GSECL JE

Previous Year PaperCivil 2018

GENERAL KNOWLEDGE - GENERAL KNOWLEDGE	
Question No.1	1.00 Bookmark
When was the French East India Company established? 1500 - (Alternative 2)	
1600 - (Alternative 2)	
1725 - (Alternative 4)	
1664 - (Alternative 1)	
Question No.2	1.00 Bookmark □
Which among the following is a sexually transmitted bacterial disease?	
Herpes - (Alternative 3)	
Hepatitis - (Alternative 4)	
Syphilis - (Alternative 2) AIDS - (Alternative 1)	
AIDS - (Aitemative 1)	
Question No.3	1.00
	Bookmark
Which of the following actors received the 24th Crystal award at the World Economic Forum?	
Cate Blanchett - (Alternative 2)	
Aamir Khan - (Alternative 4)	
Shah Rukh Khan - (Alternative 3)	
Emma Stone - (Alternative 1)	
Question No.4	1.00 Bookmark
COPD is caused by inhaling	BOOKIIIAIK —
Crystalline silica particles - (Alternative 4)	
Carbon Dust - (Alternative 2)	
Carbon dioxide - (Alternative 1)	
Question No.5	1.00
Which country had the maximum Fereign direct investment (FDI) inflows in India in 20172	Bookmark
Which country had the maximum Foreign direct investment (FDI) inflows in India in 2017? Japan - (Alternative 4)	
Singapore - (Alternative 1)	
Mauritius - (Alternative 2)	
USA - (Alternative 3)	
Question No.6	1.00 Bookmark □
In the Mughal dynasty, who was the ruler of the darkened period of their history?	DOOKIIIaik —
Mohammed Sahib - (Alternative 1)	
Aurangzeb - (Alternative 3)	
Mohammad Shabeer - (Alternative 2)	
Akbar - (Alternative 4)	
Question No.7	1.00
Question No.7	Bookmark
Which was the first ship of the East India Company that entered into India through Gujarat?	
Hector - (Alternative 1)	
II	

 Grappler - (Alternative 2) RMS Andes - (Alternative 3) None of these - (Alternative 4) 	
	1.00
Bookmark After the economic liberalisation of 1991, India achieved an average GDP annual growth of	
□ 3-4% - (Alternative 4)	
6-7% - (Alternative 1)	
4-5% - (Alternative 3)	
5-7% - (Alternative 2)	
Question No.9 Bookmark	1.00
Which among the following continents covers all the 4 hemispheres of the Earth?	
Asia - (Alternative 2)	
○ Europe - (Alternative 3)	
○ Africa - (Alternative 1)	
Question No.10 Bookmark	1.00
Which of Rachel Morrison's films was nominated for an Oscar? ○ Rikers High - (Alternative 1)	
Sound of my voice - (Alternative 4)	
○ Honoree - (Alternative 2)	
ENGLISH KNOWLEDGE - ENGLISH KNOWLEDGE	
4.000.000	1.00
Identify the part of the sentence which contains an error:- Ram did not like (1)/leaving his old grandparents alone in the house (2)/ but he had no alternative (3)/ as he has to go out to work (4)/ No error (5) 5 - (Alternative 4) 1 - (Alternative 2) 4 - (Alternative 1) 3 - (Alternative 3)	
Question No.2	1.00
Bookmark Choose the correct sequence from the given options by rearranging the sentences to form a meaningful	
passage:- 1.In 1856, a very famous burglary called the Cornhill burglary took place in England and the demand for burglar -	
proof safes increased. 2. The interesting thing is that it is still in demand for the safe-keeping of diamonds because it is the only drill-	
proof safe known to date. 3. The attempt to keep one's treasures in a specially protected place away from all harm is natural to all creatures.	
4. A safe has now come to mean any large room or box which is used to keep valuables secure.5. Human beings developed a 'safe' over a long period of time after much trial and error.	
6. In 1860, a patent was taken out by safe manufacturer called Samuel Charewood for a new and improved safe. 354162 - (Alternative 2)	
162354 - (Alternative 2)	
□ 354126 - (Alternative 4)	
□ 345162 - (Alternative 1)	
	1.00
Chaosa the correct word in substitution for the contenes given below:	
Choose the correct word in substitution for the sentence given below:- Have a desire for something or someone who is not present	
o delusion - (Alternative 3)	

sedition - (Alternative 4) yearn - (Alternative 1) façade - (Alternative 2)	
Question No.4	1.00 Bookmark
Choose the word opposite in meaning to:- DWELL	DOOKIIIAIK —
abscond - (Alternative 4)	
bail out - (Alternative 3)tarry - (Alternative 2)	
hang around - (Alternative 1)	
C maning around (anomaliar)	
Question No.5	1.00 Bookmark
Choose the appropriate alternative for the italicized words:- Security <i>has escalated</i> at the Railway station in the wake of an intelligence report of a bomb attacgroup.	
had been escalated - (Alternative 1)	
have escalated - (Alternative 3)	
have been escalated - (Alternative 4)	
has escalated - (Alternative 2)	
Question No.6	1.00 Bookmark □
Choose the word similar in meaning to:- SANGUINE	
Enthusiastic - (Alternative 2)	
Dispassionate - (Alternative 4)Genuine - (Alternative 1)	
Optimistic - (Alternative 3)	
Optimistic - (Atternative 3)	
Question No.7	1.00 Bookmark □
Choose the correct option similar to the idiom given below:- "Barking up the wrong tree"	200
barking at the other dog - (Alternative 3)	
expert in shouting - (Alternative 1)	
Accusing the wrong person - (Alternative 4)	
o climbing the wrong tree - (Alternative 2)	
Question No.8	1.00
Choose the word with the correct spelling:-	Bookmark
ecert - (Alternative 3)	
exert - (Alternative 2)	
excert - (Alternative 1)	
eksert - (Alternative 4)	
Question No.9	1.00 Bookmark
Fill in the blank with the suitable preposition:- What is the reason behind the rise the wall st on - (Alternative 1)	
at - (Alternative 3)	
of - (Alternative 2)	
behind - (Alternative 4)	
Question No.10	1.00 Bookmark
Fill in the blank with the suitable article: apples are grown in Kashmir.	
A - (Alternative 1)	
The - (Alternative 3)	
An - (Alternative 2)	

○ No article - (Alternative 4)	
CIVIL ENGINEERING - CIVIL ENGINEERING	
Question No.1 Shear keys are provided in cantilever retaining walls to take care of	1.00 Bookmark □
Buckling - (Alternative 3)	
Overturning - (Alternative 2)	
Bearing failure - (Alternative 4)Sliding - (Alternative 1)	
Onding - (Alternative 1)	
Question No.2	1.00
The sludge treatment is mainly done to stabilize	Bookmark
○ Formation of gases - (Alternative 4)	
○ Inorganic materials - (Alternative 1)	
The growth of pathogenic bacteria - (Alternative 3)	
Organic materials - (Alternative 2)	
Question No.3	1.00
Methane gas can be collected from the engineered landfill through .	Bookmark
Gas chambers - (Alternative 2)	
○ Leechates - (Alternative 3)	
○ Biomass storage - (Alternative 1)	
Gas pipes - (Alternative 4)	
Question No.4	1.00
CPM is .	Bookmark
Time oriented technique (Alternative 3)	
Activity oriented technique (Alternative 2)	
Resource oriented technique (Alternative 4)	
Event oriented technique (Alternative 1)	
Question No.5	1.00 Bookmark
When the forces in a few members of a truss are to be determined, the preferred method of analysis	BOOKIIIAI K
is Tension coefficient method - (Alternative 3)	
Method of sections - (Alternative 2)	
Graphical method - (Alternative 4)	
○ Method of joints - (Alternative 1)	
Question No.6	1.00
	Bookmark
The flexibility of a structure is defined as The displacement caused by unit force - (Alternative 1)	
Moment required for unit displacement - (Alternative 3)	
The force required for unit displacement - (Alternative 2)	
Question No.7	1.00
The condition of a structure which no longer fulfills the relevant design criteria is called	Bookmark
Collapse state - (Alternative 4)	_·
○ Working state - (Alternative 3)	
○ Limit state - (Alternative 1)	
○ Ultimate state - (Alternative 2)	

Question No.8	1.00 Bookmark
In a bituminous pavement, alligator cracking is mainly due to	
Inadequate wearing course - (Alternative 1)	
□ Inadequate thickness of sub base - (Alternative 2)	
 Use of excess bituminous material - (Alternative 3) Fatigue arising from repeated stress applications - (Alternative 4) 	
Fatigue arising from repeated stress applications - (Atternative 4)	
Question No.9	1.00 Bookmark
The partial differential equation for the complete solution $z = ae^x + b \log y$ where a and b are arbitrary constants, is of the form	
$z = e^{-x} \frac{\sigma z}{\partial x} + \log y \frac{\sigma z}{\partial y} - \text{(Alternative 2)}$	
$z = \frac{\partial z}{\partial x} + y \log y \frac{\partial z}{\partial y} - \text{(Alternative 4)}$	
$z = e^{x} \frac{\partial z}{\partial x} + \frac{1}{y} \frac{\partial z}{\partial y} - \text{(Alternative 3)}$	
$z = \frac{\sigma z}{\partial x} + logy \frac{\sigma z}{\partial y} - (Alternative 1)$	
Question No.10	1.00
Question No. 10	Bookmark =
For torsional reinforcement, side face reinforcement with torsion shall be provided along the two sides,	
depth of web of beam exceeds 300 mm - (Alternative 2)	
750 mm - (Alternative 4)	
250 mm - (Alternative 1)	
450 mm - (Alternative 3)	
(Alternative o)	
Question No.11	1.00
The extra widening required for a two-lane NH at a horizontal curve of radius 300 m, considering a whe 8 m and a design speed of 100 km/hr is	Bookmark □ eel base of
0.82 m - (Alternative 3)	
○ 0.32 m - (Alternative 2)	
○ 0.42 m - (Alternative 4)	
○ 0.72 m - (Alternative 1)	
Question No.12	1.00
D. F. L. A	Bookmark
Radial stresses in a thin spherical pressure vessel is Double the hoop stress - (Alternative 3)	
Half the hoop stress - (Alternative 3)	
Equal to the hoop stress - (Alternative 4)	
Zero - (Alternative 1)	
Question No.13	1.00 Bookmark
	DOOKIIIAIK —

The analy	ytic functio	on $w = f(z) = u + iv$ whose real part $u = e^x siny$ is given by	
	- ie²	- (Alternative 1)	
	ie ^{-iz}	- (Alternative 4)	
ie i	e ^{-z} -	(Alternative 2)	
e	2 ^{lz}	- (Alternative 3)	
Questic	on No.14		1.00 Bookmark
		wing footings of equal width, the vertical stress extends to a larger depth below its	
	-	g - (Alternative 1)	
	_	r footing - (Alternative 3)	
	=	ting - (Alternative 2)	
	ircular 10	oting - (Alternative 4)	
Questic	on No.15		1.00
			Bookmark
In the inte	ersection r	method of plane table surveying, the number of stations needed to be set up	
	epending	upon the sides of the parallelogram - (Alternative 4)	
⊕ T	wo - (Alte	rnative 2)	
	•	ternative 3)	
0	ne - (Alter	rnative 1)	
Questic	on No.16		1.00
 			Bookmark
	-	uation, used in pipe flow, each term represents unit volume - (Alternative 3)	
		r unit weight - (Alternative 1)	
	•••	unit flow length - (Alternative 4)	
E	nergy per	unit mass - (Alternative 2)	
<u> </u>			
Questic	on No.17		1.00
If a lacing lacing will	g is to be d	designed to carry an axial load of 400 kN, then the transverse shear to be resisted by	Bookmark oy the
		rernative 2)	
	•	ternative 4)	
0 4	0 kN - (Alt	ternative 1)	
0 2	0 kN - (Alt	ernative 3)	
Ougotio	on No.18		1.00
Questic	11 NO.18		Bookmark
	d with can evation is n	nber of 3% and design speed of 80 km/hr, the minimum radius of the curve beyond needed, is	
	•	ternative 1)	
	•	Alternative 4)	
	-	Iternative 3)	
4	บ6 m - (Ali	ternative 2)	
Questic	on No.19		1.00 Bookmark

The stationary point (x, y) of the function $f(x, y) = xy + \frac{9}{x} + \frac{3}{y}$ is given by	
(3,-1) - (Alternative 4)	
(-1,3) - (Alternative 2)	
(-1,-3) - (Alternative 1) (3,1) - (Alternative 3)	
Question No.20	1.00 Bookmark
As per IRC recommendations, average level of illumination on important roads carrying fast traffic is_ 10 lux - (Alternative 4) 30 lux - (Alternative 2) 20 lux - (Alternative 1) 5 lux - (Alternative 3)	
Question No.21	1.00 Bookmark
For unstiffened flange of a beam in flexural compression, maximum allowable outstand is equal to 40t - (Alternative 1)	·
 50t - (Alternative 4) 16t - (Alternative 2) 12t - (Alternative 3) 	
Question No.22	1.00 Bookmark
Given $u(t)$ is a unit step function, $F\{u(t)e^{-t}\}$ is equal to	
- (Alternative 1)	
$\frac{s}{s+i}$ - (Alternative 4)	
- (Alternative 3)	
s - (Alternative 2)	
Question No.23 One of the efficient method of strengthening the foundation of the existing building is	1.00 Bookmark
Underpinning process - (Alternative 2)	

Increasing the size of members - (Alternative 1)Provide additional reinforcement - (Alternative 4)	
Question No.24	1.00
If 4 hour unit hydrograph of a basin can be approximated as a triangle with a base period of 48 hours a ordinate of 20000 m³/s, then the area of the basin is 864 km² - (Alternative 1) 3456 km² - (Alternative 3) 1728 km² - (Alternative 2) 5184 km² - (Alternative 4)	Bookmark □ and a peak
Question No.25	1.00
If a structure is statically indeterminate to second degree, then maximum number of plastic hinges requirender the structure mechanism is 2 - (Alternative 2) Infinite - (Alternative 4) 3 - (Alternative 3) 1 - (Alternative 1)	Bookmark □ uired to
Question No.26	1.00 Bookmark
Engineering system of disposal of domestic waste means Dumping of solid waste only on a daily basis - (Alternative 1) Treatment by using chemicals on a daily basis - (Alternative 4) Dumping, spreading and covering with soil on a daily basis - (Alternative 3) Incineration of solid waste on a daily basis - (Alternative 2)	DOORHIGH =
Question No.27	1.00 Bookmark
For air-entrained concrete, compressive strength is approximately % of non-air entrained concount 16 - (Alternative 1) 70 - (Alternative 3) 80 - (Alternative 4) 65 - (Alternative 2)	
Question No.28	1.00 Bookmark
The Sewage Treatment which works on the degradation of organic matter by the agency of living organicalled	
Primary treatment - (Alternative 2)	
Tertiary treatment - (Alternative 4)Total treatment - (Alternative 1)	
Secondary Treatment - (Alternative 3)	
Question No.29	1.00 Bookmark
Height of collimation method is preferred when the levelling ground is Fairly level ground - (Alternative 3)	DOOKIIIAIR —
□ To cross a barrier - (Alternative 4)	
Having high altitudes - (Alternative 2)Having deep slopes - (Alternative 1)	
Question No.30	1.00
Which method of waterproofing is used in the wet areas of toilets?	Bookmark
Cementitious waterproofing - (Alternative 4)	
Liquid waterproofing membrane - (Alternative 1)Bituminous membrane - (Alternative 2)	
Statistical membrane (mondate 2)	

○ Bituminous coating - (Alternative 3)	
Question No.31 Driving of piles causes densification of loose cohesion less soil up to radial distance of 2.5 times pile diameter - (Alternative 2) 3.5 times pile diameter - (Alternative 3) 1.5 times pile diameter - (Alternative 1) 4.5 times pile diameter - (Alternative 4)	1.00 Bookmark □ -
Question No.32 The separation of water or water-cement mixture from freshly mixed concrete is called as	1.00 Bookmark =
Question No.33 As per IS 456:2000, the spacing of longitudinal bars measured along the periphery of the column shall exceed 250 mm - (Alternative 3) 300 mm - (Alternative 2) 150 mm - (Alternative 4) 350 mm - (Alternative 1)	1.00 Bookmark □ not
Question No.34 The Fourier coefficient a_1 for the function $f(x) = e^{-x}$ in the interval $0 < x < 2\pi$ is $ \frac{1-e^{-2\pi}}{2\pi} - \text{(Alternative 2)} $ $ \frac{1+e^{-2\pi}}{\pi} - \text{(Alternative 4)} $ $ \frac{1-e^{2\pi}}{2\pi} - \text{(Alternative 4)} $	1.00 Bookmark □
Question No.35 The voids ratio at the natural, the loosest and the densest state of a sand deposit are 0.5, 0.3 and 0.7 respectively. The relative density of the sand deposit is 50% - (Alternative 2) 75% - (Alternative 3) 25% - (Alternative 1) 100% - (Alternative 4)	1.00 Bookmark
Question No.36	1.00

Water is flowing in an upward direction through the structure of sand 5 m thick under a tota m. The sand has a specific gravity of 2.55 and voids ratio of 0.55. The factor of safety agair	
n. The sand has a specific gravity of 2.55 and voids ratio of 0.55. The factor of safety again would be	nst quick condition
3 - (Alternative 3)	
1.67 - (Alternative 1)	
○ 1.5 - (Alternative 4)	
□ 1 - (Alternative 2)	
Question No.37	1.00 Bookmark
A single acting reciprocating pump running at 50 rpm has the diameter of the piston as 200	
ength 400 mm. The theoretical discharge of the pump is 10.5 lit/sec - (Alternative 1)	
5.25 lit/sec - (Alternative 2)	
21 lit/sec - (Alternative 3)	
62 lit/sec - (Alternative 4)	
Question No.38	1.00 Bookmark
	Bookinark —
The eigenvalues of the matrix $A = \begin{bmatrix} cos\theta & sin\theta \\ -sin\theta & cos\theta \end{bmatrix}$ are given by	
$1 + e^{\pm i\theta}$ - (Alternative 2)	
$1-e^{\pm i\theta}$	
$\frac{1+e^{\pm i\theta}}{1+e^{\pm i\theta}}$ - (Alternative 4)	
$1 - e^{\pm i\theta}$ - (Alternative 1)	
$e^{\pm i\theta}$ - (Alternative 3)	
Question No.39	1.00
	Bookmark
Two plates of 12 mm and 14 mm are to be joined by a fillet weld, the maximum size of fillet	t weld is
15.5 mm - (Alternative 4)10.5 mm - (Alternative 2)	
12.5 mm - (Alternative 3)	
13.5 mm - (Alternative 1)	
Question No.40	1.00
	Bookmark
The failure due to over-reinforced beam is called	
Collapse failure - (Alternative 3)Shear failure - (Alternative 4)	
Tension failure - (Alternative 1)	
Compression failure - (Alternative 2)	
- Compression randre (Attendante 2)	
Question No.41	1.00
Fransfer stations are required for	Bookmark
Separation of domestic waste - (Alternative 2)	
Disposal of domestic waste - (Alternative 4)	
Treatment of domestic waste - (Alternative 3)	
Collection of domestic waste - (Alternative 1)	

Quantities No. 42	
Question No.42	1.00 Bookmark
As per IS:1904-1986, the minimum depth of shallow foundation is	BOOKIIIai K
○ 0.75 m - (Alternative 2)	
1.00 m - (Alternative 3)	
O.50 m - (Alternative 1)	
Question No.43	1.00 Bookmark
For open wells, ratio of safe depression head to critical depression head is equal to	
3/4 - (Alternative 2)	
□ 1/2 - (Alternative 1)	
■ 1/3 - (Alternative 3)	
2/3 - (Alternative 4)	
Question No.44	1.00
In stadia method if k is the multiplying factor, s is the staff intercept, c is the additive constant o	Bookmark □ f the instrument.
then the distance equation is given by the expression	·,
□ D= k+cs - (Alternative 1)	
□ D=k/s +c - (Alternative 3)	
□ D= k+c/s - (Alternative 4)	
D= ks+c - (Alternative 2)	
Question No.45	1.00
The main requirement of the waterproofing petroleum asphalt is	Bookmark
High Plasticity - (Alternative 3)	
High temperature sensitivity - (Alternative 4)	
Low viscosity - (Alternative 2)	
─ High viscosity - (Alternative 1)	
Question No.46	1.00
A Court about indicates.	Bookmark
A Gantt chart indicates:	
Progress cost of the project - (Alternative 4)	
Progress cost of the project - (Alternative 4) Efficiency of project work - (Alternative 3)	
■ Efficiency of project work - (Alternative 3)	
	ernative 1)
 Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative 2) 	ernative 1)
Efficiency of project work - (Alternative 3)Balance work to be done - (Alternative 2)	
 Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative 2) 	1.00
Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative No.47	1.00
Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative No.47	1.00
Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative No.47 The radius of curvature at the point $(0,c)$ of the curve $y = c \cosh\left(\frac{x}{c}\right)$ is	1.00
Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative No.47 The radius of curvature at the point $(0,c)$ of the curve $y = c \cosh\left(\frac{x}{c}\right)$ is $\frac{c\sqrt{c}}{2}$ - (Alternative 1) $\frac{\sqrt{c}}{2}$ - (Alternative 2)	1.00
Efficiency of project work - (Alternative 3) Balance work to be done - (Alternative 2) dependency relationships between activities and current schedule status (Alternative No.47 The radius of curvature at the point $(0,c)$ of the curve $y = c \cosh\left(\frac{x}{c}\right)$ is $\frac{c\sqrt{c}}{2}$ - (Alternative 1)	1.00

Question No.48

Bookmark A sewer, which receives sewage from the collection system and connects it to a point of final disposal plant is

Separate sewer - (Alternative 3)

called

- Outfall sewer (Alternative 1)
- Branch sewer (Alternative 4)
- Lateral sewer (Alternative 2)

Question No.49 1.00

Bookmark

1.00

The solution of the differential equation $\frac{d^2y}{dt^2}+y=0$, y(0)=0, $y\left(\frac{\pi}{2}\right)=-1$ is given

$$y = -\sin t - (Alternative 2)$$

$$y = -\cos t - (Alternative 3)$$

$$y = -\cos t$$
 - (Alternative 3)

$$y = \sin t$$
 - (Alternative 1)

$$y = \cos t$$
 - (Alternative 4)

Question No.50 1.00

Bookmark

$$L^{-1}\left\{\frac{1}{s^2(s+1)}\right\}$$
 is equal to

$$e^{-t} - 1 - t$$
 - (Alternative 4)

$$e^{-t} + 1 - t$$
 - (Alternative 1)

$$e^{-t} - 1 + t$$
 - (Alternative 2)

$$e^{-t} + 1 + t$$
 - (Alternative 3)

1.00 **Question No.51**

Bookmark

The value of the integral $\int_0^1 \int_0^{1-x} y \ dy \ dx$ is equal to

1 - (Alternative 1)

$-\frac{1}{6} - (Alternative 3)$	
- (Alternative 2)	
Question No.52 What is the factor of safety of a 20° slope of an infinite extent in a cohesion less soil whose angle of sh resistance is 30°? 1.25 - (Alternative 1) 2 - (Alternative 4) 1.5 - (Alternative 2) 1.75 - (Alternative 3)	1.00 Bookmark □ nearing
Question No.53 The Split spoon sampler is used for conducting Borehole shear test - (Alternative 1) Pressure meter test - (Alternative 3) Standard Penetration test - (Alternative 4) In situ vane shear test - (Alternative 2)	1.00 Bookmark
Question No.54 As per IS 456:2000, the maximum quantity of cement for any concrete mix should not exceed 100 kg - (Alternative 4) 200 kg - (Alternative 1) 450 kg - (Alternative 3) 350 kg - (Alternative 2)	1.00 Bookmark ■
Question No.55 The smallest soil particle which is visible to the naked eye has a size of about 0.001 mm - (Alternative 1) 0.01 mm - (Alternative 2) 0.75 mm - (Alternative 4) 0.075 mm - (Alternative 3)	1.00 Bookmark
Question No.56 When the backfill with Ø =30° is subjected to a surcharge pressure q, the intensity of active earth pressure q q/4 - (Alternative 4) □ q/4 - (Alternative 4) □ q/3 - (Alternative 3) □ q/2 - (Alternative 2)	1.00 Bookmark □ sure at the
Question No.57 In a compaction test, if the compaction effort is increased, the optimum moisture content Decreases - (Alternative 2) Is Consistent - (Alternative 3) Decreases first and then Increases - (Alternative 4) Increases - (Alternative 1)	1.00 Bookmark □ -
Question No.58	1.00 Bookmark

The depth of flow for maximum discharge through a circular channel of 1.0 m diameter is	
1.5 m - (Alternative 3)	
1.9 m - (Alternative 1)	
0.95 m - (Alternative 4)	
1.7 m - (Alternative 2)	
Question No.59	1.00
If a continuous beam ABCDE is having DE as overhang, the distribution factors at joint D are:	Bookmark
□ DFpc = 1, DFpe = 0 - (Alternative 4)	
DFDc = 0.75, DFDE = 0.25 - (Alternative 3)	
DFDC = 0.5, DFDE = 0.5 - (Alternative 1)	
○ DFpc = 0.25, DFpe = 0.75 - (Alternative 2)	
Question No.60	1.00
A simply supported beam of length 3 m carries two point loads of 1 kN each acting at a distance of	
supports. The value of maximum bending moment at mid span will be	
1.5 kN/M - (Alternative 3)	
0.5 kN/M - (Alternative 1)	
1 kN/M - (Alternative 4)	
2 kN/M - (Alternative 2)	
COMPUTER KNOWLEDGE - COMPUTER KNOWLEDGE	
Question No.1	1.00
The attribute AGE is calculated from DATE_OF_BIRTH. Thus the attribute AGE is a	Bookmark
composite attribute - (Alternative 2)	
compound attribute - (Alternative 3)	
o simple attribute - (Alternative 1)	
derived attribute - (Alternative 4)	
Question No.2	1.00
	Bookmark
Multimedia systems require hard real time scheduling to	
 ensure critical tasks will be serviced within timing deadlines - (Alternative 1) for security - (Alternative 4) 	
minimize the delay - (Alternative 3)	
deliver the media file to the client - (Alternative 2)	
Question No.3	1.00 Bookmark □
Unauthorized control over a web server and its associated software is called	Dookillark —
Computer hacking - (Alternative 4)	
Network hacking - (Alternative 1)	
Website hacking - (Alternative 3)	
Ethical hacking - (Alternative 2)	
Question No.4	1.00
T. () () () () () () () () () (Bookmark
The full-form of MPEG is Modify Pictures Editing Group (Alternative 4.)	
Modify Pictures Editing Group - (Alternative 4)Motion Pictures Experts Group - (Alternative 1)	
Modify Pictures Experts Group - (Alternative 1) Modify Pictures Experts Group - (Alternative 2)	
Moving Pictures Experts Group - (Alternative 3)	
Question No 5	4.00
Question No.5	1.00 Bookmark □
Which among the following devices is used to transmit data over telecommunication lines?	
o platform - (Alternative 4)	

modems - (Alternative 1) drives - (Alternative 3) driver - (Alternative 2)	
Question No.6	1.00
The protocol used to find the hardware address of a local device is	Bookmark
ARP - (Alternative 2)	
RARP - (Alternative 3)	
☐ IP - (Alternative 4) ☐ ICMP - (Alternative 1)	
- Civil - (Alternative 1)	
Question No.7	1.00 Bookmark □
What is the maximum number of worksheets that can be created in three MS-Excel workbooks? 255 - (Alternative 4)	DOOKIIIAIN —
765 - (Alternative 3)	
755 - (Alternative 2)	
721 - (Alternative 1)	
Question No.8	1.00 Bookmark □
In which year was MS-Excel launched? 1985 - (Alternative 1)	
1992 - (Alternative 1)	
1987 - (Alternative 4)	
□ 1986 - (Alternative 2)	
Question No.9	1.00
In which one of the following years was the optical mouse introduced?	Bookmark
1980 - (Alternative 2)	
1991 - (Alternative 3)	
1970 - (Alternative 1) 1982 - (Alternative 4)	
1502 - (Alternative 4)	
Question No.10	1.00
What converts assembly level language into machine level language?	Bookmark
Compiler - (Alternative 1)	
☐ Interpreter - (Alternative 3)	
Assembler - (Alternative 2)	
Processor - (Alternative 4)	
GUJARATI LANGUAGE & GRAMMAR - GUJARATI LANGUAGE AND GRAMMAR	
Question No.1	1.00 Bookmark □
જોડણીશુદ્ધિની દ્રષ્ટીએ નીયેમાંથી કયા જોડકાં/જોડકાંઓની જોડણી ખોટી છે?	DOUNIIIAIK —
1. માનવીય-માનનીય 2. આત્મીય-ભારતીય	
3. માલવીયા-રજનિશ 4. માનસીક-પ્રાથમીક	
્ર 4. માનલાક-પ્રાથમાક	
ં ર અને 4 - (Alternative 4)	
ં 3 અને 4 - (Alternative 3)	
ા પને 4 - (Alternative 2)	
Question No.2	1.00
	Bookmark
નીયેના પૈકી કયું વાક્ય ઉપમા અલંકારનું છે?	

ં યાંદની પૃથ્વી પર આશીર્વાદની જેમ પથરાય છે (Alternative 2) ં જેઓ વૃક્ષને પ્રેમ નથી કરતા, એમનામાં જીવન પ્રત્યે પ્રેમ હોતો જ નથી (Alternative 1) ં દીવા નથી દરબારમાં; છે અંધારું ધોર! - (Alternative 4) ં જો હોય સંપ કુટુંબમાં, શત્રુથી શું થાય? - (Alternative 3)	
Question No.3 ટાઢે પાણીએ ખસ જવી' કહેવતનો અર્થ દર્શાવો. અાંખ મીંચીને અંધારું કરવું (Alternative 4) વગર મહેનતે મુશ્કેલી ટળવી (Alternative 1) ન બોલવાનું બોલીને સંબંધ બગાડવો (Alternative 3) ઠંડા પાણીએ સ્નાન કરીને શરદી મટાડવી (Alternative 2)	1.00 Bookmark □
Question No.4 નીયેના પૈકી કયું વાક્ય આજ્ઞાર્થ દર્શાવે છે? ા મહેશ ગઈકાલ સુધી શહેરમાં હતો (Alternative 2) ા સૌને મારી યાદ આપજો (Alternative 1) ા મિત્રો, હવે તો યા-કોફ્રી લેશોને? - (Alternative 4) ા કુંભાર માટલા ઘડે છે (Alternative 3)	1.00 Bookmark □
Question No.5 નીચેના પૈકી કયો શબ્દ 'દરિદ્ર'નો વિરુદ્ધાર્થી શબ્દ છે? ારીબ - (Alternative 1) કંગાળ - (Alternative 2) શ્રીમંત - (Alternative 4) આળસુ - (Alternative 3)	1.00 Bookmark □
Question No.6 સારું: નરસું :: શુક્લ: ?	1.00 Bookmark □
Question No.7 નીચેમાંથી કયો વિકલ્પ 'ચર્ચા' શબ્દનો સમાર્નાથી નથી? ા પાલન - (Alternative 4) ા અાયરણ - (Alternative 2) ા વર્તન - (Alternative 1) ા ચરણ - (Alternative 3)	1.00 Bookmark □
Question No.8 ભારવાયક નિપાતનાં નીયે આપેલ ઉદાહરણમાંથી કયું અયોગ્ય છે?	1.00 Bookmark □
Question No.9	1.00 Bookmark □

ારેજ સવારે મંદિરે - (Alternative 2) જઇ હાથ જોડી - (Alternative 3)