn and drives 88722 km. She takes a final right turn, drives 3.95 km and stops at Peint IP. Howfar and towards which direction should she now drive in order to read h Point (A again? (All turns are 900 degree turns only) Ans X 1. 6.05 km, west X 2. 6.07 km, north X 3. 6.05 km, north 4. 6.07 km, east Question ID : 26433068586 Status : Not Attempted and Marked For Review Chosen Option: == Q.39 Harri's brotther is Shiv. Shiv has two sons Ram and Shyam. Shyam's daughter is Priya. How is ShriwreeldateeldtoFPriyaa? X 1. Father's brother Ans X 2. Father 3. Father's father X 4. Brother Question ID : 26433070336 Status : Not Attempted and Marked For Review Chosen Option : ==

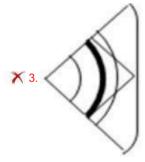
Q40 Select the figure from the options that can replace the question mark (?) and complete the pattern.

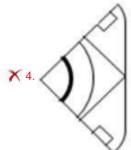


Ans









Question ID : 26433068399

Status : Answered

Q.41 Select the option that represents the correct order of the given worlds as they would appear in am English dictionary. 1.Pentium 2.Pentagon 3.Penalise 4.Permeate 5.Personified 6.Penetrate 7.Pesticide **X** 1. 3, 6, 1, 2, 5, 4, 7 Ans **2**. 3, 6, 2, 1, 4, 5, 7 **X** 3. 3, 6, 1, 2, 4, 5, 7 **X** 4. 3, 2, 6, 1, 4, 5, 7 Question ID : 26433067547 Status : Not Attempted and Marked For Review Chosen Option : = Q.42 Select the option that represents the letters that, when sequentially placed from lefft to right in the blanks below, will be omposed the dette secres. C_HE_CKCC_ECC__CH_C_K ✓ 1. CCHKCEC Ans X 2. CHECCEK X3. HECCCEK X4.CKECCHE Question ID : 26433067746 Status: Answered Chosen Option: 1 Q.43 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. SEVERE: EREXES:::CORMINAL: LANIMIRC::: LOCATION::? Ans X 1. NOIATCOL X 2. NIOTACOL 3. NOITACOL X 4. NIOATCOL Question ID : 26433055927 Status: Answered Chosen Option: 3 Q.44 Q lies to the east off P. R lies to the north of P. S lies to the north-east of Q. T lies to the southeast of P and south-west of Q.WMatsishbaposition of Twithreespectoes? X 1. North-west Ans 2. South-west X 3. South-east X 4. North-east Question ID : 26433068361 Status : Not Attempted and Marked For Review

Q.45 Select the option that will replace the question mark (?) in the given figure to complete the pattern.

Question ID : 26433058057 Status: Answered

Chosen Option : 4

Q.46 Select the correct option that indicates the arrangement of the following woods in adoge and meaning full order.

1. Knead

2.Bread 3.Bake

4.Flour

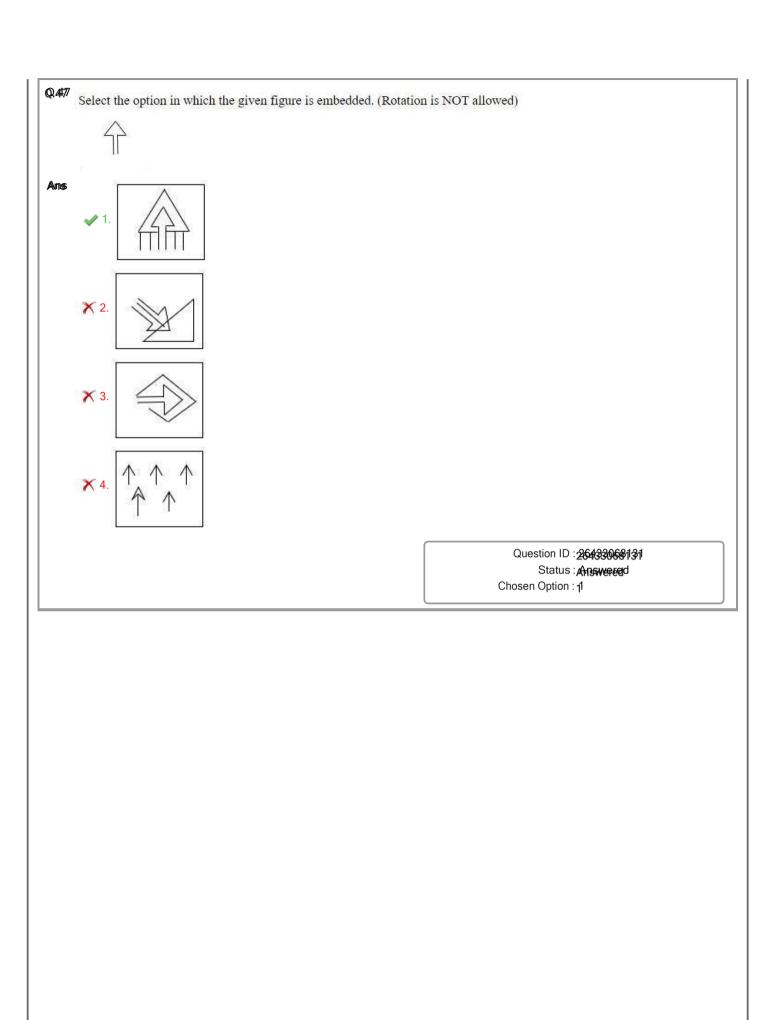
5.Grain

2. 5, 4, 1, 3, 2 **X** 3. 5, 1, 4, 2, 3

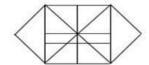
X 4. 5, 1, 4, 3, 2

Question ID : 26433067757

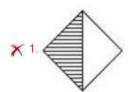
Status : Answered

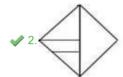


 ${\bf Q488}$ Select the option that is embedded in the given figure (rotation is NOT allowed).

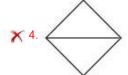


Ams









Question ID : 26433058101

Status : Answered

Chosen Option : 2

Q449 If A denotes '+', B denotes '×', C denotes '-', and D denotes '+', then what will be the value of the following expression?

121 A 78 C 25 D 4 B 8 = ?

Ans

X 1. 167

2. 149

X 3. 345

X 4. 178

Question ID : 26433085375

Status: Not Answered

Chosen Option : -

Q.50 Which letter-cluster will replace the question mark ((?)) to complete the given series? KIES, DEHMY, WAMB, VEIQUUI

Ans

✓ 1. SOKA

X 2. TPLB

X 3. MMJB

X 4. NPJC

Question ID : 26433068043 Status : Not Answered

Chosen Option: --

Section: General Awareness

- Q.1 If one would like to climb the Himalayas from the foothills to higher altitudes in India, then which would be the consect supperceoff for establish two uld be the consect supperceoff for established?
 - 1) Deciduous florests
 - 2) Tundra vegetation
 - 3) Pime forests
 - 4) Wet, temperate type of forests
 - 5) Temperate grasslands and pastures

Ans

- X 1. 1-2-3-4-5
- **X** 2. 1-3-2-4-5
- **X** 3. 4-1-3-5-2
- 4. 1-4-3-5-2

Question ID : 26433055317

Status : Not Attempted and

Marked For Review

Chosen Option : _-

Q.2 When was streeth are at Nimaan Programmed and object by the Government of inditia?

Ans

X 1. 2010

2. 2005

X 3. 2009

X 4. 2014

Question ID : 26433081900

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q3 Which German chemist and physicist predicts that the combination of the number of electrons (n) and the physical structure of the ning system determines whether amode cube is aromatic, antiaromatic, or moneromatic?

Ans

- X 1. Alexander Zaitsev
- X 2. Auguste Laurent
- 3. Erich Huckel
- X 4. Victor Grignard

Question ID : 264330100046

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.4 Whitath offthee following jisst bleedeepest mannaded to be con Earth with a deepest at thickel point on Earth?

Ans

- 1. Bingham Canyon Borehole
- X 2. Askam Borehole
- 3. Kola Superdeep Borehole
- X 4. Berkeley Pit Borehole

Question ID : 26433055826

Status : Not Attempted and Marked For Review

Q.5 The upper basin of which rives in the estate of Cohattag garlisis in the states of a success? 1. Mahanadi river X 2. Jonk river X 3. Son river X 4. Indravati river Question ID : 26433955167 Status : Not Attempted and Marked For Review Chosen Option : -Q.6 Whitehofthefoldwingsissesethinoughysynpps? 1. Ethanol Ans X 2. Propanol X 3. Butanol X 4. Texanol Question ID : 264330100696 Status : Not Attempted and Marked For Review Chosen Option : __ Q.7 Sharrom Lowern a farmous proponent of the Odissistyle of dance dedongs to which country? X 1. Argentina X 2. Germany 3. United States of America X 4. Uruguay Question ID : **2643308097**0 Status : Not Attempted and Marked For Review Chosen Option : == Q.8 Choose the option that contains sativity under the service sector. X 1. Sugar making Ans X 2. Agriculture X 3. Gold mining 4. Banking Question ID : 264330100722 Status : Not Attempted and Marked For Review Chosen Option : =

Q.9 I man effort to usher in reforms in the field of agricultural marketing and promote on time marketing of agricultural products across the country and maximise the benefits of farmers, the Government has approved a program called 1. Agricultural Marketing Infrastructure (AMI) X 2. Integrated Scheme for Agricultural Marketing (ISAM) 3. National Agriculture Market (eNAM) X 4. Gramin Bhandaran Yojana (GBY) Question ID : 26433081898 Not Attempted and Marked For Review Status: Chosen Option : == Q.10 Who among the following has written The Bird of Time? X 1. Bipin Chandra Pal X 2. Sucheta Kriplani 3. Sarojini Naidu X 4. Mahatma Gandhi Question ID : 26433081956 Status : Not Attempted and Marked For Review Chosen Option : == Q.11 The Ras Leetawas first started as a dance form in 1779 by _____, a 18th century Meitei monarch. X 1. Kulachandra Ans X 2. Chandrakirti X 3. Gambhir 4. Bhagyachandra Question ID : 26433071497 Status : Not Attempted and Marked For Review Chosen Option : == of the Indian Constitution guarantees expalopportunity to all citizens in matters related to employment in the public sector. **X** 1. 17 Ans X 2. 15 **X** 3. 18 **4**. 16 Question ID : 26433071656 Status : Not Attempted and Marked For Review Chosen Option : ==

Q.13	With the enactment of Government of India Act, 1919 the	provincialibudgatwass
Ans	✓ 1. separated from Central budget	
	X 2. joined with Central budget	
	X 3. prepared by the Viceroy's Council	
	X 4. not required any more	
		Question ID : 26433085259
		Status : Not Attempted and Marked For Review
		Chosen Option : ==
Q.14	According to the International Whiten for Conservation of N (IUCN) list, the Himalayan brown bear, wild Asiatic buffalo classified into which category?	Nationecand Invaluation Francourcess o, desert fox and hombillare
Ans	✓ 1. Rare species	
	X 2. Endangered species	
	X 3. Extinct species	
	X 4. Endemic species	
		Question ID : 26433055128
		Status : Not Attempted and Marked For Review
		Chosen Option : ==
Q.15	The Governor of a State cam reserve amy bill passedity the consideration of the	æstatelegiskkumerforthe
Ans	1. Chief Justice of the Supreme Court	
	2. Chief Justice of the High Court	
	✗ 3. Prime Minister	
	✓ 4. President	
		Question ID : 26433086858
		Status : Not Attempted and Marked For Review
		Chosen Option : ==
Q.116	If an object is moving with an actual speed of fx in uniform the object.	rrmotition find the laverenge speed of f
Ans	★ 1. x+2	
	✓ 2. x	
	★ 3. 2x	
	X 3. 2x X 4. x/2	
		Question ID : 264330100737
		Question ID : <u>264339109737</u> Status : Answered Chosen Option : 2

Q.17 Which country did India defeat to win its first even critikes t World Cup title? Ans 1. West Indies 2. Zimbabwe 3. England 4. Sri Lanka Question ID: 26433055185 Status: Not Answered Chosen Option: ==

Q.18 Raslilla is a farmous dance majorly performed in which indians sate?

Ans 1. Uttar Pradesh
2. Goa

X 3. Rajasthan

X 4. Madhya Pradesh

Question ID : 26433686571 Status : Answered Chosen Option : 3

Q.19 Witho among the following was appointed a shift 6 to intranaction distribution and the control of the cont

Ans

X 1. AS Kiran Kumar

2. Dr S Somanath

X 3. Dr K Sivan

X 4. G Madhavan

Question ID : 26433074180 Status : Not Answered

Chosen Option : ==

Q.20 How many Articles were there in the original Constitution of India?

Ans

1. 395

X 2. 234

X 3. 101 **X** 4. 199

Question ID : 26433086771 Status : Not Answered

Chosen Option : ==

Q.21 Which of the following: Articles of the Indian Constitution agendated to citizenship?

Ans

X 1. Articles 25 to 31

X 2. Articles 2 to 4

3. Articles 5 to 11

X 4. Articles 15 to 21

Question ID : 264330100040 Status : Not Answered

Q.22 Which of the following statements: is correct??

- Ans X 1. Pseudopodia in amoeba helps in the formation of cells.
 - X 2. The egg of a hen is a group of cells.

 - X 4. Cells cannot be spherical.

Question ID : 264330100739 Status : Not Answered

Chosen Option : ==

Q.23 For which region was the direction of tradte (in terms of Indiass imports in Res. Crone) for 2016-17 the maximum??

- Ans X 1. North America
 - 2. Asia and ASEAN
 - X 3. North Africa
 - X 4. Latin America

Question ID: 26433054790

Status : Net Answered

Chosen Option : ==

Q.24 In November 2021, the Union Ministry of Cooperation launched the "Dairy Sahakar" scheme at Anand, Gujaratatanoutlayर्जाङ्—____क्काड.

- **1.5,000**
- **X** 2. 20,000
- **X** 3. 15,000
- **X** 4. 10,000

Question ID : 26433082834

Status: Net Answered

Chosen Option : ==

Q.25 Who among the following proposed the Vennaulan Press Act of 1888?

- 1. Lord Lytton
- X 2. Lord Curzon
- X 3. Lord Dufferin

X 4. Lord Lansdowne

Question ID : 26433082069

Status : Not Answered

Q.26 Who received the Nobel Prize in Physics in 1936 for the discovery of a positively obtarged particle called the 'positron'?

Ans

X 1. Ernest Orlando Lawrence

2. Carl Anderson

X 3. James Chadwick

X 4. JJ Thomson

Question ID : 264330100044 Status : Not Answered

Chosen Option : ==

Q.27 Who is the first inditiant occlaim? Woodd No.1 Tranking in in the ULF99361d Strigglescett goprinin the Badminton World Feetless tion juntion and kings?

Ans

1. Tasnim Mir

X 2. Advika Ganesh

X 3. Ashmita Chaliha

X 4. Ashwini Ponnappa

Question ID : 26433072904

Status : Net Answered

Chosen Option : ==

Q.28 The market value of final goods and services appoduced by accountry during the principle from accounting year, inclusive of depreciation is known as the:

Ans

X 1. NDP at factor cost

X 2. NDP at market price

X 3. GDP at factor cost

4. GDP at market price

Question ID : 26433064860

Status: Net Answered

Chosen Option : ==

Q.299 ____won his 11th National Billiards tittle om 200 December 200211 im Bhoppall.

Ans

X 1. Geet Sethi

X 2. Dhruv Sitwala

3. Pankaj Advani

X 4. Ashok Shandilya

Question ID : 264330100009

Status : Not Answered

Q.30	Mathematically, the direct relationship of which law can be equation? Where V, Tamble are wolume, temperature and o	
•	V/T=k	•
Ans	✓ 1. Charles' law	
	2. Dalton's law	
	X 3. Boyle's law	
	X 4. Avogadro's Law	
		Question ID : 26433059084
		Status: Net Answered
		Chosen Option : ==
021	Nakla aggas halang ta yukishk affekta ffulkurita gaguna 22	
Ans	Noble gases belong to which of the following ggoups?? 1. 1st group	
	× 2. 5 th group	
	✓ 3. 18 th group	
	× 4. 7 th group	
	1.7 group	
		Question ID : 26433071436
		Status: Net Answered
Q.32	Who among the following was a noted Mnidangam player in Music' at Wesleyan University from 1970-1975 and againdian dhumming?	Status: Net Answered Chosen Option: == withous served as 'Artist im Residence
Q.32 Ans	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam	Status: Net Answered Chosen Option: == withous served as 'Artist im Residence
	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar	Status: Net Answered Chosen Option: == withous served as 'Artist im Residence
	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam	Status: Net Answered Chosen Option: who served as 'Artist in Residence im from 11988-2000 treaching South Question ID: 26433054468
	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam	Status: Net Answered Chosen Option: who served as 'Artist in Residence iin from 11988-2000 teaching South Question ID: 26433054468 Status: Net Answered
	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam	Status: Net Answered Chosen Option: who served as 'Artist in Residence im from 11988-2000 treaching South Question ID: 26433054468
Ans	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookweld, foodsblain and	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian dhumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookwebb, fcookbbairnance textbook "Animal Ecotogy" published in 1927?	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookweld, foodsblain and textbook "Animal Ecology" polubilished in 1927? 1. Eugene Odum	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcoodweld, fcoodcolain randot textbook "Animal Ecology" publicished in 1927? 1. Eugene Odum 2. Charles Elton	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookwebb, foodcoblain and textbook "Animal Ecology" public bled in 1927? 1. Eugene Odum 2. Charles Elton 3. Alexander Humboldt	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcoodweld, fcoodcolain randot textbook "Animal Ecology" publicished in 1927? 1. Eugene Odum 2. Charles Elton	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookwebb, foodcoblain and textbook "Animal Ecology" public bled in 1927? 1. Eugene Odum 2. Charles Elton 3. Alexander Humboldt	Status: Net Answered Chosen Option: =: without served as 'Artist in Residence im from 1988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: =:
Ans Q.33	in Music' at Wesleyan University from 1970-1975 and againdian drumming? 1. Ramnad V Raghavan 2. B Sasikumar 3. L Subramaniam 4. Abhijith PS Nair Who introduced the concepts offfcookwebb, foodcoblain and textbook "Animal Ecology" public bled in 1927? 1. Eugene Odum 2. Charles Elton 3. Alexander Humboldt	Status: Net Answered Chosen Option: == without served as 'Artist in Residence iim from 11988-2000 treaching South Question ID: 26433054468 Status: Net Answered Chosen Option: ==

Q.34 Which of the following is/are formed by subduction between a plate carrying continental crust and a plate carrying coeanic crust?

Ans

X 1. Subduction zone

X 2. Transform fault

3. Ocean trench

X 4. Normal faults

Question ID : 26433082217

Status: Net Answered

Chosen Option : ==

Q.35 Which of the following forests are found in the higher latitudes of Northern hemisphere and are allso called as Tagiga?

Δns

X 1. Temperate Deciduous Forests

X 2. Tropical Rain Forest

3. Coniferous Forests

X 4. Mediterranean Forests

Question ID : 26433055801

Status: Net Answered

Chosen Option : ==

Q.36 Which waves fall in the range off the EM spectrum between radio and IR used in modern technology such as wireless metworks, spacecraft communication, medical diathermy, and cancer treatment?

Ans

X 1. Visible light

X 2. Ultraviolet

3. Microwaves

X 4. Gamma-rays

Question ID : 264330100043

Status : Not Answered

Chosen Option : ==

Q37 Match the following table.

RIVER	TRIBUTARIES
A. Kaveri	1.Penganga
B. Krishna	2. Kabini
C. Godawari	3. Koyna

Ans

X 1. A - 1, B - 2, C - 3

X 2. A - 2, B - 1, C - 3

X 3. A - 3, B - 2, C - 1

√ 4. A - 2, B - 3, C - 1

Question ID : 26433054989

Status : Net Answered

Q.38 The headquarters of 19870 (Indian Space Research Organisation) is docated at:

Ans X 1. Jaipur

2. Bengaluru

X 3. Nagpur

X 4. Chennai

Question ID : 264330100693 Status : Not Answered

Chosen Option : ==

Q.39 Withicth triangulamplateauregionnof Indiadites out to other eivere Namadada?

1. Deccan plateau

X 2. Bagelkhand plateau

X 3. Malwa plateau

X 4. Marwar plateau

Question ID : 264330100055 Status: Not Answered

Chosen Option : _-

_ river forms boundary between the two States of Telangana and Maharashtra.

Ans X 1. Narmada

2. Pranahita

X 3. Kaveri

X 4. Brahmaputra

Question ID : 26433055831

Status: Net Answered

Chosen Option : ==

Q.41 Which of the following statements is true with espect to cenergy?

X 1. It can be created and destroyed.

X 2. It exists only in mechanical forms.

X 3. It cannot be converted from one form to another.

4. It is the stored ability to do work.

Question ID : 264330100689

Status : Not Answered

Chosen Option : =

Q.42 Which of the following statements: is correct regarding central chagma?

√ 1. m-RNA synthesis is called transcription.

X 2. m-RNA synthesis is called translation.

X 3. Protein synthesis is called transcription.

X 4. DNA replication is the last step of central dogma.

Question ID : 26433053991

Status: Not Answered

Q.43 Who among the following was the found depother know all pastry? Ans X 1. Bimbisara X 2. Kalashoka X 3. Ajatashatru 4. Vasudeva Question ID : 26433055005 Status : Not Answered Chosen Option : == Q.44 In the 2021 Winter Session of the Parliament, how many bills were passed in both the Houses of parliament in total from the 13 bills that we retabled? Ans X 1. 13 X 2.9 **3**. 11 X 4. 12 Question ID : 26433086877 Status: Not Answered Chosen Option : == Q.45 Pullela Gopichand won the All England Open Tournament in the year_ **1**. 2001 Ans **X** 2. 2000 **X** 3. 2003 X 4. 2002 Question ID : 26433092330 Status : Not Answered Chosen Option : = Q.46 Select the correct option citing reasons for make migration and their percentages, based on the Censusoff India 22011 Ans 1. Education - 2%, marriage - 4%, work employment - 34% 2. Education - 12%, marriage - 4%, work employment - 24% 3. Education - 2%, marriage - 14%, work employment - 24% 4. Education - 2%, marriage - 4%, work employment - 24%

Question ID : 26433067164 Status : Not Answered

Chosen Option: --

Q.47 In which year was the National Rural Employment Guarantee Acternated in India ? Ans X 1. 2001 **X** 2. 2002 **3**. 2005 **X** 4. 2003 Question ID : 26433089265 Status : Not Answered Chosen Option : = Q.48 As ammounced in Way 2021, PM CARES for children scheme would support obtide environment lost both Parents or legal Guardian or Adoptive Parents or Surviving Parent to COVID-19 pandemic during the period starting from _______. 1. 11 March 2020 X 2. 11 March 2019 X 3. 11 March 2021 X 4. 11 March 2022 Question ID: 26433082833 Status: Net Answered Chosen Option : == Q.49 Which of the following is a qualitative method of credit control? X 1. Variation in cash reserve ratio of banks X 2. Variation in bank rate X 3. Open market operations 4. Margin requirement Question ID : 26433065426 Status: Not Answered Chosen Option : == Q.50 The town of Mawaymam in Maghalaya is famous as: ✓ 1. the wettest place in India X 2. the driest place of the world X 3. the most windy place in India X 4. the coolest place in the world Question ID: 26433064175 Status: Not Answered Chosen Option : ==

Section : Part C General Engineering Mechanical

Q.1 Tithe matthematical expression for centre of pressure when the surface is inclined and immersed in the liquid is given by:

Ans

$$\times$$
 1. $\bar{h} = \frac{I_G \sin^2 \theta}{A \bar{x}} + 2 \bar{x}$

$$\times$$
 2. $\bar{h} = \frac{I_G \sin^2 \theta}{2A\bar{x}} + \bar{x}$

$$\ \, \checkmark ^{3.} \ \, \overline{h} = \frac{I_{G}sin^{2}\theta}{A\overline{x}} + \overline{x}$$

4.
$$\overline{h} = \frac{I_G \sin \theta}{A \overline{x}} + \overline{x}$$

Question ID : 26433095679

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q2 If water is flowing through a circular pipe of diameter d (in m) and has a velocity of V (in m/s), the quantity of water (in litres per sec) is given by $\underline{\hspace{1cm}}$.

Ans

$$\times$$
 1. $\frac{\pi}{4} \times d^2 \times V$ litres/second

_{2.}
$$\frac{\pi}{4} \times d^2 \times V \times 1000$$
 litres/second

$$\times$$
 3. $\frac{\pi}{4} \times d^2 \times V \times 100$ litres/second

$$\times$$
 4. $\frac{\pi}{4} \times d^2 \times V \times 10$ litres/second

Question ID : 26433099963

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q3 The flunction of a steam trap is _____

jackets

X 1. to automatically drain away the superheated steam from the steam pipes, steam lackets

X 2. to automatically collect condensed steam from the steam pipes, steam jackets without permitting it to escape

X 3. to automatically drain away the saturated steam from the steam pipes, steam jackets

4. to automatically drain away the condensed steam from the steam pipes, steam jackets without permitting it to escape

Question ID : 26433095883

Status : Not Attempted and

Marked For Review

	X 3. compressible	
	√ 4. incompressible	
		Question ID : 26433895651
		Status : Answered Chosen Option : 2
5	Knocking takes place in compression ignition e	ngine
ng s	√ 1. at the start of the combustion	
	× 2. at the end of the combustion	
	→ 3. during combustion	
	× 4. at the start as well as the end of the combu	stion
	at the start as well as the end of the comou	
		Question ID : <u>264339199949</u>
		Status : Answered Chosen Option : 3
Q.6 Ans	In an air standard Diesel cycle the efficiency depends on: 1. cut off ratio, compression ratio and ratio of specific heats	Status: Answered
	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only 	Status: Answered
	✓ 1. cut off ratio, compression ratio and ratio of specific heatsX 2. cut off ratio only	Status: Answered
	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only 	Status: Answered
	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only 	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only 	Status : Answered Chosen Option : 3
ns	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only 	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
ns Q.77	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only 	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
ns Q.77	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats ✓ 2. cut off ratio only ✓ 3. ratio of specific heats only ✓ 4. pressure ratio only Aflywheel is used to control	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
ns Q.77	✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only Aflywheel is used to control 1. variation in power during each cycle of an engine	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
ns Q.7/	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats ✗ 2. cut off ratio only ✗ 3. ratio of specific heats only ✗ 4. pressure ratio only ✗ 4. pressure ratio only ✗ 1. variation in power during each cycle of an engine ✗ 2. variation of power of a punching press 	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered
uns	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only Aflywheel is used to control	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered Chosen Option: 1
ns Q.77	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only Aflywheel is used to control	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered Chosen Option: 1
ns Q.7/	 ✓ 1. cut off ratio, compression ratio and ratio of specific heats X 2. cut off ratio only X 3. ratio of specific heats only X 4. pressure ratio only Aflywheel is used to control	Status: Answered Chosen Option: 3 Question ID: 264330100535 Status: Answered Chosen Option: 1

Q.8 Equivalent evaporation is defined as the amount of water evaporated from. 1.0°C to wet and saturated steam at 100°C X 2.0°C to dry and saturated steam at 100°C X 3. 100°C to wet and saturated steam at 100°C ✓ 4. 100°C to dry and saturated steam at 100°C Question ID : 26433095898 Status : Not Attempted and Marked For Review Chosen Option : == Q.9 The first law of thermodynamics is based on_ X 1. Joule's law Ans X 2. the principle of conservation of mass 3. the principle of conservation of energy X 4. zeroth law of thermodynamics Question ID : 26433095614 Status : Answered Chosen Option: 3 Q.10 According to _____ the rate of increase in pressure along the depth is equal to X 1. weight density, hydrostatic law ✓ 2. Hydrostatic law, weight density X 3. hydrostatic law, mass density X 4. Pascal's law, weight density Question ID: 26433095676 Status : Not Attempted and Marked For Review Chosen Option : == Q1111 Identify the option that completes the given statement with respect to stress. Factor of safety is the: 1. product of ultimate stress to the working stress 2. ratio of ultimate stress to the working stress X 3. square root of ratio of ultimate stress to the working stress X 4. ratio of working stress to ultimate stress Question ID : 26433096674 Status : Not Attempted and Marked For Review Chosen Option : ==

Q.12 Which of the following expressions give the Thoma's cavitation factor((d), whitch is basically used to determine whather cavitation will loccur in any portion of the turbine? Where, H_B = atmospheric pressure head, H_V = vapour pressure head, H_S = suction pressure head, IH=workinghlead bot turbhiee.

Ans

- 1. $(H_a + H_v H_s) / H$
- ×2. (H_a H_s) / H
- \times 3. $(H_v H_s) / H$
 - 4. $(H_a H_v H_s) / H$

Question ID: 26433096701

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.13 Durling phase change process of water

- X 1. only pressure remains constant
 - 2. both pressure and temperature remain constant
- X 3. only temperature remains constant
- X 4. neither pressure nor temperature remains constant

Question ID: 26433095593

Status : Not Attempted and Marked For Review

Chosen Option: ==

Q.14 The Hydraulic Gradient Line will be having zero in case of _

- X 1. non-uniform velocity
- X 2. uniform velocity
- X 3. non-uniform pressure
- 4. uniform pressure

Question ID: 26433099842

Status : Not Attempted and

Marked For Review

Chosen Option : ==

Q.15 For a system operating in a cycle, the net work transfer is equal to ___

Ans

- 1. change in internal energy
- X 2. change in enthalpy
- 3. net heat transfer
- X 4. zero

Question ID: 26433095616

Status : Not Attempted and Marked For Review

	× 2. nuclear energy	
	★ 3. potential energy	
	✓ 4. energy of water	
		Question ID : <u>26433896767</u> Status : Answered Chosen Option : <u>4</u>
_		Chosen Option . #
	Pressure at any point in a liquid depends upom	
ns	X 1. depth of the free surface	
	2. height of the free surface above the measured point	
	X 3. area of the free surface	
	X 4. force exerted on the free surface	
		Question ID : 26433095675
		Status : Answered
		Chosen Option : ₄
	Withicth offtheefollowing is NOTally peof fradible ocorea and ageneen?? ✓ 1. Syphon ✓ 2. Honey comb	олосол ориол 4
	✓ 1. Syphon	Question ID : <u>26433096530</u>
	1. Syphon 2. Honey comb 3. Cellular	
ns	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For sprting loaded safety valve the pressure required to lifftities valve is	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
.1199	1. Syphon 2. Honey comb 3. Cellular 4. Tubular	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
.ns	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spriing loaded safety valve the pressure required to lifftitieeval/weist required to open it fully.	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spring loaded safety valve the pressure required to lifftthe valve is required to open it fully. 1. equal to	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spriing loaded safety valve the pressure required to lifftitieeval/weist required to open it fully. 1. equal to 2. more than	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
∳ns	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spriing loaded safety valve the pressure required to lifftitieval/weist required to open it fully. 1. equal to 2. more than 3. may be more or less than	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :
	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spriing loaded safety valve the pressure required to lifftitieval/weist required to open it fully. 1. equal to 2. more than 3. may be more or less than	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option : =- stthepressure
.ns	1. Syphon 2. Honey comb 3. Cellular 4. Tubular For spriing loaded safety valve the pressure required to lifftitieval/weist required to open it fully. 1. equal to 2. more than 3. may be more or less than	Question ID : 26433096530 Status : Not Attempted and Marked For Review Chosen Option :

Q.20 Attempering is a process where _____ of steam temperature happens.

- Ans X 1. increment
 - ✓ 2. reduction
 - × 3. reduction or increment
 - × 4. No change

Question ID : 264330100912

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.21 If cut-off ratio im air standard dual cycle approaches to unity, then this lead to which among the following cycles??

Ans

- X 1. Diesel cycle
 - X 2. Brayton cycle
 - X 3. Rankine cycle
 - 4. Otto cycle

Question ID: 264330100538

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.22 The equations of equilibrium for mon-concurrent force system are:

Ans

- 1. $\sum F_v = 0$
- $2. \sum F_x = 0, \sum F_v = 0$
- $S_x = 0$
- 4. $\Sigma F_x = 0$, $\Sigma F_v = 0$ and $\Sigma M = 0$

Question ID: 26433096664

Status: Answered

Chosen Option: 4

Q.23 In P-H diagram of vapour compression refrigeration cycle, the compression process is shown

Ans

✓ 1. straight line with positive slope

X 2. straight line with negative slope

X 3. horizontal line

X 4. curved line with positive slope

Question ID : 26433096763

Status : Not Attempted and

Marked For Review

Q.24 Which of the following is NOT an assumption taken in the Barnoullitheorem??

Ans X 1. The fluid is inviscid.

2. The flow is rotational.

X 3. The flow is incompressible.

X 4. The flow is steady.

Question ID : 26433896313

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.25 In Electrode Discharge Machining (EDM) process, the gap between the tool and workpiese should be:

Ans

X 1. 0.1 mm to 0.3 mm

2. 0.025 mm to 0.05 mm

X 3. 0.25 mm to 0.5 mm

X 4. 0.015 mm to 0.025 mm

Question ID : 264330100613

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.26 The discharge velocity in the orifice meter is measured by using which of the following?

Ans

X 1. Rotameter

2. Pitot tube

X 3. Venturi meter

X 4. Elbow meter

Question ID : 26433095656

Status : Not Attempted and Marked For Review

Chosen Option : _-

Q.27 Water is flowing through a circular pipe under pressure. If the total energy per untitweligh to of the water at a cross-section is 30 m and the piezometric head at that section is 29.4 m, then what will be the kineticheadat that section?

Ans

X 1. 0.3 cm

X 2. 0.3 m

✓ 3. 0.6 m

X 4. 0.6 cm

Question ID: 26433096314

Not Attempted and Status: Marked For Review

Q.28 In a reciprocating compressor, the swept volume is 8/9 times the maximum volume. The clearance ratio will be equal to Ans X 1. 0.11 **X** 2. 0.1 **3**. 0.125 **X** 4. 0.89 Question ID : 26433096766 Status : Not Attempted and Marked For Review Chosen Option : == Q.29 The range of flow ratio value for a Francis turbine is: Ans X 2. 0.75 to 1.25 X 4. 0.10 to 0.40 Question ID: 264330100926 Status : Not Attempted and Marked For Review Chosen Option : == Q30 A boiler produces steam at a rate of 10/9 kg per second at 20 bar and 400°C. The efficiency of the boiler is 80%, and the feed-water temperature is 50°C. The calorific value of the fuel used is 44500 kJ/kg. Enthalpy of steam at 20 bar and 400°C is 3245.5 kJ/kg, and enthalpy of feed-water at 50°C is 209.3 kJ/kg. The fuel burning rate in kg/h is: Ans × 2. 34.115 X 3. 150 × 4. 3411.5 Question ID : 264330100923 Status : Not Attempted and Marked For Review Chosen Option : == Q311 A body floats in a static fluid. It is found that the metacentre coincides with the centre of gravity of the body. The body will be in _____ equilibrium. Ans × 1. unstable 2 neither stable nor unstable × 3. neutral Question ID : 264330100919 Not Attempted and Status: Marked For Review Chosen Option : ==

Q.32 An IC engine gives an output of 4 KW when the input is 10000 J/S, and the thermal efficiency is_ Ans X 1.

× 2. 60%

3. **40%**

X 4. 30%

Question ID : 264336166933

Not Attempted and Marked For Review Status:

Chosen Option : ==

Q.33 For a velocity compounded impulse turbine, which of the following statements is correct?

1. Pressure drops only in moving blades

X 2. Pressure drops both in nozzle and moving blades

X 3. Pressure drops neither in moving blades nor in nozzle

Question ID : 26433696264

Status : Not Attempted and

Marked For Review

Chosen Option : _-

Q.34 The frictional torque transmitted in a conical pivot bearing with assumption of furiform wae ar _ as compared to uniform pressure theory.

X 1. more Ans

2. less

X 3. equal when bearing is new

X 4. always equal

Question ID : 26433091087 Status: Answered

Chosen Option : 1

Q.35 Which of the following is NOT an advantage of water tube boiler in comparison with firettube

✓ 1. Less immune to failure in feed water supply Ans

X 2. High evaporation rate

X 3. Easy transport and quick erection at site

X 4. All parts easily accessible for cleaning, inspection and repairing

Question ID : 26433095874

Status : Not Attempted and Marked For Review

1. locomotive boiler X 2. Cornish boiler X 3. Cochran boiler X 4. Lancashire boiler Question ID : 26433095887 Status : Not Attempted and Marked For Review Chosen Option : == ${\tt Q.37} \ \textit{Am engine cyllinder than observance volume} of {\tt 2200cc} and {\tt compression} \textit{nation of } {\tt 44.4The} \textit{in the } {\tt 1000cc} \textit{and } {\tt 1000cc} \textit{and$ mechanical and volumetric efficiencies are 88% and 80%, respectively. The actual volume of change in occinducted peerstookeiss: X 1. 264 Ans **2**. 208 **X** 3. 164 X 4. 124 Question ID : 26433096259 Status : Not Attempted and Marked For Review Chosen Option : == Q.38 For a laminar flow through a circular pipe of diameter 400 mm, the maximum velocity is 2 m/s. What will be the velocity at 180 cm from the wall both epipe? X 1. 1.1 m/s Ans X 2. 2.2 m/s X 4. 1.2 m/s Question ID: 26433096310 Status : Not Attempted and Marked For Review Chosen Option : == Q39 If the thermal efficiency of a Carrottergine is 005; the arther of free formance of the Carrocitreffigue abborwill blee: X 1.2 Ans **X** 2. 0.5 **X** 3. 0 **4**. 1 Question ID : 26433095620 Status : Not Attempted and Marked For Review Chosen Option : ==

Q.36 High pressure low water safety valve CANNOT be used on_

Q.40 Water is flowing through a circular pipe of diameter 20 cm at the rate of 2 meter cube per						
Ans	second. Wład will liber Naeveldotty y bwaterinh tepipię? 1. 0.00324 cm/s					
	X 2. 32.4 m/s					
	X 3. 0.00637 cm/s					
	✓ 4. 63.7 m/s					
		Question ID : 26433096320				
		Status : Not Attempted and Marked For Review				
		Chosen Option : ==				
0.41	Double helical gears are also known as:					
Ans	× 1. mitres					
	× 2. helical bevel gears					
	✓ 3. herringbone gears					
	× 4. spur gears					
		Question ID : 26433091080				
		Status : क्षेत्रइ भक्षक् र ् Chosen Option : क्ष				
_		1 7				
Q.42	In a heat pump, the processes of the cycle are carried ou sequence of processes on the p-W diagram	ut in such a manner that the				
Ans	X 1. is the same as in a heat engine					
	2. is in anticlockwise direction					
	X 3. depends on the processes					
	X 4. is in clockwise direction					
		Question ID : 26433095627				
		Status : Not Attempted and Marked For Review Chosen Option : =-				
		Chosen Option . ==				
	Imammistil ubbricating system, mist of lubricating oil forms	s when:				
Ans	✓ 1. only fuel vaporises					
	2. neither oil nor fuel vaporises					
	X 3. both oil and fuel vaporise					
	✗ 3. both oil and fuel vaporise✗ 4. only oil vaporises					
		Question ID : 26433096255				
		Question ID : <u>26433096255</u> Status : Not Attempted and				
		Question ID : <u>26433096255</u> Status : Not Attempted and Marked For Review Chosen Option : =-				

Q.44 Which velocity is kept as a common reference in both intlet and outlet waterity triangle for drawling the webodity diagram of a steam utribie?

Ans

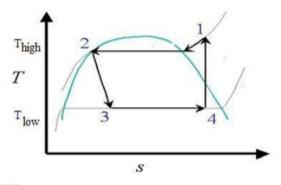
- X 1. Radial velocity
- X 2. Whirl velocity
- X 3. Relative velocity
- 4. Blade velocity

Question ID : 26433096267

Status : Not Attempted and Marked For Review

Chosen Option : ==

 $\mathbf{Q445}$ In a simple vapour compression refrigeration cycle, the enthalpy at point 1, 2 and 4 are 260 kJ/kg, 60 kJ/kg and 180 kJ/kg, respectively, as shown in the figure. If 2 kg of refrigerant is used to cool the system, then COP of the refrigerator will be:



- **X** 1. 2.25
- × 2. 3.5
- **X** 3.3
- **4**. 1.5

Question ID: 26433096898

Not Attempted and Marked For Review Status:

Chosen Option: -

In which boiler is forced circulation of water required?

- 1. Lancashire
- ✓ 2. Benson
- X 3. Locomotive
- ★ 4. Babcock and Wilcox

Question ID: 264330100948

Not Attempted and

Marked For Review

Q47	2.47 Point X is 10 m below the free surface of a liquid and point Y is 12 m below the free surface of the same liquid. The correct relationship for the pressure at points X and Y is			
Ans	✓ 1. Pressure at point X < Pressure at point Y	(und) is		
	X 2. Pressure at point X = Pressure at point Y = 0			
	X 3. Pressure at point X > Pressure at point Y			
	X 4. Pressure at point X = Pressure at point Y			
			26433099843	
		Status	. Not Attempted and Marked For Review	
		Chosen Option		
O 40	The OWC white the many deposits in			
Ans	The CGS untit of mass density is 1. gram per cubic centimetre			
/ 119	2. kilogram per cubic metre			
	X 3. gram per cubic metre			
	★ 4. kilogram per cubic centimetre			
	The state of the s			
		1	: 264 33095691	
		Status Chosen Option	: Answered	
		Chosen Option	· Z	
Q.49	The product of specific wollume and density is:			
Ans	✓ 1. 1.0			
	× 2. 2.5			
	× 3. 0.5			
	X 4. 1.5			
			: 26433095695 . Not Attempted and	
		Status	Marked For Review	
		Chosen Option	:=	
Q.50	Which type of condenser is used for small installations of refrigeration	n syystemas (lupp too 300		
Ans	(kW))?? 1. Shell and coil type			
Allo	✓ 2. Double tube type			
	➤ 3. Shell and tube type			
	× 4. Forced convection type			
	4. I orded convection type			
		Question ID	: 26433099493	
			. Not Attempted and Marked For Review	
		Chosen Option		
		· .		

Q.51 Afully insulated and completely empty and is is being little dwift is some fould with negytigited and wellowing ity. Willich hoof the following is so one ext?

Ans

✓ 1. Specific enthalpy of entering fluid is equal to final specific internal energy of fluid in the charged tank.

X 2. Specific enthalpy of entering fluid is equal to final specific potential energy of fluid in the charged tank.

3. Nothing can be said about specific enthalpy.

X 4. Specific enthalpy of entering fluid is equal to final specific kinetic energy of fluid in the charged tank.

Question ID: 26433695618

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.52 The heat acquired or released during aphase change is called.

Ans

1. latent heat

X 2. specific heat

X 3. enthalpy

4. sensible heat

Question ID : 26433096743

Status : Not Attempted and

Marked For Review

Chosen Option : ==

Q.53 Which of the following characteristics decides that the Lancastine dollar is an firetube doi! ## 27.00 with the following characteristics decides that the following characteristics are firetube and the firetube

Ans

X 1. All around brick-work setting for the circulation of hot gases

✓ 2. Use of two flue tubes through which flow of hot gases and water is kept around the tubes

X 3. Coal firing

X 4. Horizontal erection

Question ID : 26433095876

Status : Not Attempted and Marked For Review

Chosen Option : _-

Q.54 External work of evaporation is defined as

Ans

X 1. heat expended in overcoming the internal molecular resistance to change in state from saturated water to dry steam

2. heat expended in overcoming the external resistance to change in volume

X 3. heat required for complete conversion of saturated liquid to dry saturated vapour

4. heat required for complete conversion of ice to water

Question ID : 26433095591

Not Attempted and Status:

Marked For Review

Q.55 If a turbine develops a power of 2.515 MW at 240 rpm, then the torque developed in the turbine shaft is:

AAmss

× 1.10 kNm

× 2. 200 kNm

√ 3. 100 kNm

× 4. 20 kNm

Question ID : 264330100928

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.56 Supersaturated expansion of steamthroughthenozzieresultsin:

X 1. decrease in entropy and decrease in dryness fraction

2. increase in entropy and increase in dryness fraction

X 3. increase in entropy and decrease in dryness fraction

X 4. decrease in entropy and increase in dryness fraction

Question ID : **26433096263**

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.57 Cross-flow turbiness are devices for converting the kinetic energy of the wind do materia currents to_

Ans

X 1. hydraulic energy

X 2. pressure energy

3. rotational mechanical energy

X 4. chemical energy

Question ID: 26433096710

Status: Answered

Chosen Option : 3

Q.58 The dimensional formula of Volumetric Discharge is given by:

AAns \times 1. L² T⁻²

√ 2. L³ T⁻¹

X 3. L¹ T⁻²

 \times 4. L³ T⁻²

Question ID : 26433695652

Status : Not Attempted and Marked For Review

Chosen Option : __

Q.59	Which of the following high pressure boilers has a unique characteristic of absence of steam separattingdrum?		
Ans	1. Velox boiler		
	★ 2. Loemer boiler		
	X 3. Lamont boiler ✓ 3. Lamont boiler		
	✓ 4. Benson boiler		
		Question ID : 26433095904	
		Status : Not Attempted and Marked For Review	
		Chosen Option : ==	
Q.60	Convergent part, divergent part and throat are the used to construct whic devices?	h of the following	
Ans	X 1. Orifice meter		
	× 2. Rotameter		
	✓ 3. Venturi meter		
	X 4. Pitot tube ✓ 4. Pitot tube		
		Question ID : 26433095660 Status : ฝกรพคเอ ต	
		Chosen Option : 3	
Q.61	Which of the following is NOT a property of the thermody	ynamic system?	
Ans	★ 1. Temperature		
	✓ 2. Heat		
	X 3. Internal energy X 3. Internal energy		
	× 4. Pressure		
		0 11 15 004000400054	
		Question ID : <u>264330100951</u> Status : Aกรพลเอ d	
		Chosen Option : 3	
Q.62	When a fluid comes into contact with a surface, the force exerted by the f is referred to ass	iuid on the swrface	
Ans	✓ 1. total pressure		
4			
	× 2. normal pressure		
	2. normal pressure3. weight of the liquid		
	X 3. weight of the liquid		
	X 3. weight of the liquid	Question ID : 26433095677	
	X 3. weight of the liquid	Status : Not Attempted and Marked For Review	
	X 3. weight of the liquid		
	X 3. weight of the liquid	Status : Not Attempted and Marked For Review	

 $^{Q.63}$ The purpose of using fins in intercooler is to reduce: Ans X 1. pressure × 3. volume X 4. entropy Question ID: 264330100944 Status: Answered Chosen Option : 2 Q64 Imanefrigeration system, the working utis 20 kJ/kg while 80 kJ/kg of heat is rejected out of the system. The COPP of Nessystem will bee: X 1.4 Ans **2**.3 **X** 3. 0.25 **X** 4. 5 Question ID : 26433096738 Status : Not Attempted and Marked For Review Chosen Option : == Q.65 Choose the correct answer from the following: four options? \$1: Open cycle Casturbine is a notary internal combustion engine. \$2: Steam engine is a regiprocation external combustion engine. X 1. S1 is incorrect but S2 is correct X 2. S1 is correct but S2 is incorrect X 3. Neither S1 nor S2 is correct 4. Both S1 and S2 are correct Question ID : 264330100576 Status : Not Attempted and Marked For Review Chosen Option : == Q.66 The property of the material by which the material recovers its original strape after the removal of load is known as: X 1. plasticity Ans X 2. ductility

3. elasticity4. hardness

Question ID : 26433096675 Status : Answered

Chosen Option : \S

Q.67 The change in vertical height (im mm)) of a West topover non-wheen it to blanges sits speed from 560 rpm to 51 rpm is approximately equalities:

Ans

X 1.8

X 2.5

X 3. 16

4. 14

Question ID : 26433091074

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q688 The amount of heat required to convert water at a given temperature and pressure into steam at the same temperature and pressure is known as:

Ans X 1 superheated steam

√ 2. latent heat of water

× 3. sensible heat of water

4. enthalpy of wet steam

Question ID: 264330100935

Status: Answered

Chosen Option : 2

Q.69 The machining time for drilling process is calculated by: (Where L = Length of axial travel in mm; N = ripm of the drill; f = feed per rev in mm)

Ans

$$1. T = \frac{L^2}{(N \times f)}$$

$$\checkmark$$
 2. $T = \frac{L}{(N \times f)}$

$$3. T = \frac{f}{(N \times L)}$$

$*$
 4. $T = \frac{(N \times f)}{L}$

Question ID : 26433096038

Status: Not Attempted and

Marked For Review

Q.70 Which of the following statements is true about entropy is?

Ans 1. All adiabatic processes are isentropic processes.

X 2. Entropy of an isolated system may increase or decrease according to the value of internal irreversibility.

3. Entropy of the universe always increases for all practical processes.

4. Entropy of a system is intrinsic property.

Question ID: 26433096740

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.71 Filuids undergo volumetric change under the action of external forces due to

Ans

X 1. bulk modulus

2. compressibility

X 3. incompressibility

X 4. capillarity

Question ID: 26433096132

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.72 Choose the correct answer from the following four options.

\$1: High load on engine requires high viscosity lubricating oil. \$2: High speedenging equires downsisosisity it il.

✓ 1. S1 and S2 both are correct

X 2. S1 is correct but S2 is incorrect

X 3. S1 and S2 both are incorrect

X 4. S1 is incorrect but S2 is correct

Question ID: 264330100558

Status : Answered

Chosen Option : 1

Q.7/3 Two pressure lines in the superheated region conthecTFS diagram of a Rankine cycle are:

Ans

1. Diverged to each other

X 2. Perpendicular to each other

X 3. Converged to each other

4. Parallel to each other

Question ID : 264330100541

Status : Not Attempted and

Marked For Review

Q.74 Compared to Air cooling system of an engine the compressed Water cooled engine has

- Ans X 1. Higher fuel consumption
 - X 2. No effect on fuel consumption
 - 3. Lower fuel consumption
 - X 4. Same fuel consumption

Question ID : 264330100553

Status : Not Attempted and Marked For Review

Chosen Option : --

Q7755 Which of the following statements is true about sensible heat?

- 1. It is the amount of energy given to a system to increase its enthalpy.
- X 2. It is the molecular energy of a system stored in it because of random motion of the molecules of the system.
- refrigerant.
 - X 4. It is the amount of energy required to convert liquid refrigerant into vapour refrigerant.

Question ID: 26433096745

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.76 If the overall efficiency and mechanical efficiency of feaceattifugal pumppages 56% and 70%, respectively the nwhat will be estaman or retrief a ricinory?

Ans

- X 1. 39.2%
- **X** 2. 60%
- **3**. 80%
- **X** 4. 70%

Question ID: 26433096727

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.77 Variation in a specific volume of water if it is heated at 273 K:

- Ans X 1 increases continuously
 - × 2. first increases then decreases
 - 3. first decreases then increases
 - ¥ 4. depresses continuously

Question ID : 264330100918

Status : Not Attempted and Marked For Review

Q.78 Specific heat at constant volume is 1. the ratio of the change in specific enthalpy to the corresponding change in temperature ✓ 2. the ratio of the change in specific internal energy to the corresponding change in temperature X 3. the ratio of the change in pressure to the corresponding change in volume X 4. the ratio of the change in volume to the corresponding change in pressure Question ID : 26433095611 Not Attempted and Marked For Review Chosen Option : == Q.79 When the compressor and motor operate on the same shaft and are enclosed in a common casing, then it is known as ✓ 1. hermetically sealed compressor Ans X 2. screw compressor X 3. reciprocally sealed compressor X 4. centrifugal compressor Question ID : 26433696765 Status : Not Attempted and Marked For Review Chosen Option : == Q.80 Which among the following zone or part of pistom is subjected to highest temperature due to combustion? ✓ 1. The center of the crown Ans X 2. Gudgeon pin X 3. Bottom of the skirt X 4. Piston outer surface Question ID: 264330100556 Status : Not Answered Chosen Option : == Q.81 The average operating pressure of a Benson boiler is_ 1. 250 bar Ans X 2. 200 bar X 3. 150 bar X 4. 100 bar Question ID : 26433095906

Status : Not Attempted and Marked For Review

Q.82 A reaction turbine works at 420 rpm and its inlet diameter is 2 m. Determine its tangential velocity. Afris 1. 40 m/s × 2. 28 m/s √ 3. 44 m/s X 4. 36 m/s Question ID : 264330100952 Status: Not Attempted and Marked For Review Chosen Option : == Q.83 Which of the following statements is NOT correct?? ✓ 1. The force of friction is not depending upon the roughness of the surfaces. Ans X 2. The magnitude of the force of friction is exactly equal to the force, which tends to move the body. X 3. The force of friction is independent of the area of contact between the two surfaces. X 4. The force of friction always acts in a direction, opposite to that in which the body tends to move, if the force of friction would have been absent. Question ID : 26433096670 Status: Answered Chosen Option : 1 Q84 Coefficient of performance is also called _ X 1. refrigeration ratio X 2. performance ratio 3. energy ratio X 4. heat ratio Question ID : 26433096749 Status: Answered Chosen Option : 2 Q.85 A cylinder contains 0.2 m³ of a gas at a pressure of 1 barrand temperature 277°C. If this gas its compressed to 0.02 m³ at a pressure of 20 bar, the temperature at the end of compression will be: X 1. 540°C Ans X 2. 270°C ✓ 3. 327°C X 4. 600°C Question ID : 26433095615 Status : Not Attempted and Marked For Review Chosen Option : ==

Q.86	Q.86 In a reciprocating compressor, the value of clearance volume has a direct impact on:				
Ans	ns 1. piston speed				
	✓ 2. volumetric efficiency				
	X 3. thermal efficiency X 3. thermal efficiency				
	× 4. noise level				
		0 15 15	004000400040		
			: 26433 0100946 . Not Attempted and		
		Chosen Option	Not Attempted and Marked For Review		
		опосон орион			
Q.87	87 The hydraulic efficiency of a hydraulic turbine is related to the overall efficiency of a turbine as				
Ans	× 1. η _m / η ₀				
	2. Π_0				
	3. η_0 / η_m				
	4. $\Pi_0 \times \Pi_m$				
	T. T.				
			: 26433096726 Not Attempted and		
			IMIAIRED FOI REMIEW		
		Chosen Option	-		
Q.88	Dhymessiffraction is defined as				
Ans	✓ 1. ratio of mass of dry steam to total mass of wet steam				
	2. ratio of total volume of wet steam to volume of dry steam				
	X 3. ratio of volume of dry steam to total volume of wet steam X 4. ratio of total mass of wet steam to mass of dry steam				
	4. Tailo of total mass of wet steam to mass of dry steam				
			26433095586		
			Not Attempted and Marked For Review		
		Chosen Option	:=		
Q.89	The pressure below atmospheric value is called				
Ans	✓ 1. vacuum pressure				
	★ 2. absolute pressure				
	X 3. hydrostatic pressure				
	X 4. gauge pressure				
			: 26433095683		
			: Answered		
		Chosen Option	• 4		

Q90 Oil of specific gravity 0.9 is flowing at the rate of 100 littes per second in a 0.30 m diameter pipe. If the pressure head at point P is 3 m of oil and this point P is 44 m above the datum lines, then what will be the total energy at point P in metres of oil? Takeg=100m/s2. X 1.8.1 m of oil Ans 2. 7.1 m of oil X 3. 7.4 m of oil X 4. 7.8 m of oil Question ID : 26433096315 Status : Not Attempted and Marked For Review Chosen Option : == Q.91 The number of helical springs used in a spring loaded safety valve is_ √ 1. one Ans X 2. four X 3. two X 4. three Question ID : 26433095895 Status : Not Attempted and Marked For Review Chosen Option : == Q.92 In order to increase the efficiency off Rankine cycle, Which one of the following statement is incorrect? X 1. By decreasing condenser pressure Ans X 2. By superheating the steam X 3. By increasing boiler pressure 4. By increasing condenser pressure Question ID: 264330100551 Status : Not Attempted and Marked For Review Chosen Option : == Q.93 In a horizontal pipe with a 100 mm diameter, the pressure head loss over a length of 5 metres is found to be 0.85 m. If the coefficient of friction is 0.1, the flow velocity in the pipe will be X 1. 0.5 m/sec Ans X 2. 2 m/sec 3. 0.91 m/sec X 4. 1.5 m/sec Question ID : 26433095665 Status: Not Attempted and Marked For Review Chosen Option : ==

Q.94 For HS diagram of wapor compression refrigeration cycle, which of the following statements: is FAUSSE?

- 1. The compression process is shown by a vertical line.
- X 2. The throttling process is shown by a horizontal line.
- X 4. The evaporation process is shown by a curved line with a negative slope.

Question ID : 26433096758

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.95 For a given impeller diameter, Power of the pump is proportional too: Where N=700tationals speeth in prom

Ans

X 1.1/N

 \times 2. N^2

√ 3. N³

X 4. N

Question ID : 26433096728

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.96 The pressure of charge inducted through the inlet port inside the cylinder in the case of a two-stroke engine is _

Ans

- √ 1. equal to atmospheric pressure
- X 2. less than atmospheric pressure
- X 3. equal to cylinder pressure
- X 4. greater than atmospheric pressure

Question ID : 264330100548

Status : Not Attempted and Marked For Review

Chosen Option : ==

Q.97 Which of the following specification is generally measured in cubic centimeter for an internal combustion engine

Ans

- ✓ 1. Swept volume of cylinder
- 2. Total volume of cooling water
- X 3. Volume of exhaust gases
- 4. Volume of fuel inside tank

Question ID : 264330100577

Status : Not Attempted and Marked For Review

Q.98	8 The Bell-Colorman cycle is an example of	
Ans	1. Brayton cycle	
	2. vapour compression refrigeration cycle	
	★ 3. vapour absorption refrigeration cycle	
	4. air refrigeration cycle	
		Question ID : 26433096761 Status : Not Attempted and Marked For Review Chosen Option :
Q.99	In which type of manometer, a reservoir having a large cross-section as compared to the area of it het little is connected to one of it het limbs	nal area (about 100 times) scofittermanomete??
Ans	1. U-tube differential manometer	
	X 2. Simple U-tube manometer	
	3. Single column manometer	
	X 4. Piezometer	
		Question ID : <u>26433096307</u>
		Status : Not Attempted and Marked For Review
		Chosen Option : ==
Q.100	The efficiency of any reversible engine operating between source re depends on	servoir and sink reservoir
Ans		
	2. the temperature of the source reservoir only	
	★ 4. the nature of working fluid and the temperatures of both res 1. **The content of the	ervoirs
		Question ID : 26433095622
		Status : Not Attempted and Marked For Review
		Chosen Option : ==