## Graduate Aptitude Test in Engineering 2020 09th Feb SI

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Test Center	VMV Commerce JMT Arts & JJP Science College Gate No 2
Name	Nagpur
Test Date	05/02/2020
Test Time	9:30 AM - 12:30 PM
Subject	CEI CIVIL ENGINEERING

Section	 1	A	1:1.	- 1

Q,I	Select	the word	that fits	the ana	ORY:
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Fuse: Fusion:: Use:

Options 1. Usage

- 2. Uses
- 3. User
- 4. Usion

Question ID : 2672365808 Status : Answered

Chosen Option : I

0.2 The American psychologist Howard Carther expounds that human melligence can be substituted with modified kinds, in such a vary that individuals differ with research to their rolative comprisons in each hand thosel on this theory, unders of mathematically many disconnections and exposure mathematical mathematical mathematical mathematics.

Which of the Whicking edapments and he influed from the streen bext?".

Options I.

Howard Gardner winns to develop and misess the theory of multiple intelligences.

Modern educantiseints want to develop and ususes the theory of multiple intelligeness.

 Modern educationists instantian that the assertion cooleration and evaluation route to be multi-dimensioned.

4. The world Charleton inviers that the teaching coericulum and established it is substituted at the could of the control of the could be control.

Question ID : 2672365811

Status ; Not Answered

Chosen Option : --

Q3 Five friends P. Q. R. Sand T wom company: Attright, they had to along in a row inside the term P. Q and T removed to sleep uget to II inside the moved loadly. F and 5 natured to storic Q in he naturally happen possible in along.

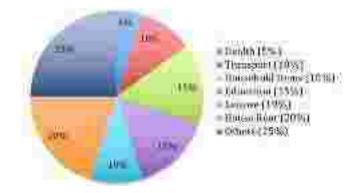
Assuming everyone was anothed with the sleeping arrangements, while is the sedants which they step?

Options 1. QRSPT

- 2. SPRTQ
- 3. QTSPR
- a. RSPTQ

Question ID ; 2572365812 Status : Answered Chosen Option : 3

Q.4 The (0.8) expendinge of a family, on different activities in a month, is shown in the ple-share. The every energy speak on administrate a compared to transport (in percent) of



Options I. 5

- 2.33.3
- 3.100
- 4.50

Question ID : 2672365815 Status : Answered

Chosen Option : 4

Q5 H 0, 1, 2, ..., 3, 8, 9 are codful as O, P, Q, ..., V, W, X, thun 45 will be could us

Options I. SS

- 2. TS
- 3.ST
- 4. SU

Question ID : 2672365809

Status : Answered

Chosen Option : ∃

Q.6 The sum of two instance markets is 100. After scheduling > 0 or product of the resulting numbers is 0 the of the original numbers is 0 options 1. 85  2. 80  3. 90  4. 95	si sach hundber, the
	Question ID : 2672365810 Status : Answered Chosen Option : 3
0.7 It is a common arthright that most of the seedemicines for in their most of the seedemicines for in the se	\$6, (the) \$8 mil
	Question ID : 2672365806 Status : Answered Chosen Option : 3
a.B The unit's place in 26591749 <sup>110016</sup> is  options i. 3 2. 6 3. 1 4. 9	Question ID : 2672365B14 Status : Marked For Review
and the second constitution of the second se	Chosen Option : 3
og Inday seven numbers between and 3-such that the remitting expects to the superconnection of the superconnection	
	Question ID : 2672365813 Status : Not Answered Chosen Option :
a.jo His hunger for coading in ideallable. His leads indiscriminately to community	C is:   sief destainly
	Question ID : 2672365807 Status : Answered Chosen Option : 3

 Disting the present of hydrollon of element, thurbs indivine in Distillation Slikette (CSS) content in correct clinking, the heat of bydration.

Options I. decreases

- 2 does not change
- 3 intially decreases and then increases
- 4. increases

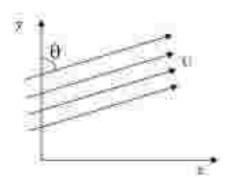
Question ID : 2672365823 Status : Answered Chosen Option : 4

0.2 A rixer has a flow of 1000 million takes per day (MLD), 1800s of 5 mig/line and Disabled Dixegen (DO) level of 8 mig/line before maciring the wintervalor discharge at a location. For the extenting environmental conditions, the extension 1800 each in 10 mig/litre in the siver. Wastersoner discharge of 100 MLD with the BOD; of 200 mig/litre and 500 level of 2 mig/litre falls at mot location. Assuming complete moving of wasteward usel river water, the impediate 100 deficit (in mig/litre, round off to two decimal places); in

Given 3.25 Answer ;

> Question ID : 2672365840 Status : Marked For Review

0.3 Uniform flow with velocity U makes in angle 6 with the praxis, as shown in the figure.



The velocity potential (4%) is

 $^{0ptions} L \pm U(y \sin\theta - x \cos\theta)$ 

 $2 \pm U(y \sin\theta + x \cos\theta)$ 

 $\pm U(x \sin\theta - y \cos\theta)$ 

 $4 \pm U(x \sin\theta + y \cos\theta)$ 

Question ID : 2672365829 Status : Answered Chosen Option : 2 0.4 The true value of Inf2) is 0.69. If the value of Inf2) is obtained by libest interpolation between bill and bulb. The percentage of abudant error (count inf to the neuron interpola.

Options I. 84

- 2.35
- 3.69
- 4.48

Question ID : 2672365818 Status : Not Answered

Chosen Option : --

Q5 In the full owing partial differential equation, Q is a function of r and z, and D and K are functions of Q.

$$D(\theta)\frac{\partial^2 \theta}{\partial z^2} + \frac{\partial K(\theta)}{\partial z} - \frac{\partial \theta}{\partial t} = 0$$

The above equation is

Options I. a second degree non-linear equation

- z a second degree linear equation
- 3. a second order linear equation
- 4 a second order non-linear equation

Question ID : 2672365816 Status : Answered

Chosen Option : 2

QE A fully subinerged influire mody slope has an inclination of 70° with the horizontal. The saturated unit weight and effective under of internal friction of saturated 88 kN/m² and 38°, respectively. The unit weight of system is 10 kN/m². Assume that the sempage is parallel to the slope. Against show factors of the slope interfactor of safety (mond off or non-decemply places) in

Given 2.B Answer :

> Question ID : 2672365838 Status : Answered

0.7 The probability that a 50 year flood may NOT accurat all during 25 years life of a project (count off to our decising places), is

Given ≥ Answer :

> Question ID : 2672365833 Status : Marked For Review

QB The data for an agricultural field for a specific mount my given below: Pan Congruntion  $-100 \, \mathrm{mm}$ fiffective Eminfall - 20 mm rather districting losses due to runoff and deep-percyllitims) =6,4 Crop Coefficient brigamon terminones -0.5The amount of irrigation water (in autr) to be applied to the field in that month, is Options I. 20 2. () 3.80 4.40 Question ID: 2672365830 Status: Not Answered Chosen Option: -a.g. An amount of 35,07 mg HCl in added to distilled water and the joint solution vidame is made to one line. The atomic weights of H and Cl are 1 and 353, manocricely. Segmenting the dissuciation of water, the pH of the solution, is Options I. 2.01 2.3.01 3.2.50 4.3.50 Question ID: 2672365832 Status: Not Answered Chosen Option: -a.jo In a still levestimation work at a site. Standard Peractution Test (SPT) was conducted at every 1.3 in interval up to 30 in depth. At 3 in dupth, the observed marker of human's bloom for three successive 150 mm penetrations were 8, 6 and 9, respectively. The SPT N-value at 3 m depth, is Options I. 23 2.15

3.14

4.17

Question ID : 2672365826 Status : Answered

Chosen Option: I

 Astrocky of the in proportional to the first power of hydraulic gradient in Dancy's hiss. This few is applicable to Options I, transitional flow in porous media 2 laminar as well as turbulent flow in porous media 3. turbulent flow in porous media 4 laminar flow in porous media Question ID: 2672365827 Status : Not Answered Chosen Option: --A 4 m wide rorangular channel carries 6 m is of water. The Manning's 16 of the Q.12 open channel is 0.02. Considering g=9.81 now, the critical valocity of those the mes, enough off to two as come placery in the channel, is , Given 3.B Answer: Question ID: 2672365839 Status: Marked For Review QJ3 In a risk-dimensional atress analysis, the state of stress at a point P is:  $[n] = \begin{bmatrix} \sigma_{xx} & \Gamma_{xy} \\ \epsilon_{yy} & \sigma_{yy} \end{bmatrix}$ The needstary and sufficient condition for extrance of the state of your shear at the point P. in Options 1.  $\sigma_{xx}+\sigma_{yy}=0$  $a \sigma_{xx} \sigma_{yy} - \tau_{xy}^2 = 0$ 4. Question ID : 2672365822 Status: Not Answered Chosen Option: --Q.J4 Given 5 Answer: Question ID: 2672365836 Status : Answered Q.J5 Options I. ∄. Question ID ; 2672365817 Status: Answered Chosen Option: 4

Q./E	
Given 9 Answer :	
	Question ID : 2672365835 Status : Answered
QJ7	
Options I.	
г. З.	
э. 4.	
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	Question ID : 2672365820 Status : Not Answered Chosen Option :
Q.IB	
Options I.	
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	Question ID : 2672365825
	Status ; Not Answered
	Chosen Option :
QJg	
Given Answer :	
	Question ID : 2672365837
	Status : Not Answered
Q.2.0	
Given 231,4 Answer :	
	Question ID : 2672365834
	Status : Answered
Q.2I	
Options I.	
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	Question ID : 2672365824
	Status : Answered
	Chosen Option : I

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	Question ID ; 2672365B19 Status ; Answered
	Chosen Option : 3
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	Question ID : 2672365828
	Status ; Answered
	Chosen Option : 4
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	Question ID : 2672365831
	Status : Not Answered
	Chosen Option :
Q.25	
Options I.	
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	Question ID : 2672365821
	Status : Not Answered
	Chosen Option :
0.75	
Q.26	
Given Answer :	
	Question ID : 2572355860
	Status : Not Answered
	Status , not mamerea
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Given 45 Answer :	
	Question ID : 2572355859
	Status : Answered
	Cidius i illiamentu

Q.2B	
Options I.	
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	Question ID : 2672365852
	Status ; Not Answered  Chosen Option ;
	Chosen Option ,
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Given EO	
Answer:	
	Question ID : 2672365870
	Status : Answered
0.30	
Options I.	
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	Question ID : 2672365850
	Status : Not Answered
	Chosen Option :
Q.3I	
Options I.	
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	Question ID : 2672365843
	Status : Answered
	Chosen Option ; 4
Q.32	
Options I.	
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	Question ID : 2672365845
	Status : Answered
	· ·
	Chosen Option : 2

Q.33	
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	Outside ID . 3573755 FAN
	Question ID : 2672365841 Status : Not Answered
	Chosen Option :
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Q.34	
Given 23.4B Answer :	
	Question ID : 2672365858
	Status : Answered
Q.35	
Given	
Answer:	
	Question ID : 2672365867
	Question ID:2b/23b5Bb/ Status:Not Answered
	Status , nut raisweign
Q.3 <i>G</i>	
Options I.	
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4,	
	Question ID : 2672365848
	Status : Marked For Review
	Chosen Option : 4
Q.37	
Given 4	
Answer:	
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	Question ID : 2672365866 Status : Answered
	Juatus , Alisweieu
Q.3B	
Given	
Answer:	
	0a-11 ID . 3573355055
	Question ID : 2672365856 Status : Not Answered
	Question ID : 2672365856 Status : Not Answered

Q.39	
Options I.	
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	Question ID : 2672365842
	Status ; Not Answered
	Chosen Option :
Q.40	
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	Outstan ID . 3573355 gra
	Question ID : 2672365869 Status : Answered
	- C.C. (17) (10) (10)
Q.AI	
Given 36	
Answer:	
	Question ID : 2672365862
	Status ; Answered
0.42	
Given 120 Answer:	
	Question ID ; 2672365857
	Status ; Marked For Review
0.47	
Q.43	
Given 3.B Answer :	
	Question ID : 2672365864
	Status : Answered
Q.44	
Options I.	
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4.	
	Question ID ; 2672365846
	Status : Not Answered
	Chosen Option :

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Options I.	
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<i>a.</i>	
	Question ID : 2672365847
	Status : Not Answered
	Chosen Option :
Q.46	
Given Answer :	
	Question ID : 2672365863 Status : Not Answered
	Status , not Answered
Q.47	
Options I.	
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	Question ID : 2672365844
	Status : Not Answered
	Chosen Option :
Q.4 <i>H</i>	
Given I	
Answer :	
	Question ID : 2672365854
	Status : Answered
Q.A.g	
Options I.	
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, "	
	Question ID : 2672365853
	Status : Not Answered Chosen Option :
	Enosen Option ,
Q.50	
Options I.	
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<b>3</b> .	
<i>a.</i>	
	Question ID : 2672365849
	Status : Not Answered
	Chosen Option :

Q.51	
Given 68.5	
Answer :	
	Question ID : 2672365861
	Status : Answered
0.52	
Options I.	
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З.	
4.	
	Question ID : 2672365851
	Status : Not Answered
	Chosen Option :
Q.5 <del>3</del>	
Given	
Answer ;	
	Question ID : 2672365868
	Status : Not Answered
Q.54	
Given	
Answer:	
	0 11 10 1573755855
	Question ID : 2672365865 Status : Not Answered
	Status , not Answered
0.55	
Given-5	
Answer:	
	Question ID : 2672365855
	Status ; Answered