

# CII – iPATE 1.0 (2020)

Computer Based PAN India Examination

Category: GRADUATE ENGINEER (ENTRY LEVEL)

Engineering Discipline: PETROLEUM ENGINEERING

Questions & Answers

(Reviewed, Revised & Published dtd. 20.01.2021)

## Paper Structure

Question Nos.	Sections & Topics		Marks
1 to 20	Section I : Cognitive Abilities	<ul style="list-style-type: none"><li>Quantitative Aptitude</li><li>Analytical Reasoning</li><li>Data Interpretation</li><li>English Communication</li></ul>	20
21 to 40	Section II : Professional Abilities	<ul style="list-style-type: none"><li>Project Management</li><li>Health, Safety &amp; Risk Management</li><li>Environmental Laws</li><li>Social Responsibility &amp; Ethics</li><li>Finance &amp; Accounts</li><li>Legal, Contracts &amp; Arbitration</li></ul>	20
41 to 50	Section III (A) : Technical Abilities	Physics & Chemistry (10+2 level)	10
51 to 100	Section III (B) : Technical Abilities	Engineering Discipline	50
<b>TOTAL</b>			<b>100</b>

NOTE:

- Exam Duration: 3 Hours
- Total 100 no. of Questions of 1 Mark each with Negative Marking of ½ Mark for every wrong answer
- Questions (Section wise) and respective Answer Options shuffled at Candidates' terminal

Question No. 1	Neha goes for a walk between 4 am and 5 am. After coming back, she found that the hour hand and the minute hand of her watch had exchanged their positions. How much time(approx.) did she spend on her walk?			
Answer Options	A)	B)	C)	D)
	55 min	55:38 min	55:54 min	55:46 min
Right Answer	B			

Question No. 2	4 red, 6 green and 5 white flowers are in a bag. 3 flowers are taken together. What is the probability of getting 1 white and 2 green flowers?			
Answer Options	A)	B)	C)	D)
	1/5	15/91	3/91	3/11
Right Answer	B			

Question No. 3	Tony, Monu and James completed a work together in 36 days and received a total payment of Rs. 54000. Tony took half of the total money, Monu took one third and James took remaining. In how many days, Tony and James would have finished the work if Monu was not working?			
Answer Options	A)	B)	C)	D)
	72 days	54 days	96 days	64 days
Right Answer	B			

Question No. 4	A shopkeeper purchased 15 kg of variety A rice at Rs. X per kg and 10 kg of variety B rice at Rs. (X + 5) per kg. The shopkeeper sold the whole quantity of variety A rice at 10% profit and that of variety B rice at 20% profit. The total selling price of variety A rice was Rs. 30 more than that of variety B rice. Had the two varieties been mixed and sold at an overall profit of 20%, what would have been the selling price (per kg)?			
Answer Options	A)	B)	C)	D)
	Rs. 26.40	Rs. 23.20	Rs. 24.20	Rs. 25.00
Right Answer	A			

Question No. 5	A club has 256 members of whom 144 can play football, 123 can play tennis, and 132 can play cricket. Moreover, 58 members can play both football and tennis, 25 can play both cricket and tennis, while 63 can play both football and cricket. If every member can play at least one game, then the number of members who can play only tennis is			
Answer Options	A)	B)	C)	D)
	32	43	38	45
Right Answer	B			

Question No. 6	Fill up the following series: 5, 25, 7, _____, 9, 19			
Answer Options	A)	B)	C)	D)
	23	22	25	32
Right Answer	B			

Question No. 7	<p>The question is followed by three statements I, II, and III. Read the question and the statements carefully and choose your answer according to which set of the statement(s) is/are sufficient to answer the question.</p> <p>What is the area of the rectangle?</p> <p>I. The ratio of length to breadth of the rectangle is 35 : 12.            II. The perimeter of the rectangle is 188 cm.            III. The length of diagonal of the rectangle is 74 cm</p>			
Answer Options	A)	B)	C)	D)
	I and II only	I and III only	(I and II) or (II and III)	Any two of the three
Right Answer	D			

Question No. 8	<p>The question below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer:</p> <p>What is the sum of the age of Ram and Mohan?</p> <p>Statement I : The age of Ram is 6 years more than the age of Mohan.            Statement II : 40% of the age of Mohan is equal to 30% of the age of Ram.            Statement III : The ratio between half of the age of Ram and one third of the age of Mohan is 2 : 1.</p>			
Answer Options	A)	B)	C)	D)
	Either statement III alone or statements I and II together are sufficient.	Only statement III is sufficient	Only statement I and II are sufficient	Only statement I, II, and III are sufficient
Right Answer	C			

Question No. 9	<p>Mohan is the Son of Arun's Father's sister. Prakash is the son of Reva, who is the mother of Vikas and Grandmother of Arun. Pranab is the father of Neela and the grandfather of Mohan. Reva is the wife of Pranab. How is the wife of Vikas related to the neela?</p>			
Answer Options	A)	B)	C)	D)
	Sister	Sister - In - Law	Niece	None of The Above
Right Answer	B			

Question No. 10	<p>In the following question, there is a certain relationship between two given words on one side of:: and one word is given on another side of:: while another word is to be found from the given alternatives having the same relationship with this word as the words of the given pair bear. Choose the correct alternative.</p> <p>_____ : trail :: grain : grail</p>			
Answer Options	A)	B)	C)	D)
	train	path	wheat	holy
Right Answer	A			

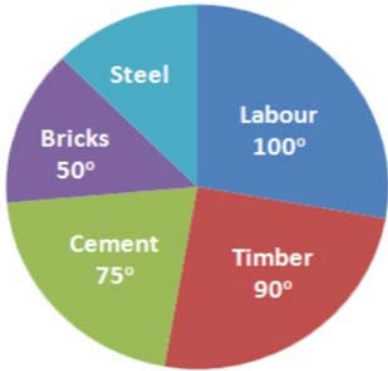
Question No. 11	<b>Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.</b>			
	A: Only natural dyes are used in Kalamkari and it involves several steps. B: There are two distinctive styles of Kalamkari in India. C: They are the Sri kalahasti style and the Machlipatnam style. D: Kalamkari is a type of hand-painted or block-printed cotton textile, produced in the Indian States of Andhra Pradesh and Telangana.			
Answer Options	A) CBDA	B) DABC	C) ACBD	D) DCBA
Right Answer	B			

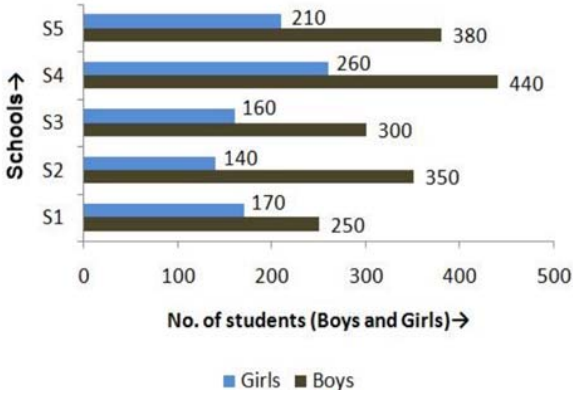
Question No. 12	What is the antonym of MOROSE			
Answer Options	A) overawed	B) agitated	C) cherubic	D) cheerful
Right Answer	D			

Question No. 13	What is the synonym of ERRONEOUS			
Answer Options	A) Enormous	B) Wrong	C) Erased	D) Weak
Right Answer	B			

Question No. 14	A frustrated old man, Bandi thakur was never tired of (1) _____ the exploits of his ancestors, with a little (2) _____ he would lapse into a reminiscent mood, push back the loosely tied turban from his close-cropped grizzled hair and start a familiar story, improvising (3) _____ details which, to the mirth of his audience, always kept changing with every recounting.			
Answer Options	A) (1) criticizing, (2) prompting, (3) sincere	B) (1) extolling, (2) advising, (3) rational	C) (1) invoking, (2) arguing, (3) fanciful	D) (1) extolling, (2) prompting, (3) fanciful
Right Answer	D			

Question No. 15	Even my goalies and the policemen, who have arrested me or (1) _____ me as a prisoner from place to place have been kind to me, and much of the (2) _____ of conflict and the sting of goal-life has been (3) _____ because of this human touch.			
Answer Options	A) (1) safeguarded, (2) kindness, (3) egged on	B) (1) escorted, (2) affinity, (3) toned down	C) (1) abandoned, (2) bitterness, (3) pumped up	D) (1) escorted, (2) bitterness, (3) toned down
Right Answer	D			

<p>Question No. 16</p>	<p>The pie chart shows the total expense of Rs 450000 to construct a house.</p> <p>The cost of steel is</p> 			
<p>Answer Options</p>	<p>A) Rs 55000</p>	<p>B) Rs 56250</p>	<p>C) Rs 60000</p>	<p>D) Rs 62500</p>
<p>Right Answer</p>	<p>B</p>			

<p>Question No. 17</p>	<p>The following bar graph shows the number of boys and girls of class X of 5 different schools.</p> <p>Find the difference between the number of boys and girls of schools S2 and S3 together</p> 			
<p>Answer Options</p>	<p>A) 300</p>	<p>B) 350</p>	<p>C) 400</p>	<p>D) 450</p>
<p>Right Answer</p>	<p>B</p>			

Question No. 18	<p>Study the tables carefully and answer the question that follow: Number of candidates (in lakhs) appearing in an entrance examination from six different states and the ratio of male candidates and female candidates in the same</p> <p>The number of male candidates from Andhra Pradesh and Haryana together is what percent of the total number of female candidates from Bihar?</p> <table border="1"> <thead> <tr> <th rowspan="2">State</th> <th rowspan="2">Number of candidates</th> <th colspan="2">Ratio</th> </tr> <tr> <th>Male</th> <th>Female</th> </tr> </thead> <tbody> <tr> <td>Andhra Pradesh</td> <td>1.85</td> <td>3</td> <td>2</td> </tr> <tr> <td>Assam</td> <td>2.73</td> <td>7</td> <td>5</td> </tr> <tr> <td>Telangana</td> <td>1.25</td> <td>7</td> <td>3</td> </tr> <tr> <td>Odisha</td> <td>3.14</td> <td>5</td> <td>3</td> </tr> <tr> <td>Haryana</td> <td>1.08</td> <td>4</td> <td>5</td> </tr> <tr> <td>Bihar</td> <td>2.27</td> <td>1</td> <td>3</td> </tr> </tbody> </table>				State	Number of candidates	Ratio		Male	Female	Andhra Pradesh	1.85	3	2	Assam	2.73	7	5	Telangana	1.25	7	3	Odisha	3.14	5	3	Haryana	1.08	4	5	Bihar	2.27	1	3
State	Number of candidates	Ratio																																
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Odisha	3.14	5	3																															
Haryana	1.08	4	5																															
Bihar	2.27	1	3																															
Answer Options	A) 98.41%	B) 48.45%	C) 95.49%	D) 93.39%																														
Right Answer	D																																	
NOTE	Question was displayed incorrectly at candidates' terminals. Hence '1' mark has been given to all candidates, who attempted or not.																																	

Question No. 19	<p>Read the following information carefully and answer the given question.</p> <p>i. Rajesh, Raju and Pijush are intelligent.  ii. Rajesh, Shib and Hari are hard-working.  iii. Shib, Pijush and Hari are honest.  iv. Rajesh, Raju and Hari are ambitious.</p> <p>Which of the following person is neither honest nor hard-working but is ambitious?</p>			
Answer Options	A) Shib	B) Pijush	C) Raju	D) Hari
Right Answer	C			


Question No. 20	<p>Read the following information carefully and answer the following question.</p> <p>'A + B' means 'A is the father of B'; 'A - B' means 'A is the wife of B'; 'A x B' means 'A is the brother of B'; 'A ÷ B' means 'A is the daughter of B'.</p> <p>If <math>P \div R + S + Q</math>, which of the following is true?</p>			
Answer Options	A) P is the daughter of Q	B) Q is the aunt of P	C) P is the aunt of Q	D) P is the mother of Q
Right Answer	C			

Question No. 21	A management point in a Work Breakdown Structure (WBS) used to consolidate and process work package data and forward the result to the project management is called _____			
Answer Options	A)	B)	C)	D)
	Control account	Chart of the account	Control limit	Account limit
Right Answer	A			
NOTE	Question was displayed incorrectly at candidates' terminals. Hence '1' mark has been given to all candidates, who attempted or not.			

Question No. 22	Various activities of a project are shown on a Bar Chart by _____			
Answer Options	A)	B)	C)	D)
	Vertical line	Horizontal line	Dots	Crosses
Right Answer	B			

Question No. 23	The difference between the time avail to do a job and time required to do the job is known as _____			
Answer Options	A)	B)	C)	D)
	Event	Float	Duration	Constraints
Right Answer	B			

Question No. 24	Gantt Chart is commonly used for _____			
Answer Options	A)	B)	C)	D)
	Routing	Scheduling	Follow up	Inspection and quality control
Right Answer	B			

Question No. 25	The following symbol is used when something in your workplace is 			
Answer Options	A)	B)	C)	D)
	Chemical Weapon	Biohazard	Toxic Substance	Radiation Danger
Right Answer	B			

Question No. 26	What is the leading cause of death on construction sites?			
Answer Options	A)	B)	C)	D)
	Struck by object	Falls	Caught-in or -between	Electrocutions Hazardous Materials

Right Answer	B			
Question No. 27	What violations are most commonly cited by OSHA?			
Answer Options	A)	B)	C)	D)
	Hazard communications	Scaffolding	Fall protection	Respiratory protection
Right Answer	C			

Question No. 28	_____ is best suited to extinguishing oil or flammable liquid fire			
Answer Options	A)	B)	C)	D)
	Soda acid	Vaporizing liquid	Foam	Dry chemical
Right Answer	C			

Question No. 29	Out of the 37 countries, which country still not ratified the second commitment known as the Doha amendment to the Kyoto Protocol?			
Answer Options	A)	B)	C)	D)
	USA	Canada	Norway	Ukraine
Right Answer	A			

Question No. 30	The Ministry also serves as the nodal agency in the country for the which of these organisations?			
Answer Options	A)	B)	C)	D)
	United Nations Environment Programme (UNEP)	South Asia Co-operative Environment Programme (SACEP)	International Centre for Integrated Mountain Development (ICIMOD)	All of the above
Right Answer	D			

Question No. 31	There are many benefits to implementing an EMS. These include a potential for			
Answer Options	A)	B)	C)	D)
	Reduction in waste production	The avoidance in use, and costly disposal of, other hazardous or potentially polluting materials	A planned approach to compliance with regulations and the consequential reduced risk of prosecutions and fines.	All of the above
Right Answer	D			



Question No. 32	Which of the following does not contribute to the development of a manager's standard of ethics?			
Answer Options	A)	B)	C)	D)
	competitor behaviours	society's norms and values	individual life experiences	environmental situations
Right Answer	A			

Question No. 33	Which is the approach to corporate planning?			
Answer Options	A)	B)	C)	D)
	Customers and workers satisfaction	Planning skills	Optimising	All of the above
Right Answer	D			

Question No. 34	Which one of the following is not principle business ethics?			
Answer Options	A)	B)	C)	D)
	Principle of universality	Principle of humanity	Principle of autonomy	Principle of dissatisfaction
Right Answer	D			

Question No. 35	Which of the following is a definition for variable costs?			
Answer Options	A)	B)	C)	D)
	Costs that remain the same whatever the level of output	Costs that contain a fixed and variable element	Costs that vary directly with the number of units produced	Costs that will remain fixed as output increases until the activity reaches a level where the costs have to increase sharply
Right Answer	C			

Question No. 36	Which of the following is a definition of break-even point?			
Answer Options	A)	B)	C)	D)
	The difference between the selling price of a product and the variable costs incurred in producing that product	The fixed plus variable costs of the business	The situation where neither a profit nor a loss is made	The situation where a profit is made
Right Answer	C			

Question No. 37	Which of the following is not a benefit of budgeting?			
Answer Options	A)	B)	C)	D)
	It promotes study, research, and a focus on the future	It is a source of motivation	It will prevent net losses from occurring	It is a mean of coordinating business activities
Right Answer	C			

Question No. 38	What is the obligation of the peaceful settlement of dispute?			
Answer Options	A)	B)	C)	D)
	It is an obligation of result i.e. States are under a strict obligation to resolve the disputes at the earliest	It is an obligation of conduct i.e. States have an obligation to try to resolve the disputes via peaceful mean. That does not entail an obligation to resolve the dispute	It is an intention to act immediately as per norms of International Law and all States have a legal interest to safeguard its application in any dispute	It is an obligation which concerns solely International courts and tribunal.
Right Answer	B			

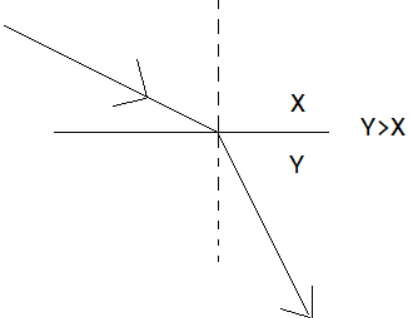
Question No. 39	What is the primary function of the Law of Tort?			
Answer Options	A)	B)	C)	D)
	Punishment of a wrong motivator	Clarification of the human rights of the parties	Compensating the claimant	Spreading of losses throughout the parties
Right Answer	C			

Question No. 40	FIDIC published a completely new suite of contracts in various coloured books which contain different conditions. What condition is mentioned in Red Book?			
Answer Options	A)	B)	C)	D)
	Conditions of contract for Construction project.	Conditions of contract for EPC/ Turnkey project.	Conditions of contract for Plant & Design.	Conditions of contract for DBO (Design, Build & Operate) project.
Right Answer	A			
NOTE	Question was displayed incorrectly at candidates' terminals. Hence '1' mark has been given to all candidates, who attempted or not.			

Question No. 41	The center of mass of the system consisting of Earth, the Sun, and the planet Mars is:			
Answer Options	A)	B)	C)	D)
	Closer to Earth than to either of the other bodies	Closer to the Sun than to either of the other bodies	Closer to Mars than to either of the other bodies	At the geometric center of the triangle formed by the three bodies
Right Answer	B			

Question No. 42	At the same instant that a 0.50-kg ball is dropped from 25m above Earth, a second ball, with a mass of 0.25 kg, is thrown straight upward from Earth's surface with an initial speed of 15m/s. They move along nearby lines and pass without colliding. At the end of 2 sec the magnitude of the acceleration of the center of mass of the two-ball system is:			
Answer Options	A)	B)	C)	D)
	0.25g	0.50g	0.75g	g
Right Answer	D			

Question No. 43	The rainbow seen after a rain shower is caused by:			
Answer Options	A)	B)	C)	D)
	diffraction	interference	refraction	polarization
Right Answer	C			

Question No. 44	When light travels from medium X to medium Y as shown: 			
Answer Options	A)	B)	C)	D)
	both the speed and the frequency decrease	both the speed and the frequency increase	both the speed and the wavelength decrease	both the speed and the wavelength increase
Right Answer	C			
NOTE	Question was displayed incorrectly at candidates' terminals. Hence '1' mark has been given to all candidates, who attempted or not.			

Question No. 45	An object rests on a horizontal frictionless surface. A horizontal force of magnitude F is applied. This force produces an acceleration:			
Answer Options	A)	B)	C)	D)
	only if F is larger than the weight of the object	only while the object suddenly changes from rest to motion	always	only if the inertia of the object decreases
Right Answer	C			

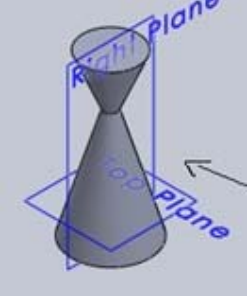

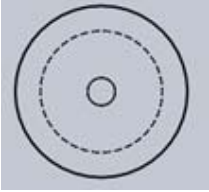
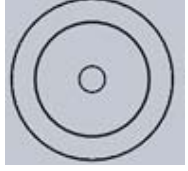
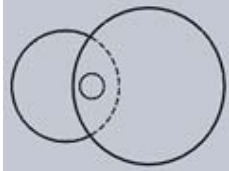
Question No. 46	Which statement is incorrect?			
Answer Options	A)	B)	C)	D)
	All the metals are good conductor of electricity.	All the metals are good conductor of heat	All the metals form positive ions	All the metals form acidic oxides
Right Answer	D			

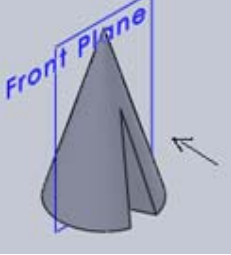
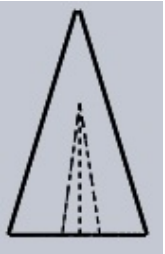
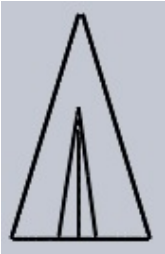
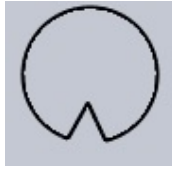
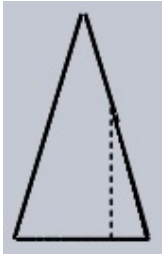
Question No. 47	Based on the first law of thermodynamics, which one of the following is correct?			
Answer Options	A)	B)	C)	D)
	For an isothermal process, $q = +w$	For an isochoric process, $\Delta U = -q$	For an adiabatic process, $\Delta U = -w$	For a cyclic process, $q = -w$
Right Answer	D			

Question No. 48	Among the electrolytes $\text{Na}_2\text{SO}_4$ , $\text{CaCl}_2$ , $\text{Al}_2(\text{SO}_4)_3$ and $\text{NH}_4\text{Cl}$ , the most effective coagulating agent for $\text{Sb}_2\text{S}_3$ sol is			
Answer Options	A)	B)	C)	D)
	$\text{Na}_2\text{SO}_4$	$\text{CaCl}_2$	$\text{Al}_2(\text{SO}_4)_3$	$\text{NH}_4\text{Cl}$
Right Answer	C			

Question No. 49	Of the following which one is classified as polyester polymer?			
Answer Options	A)	B)	C)	D)
	Nylon-66	Terylene	Backelite	Melamine
Right Answer	B			

Question No. 50	In order to increase the volume of a gas by 10%, the pressure of the gas should be			
Answer Options	A)	B)	C)	D)
	increased by 10%	increased by 1%	decreased by 10%	decreased by 1%
Right Answer	C			

<p>Question No. 51</p>	<p>Identify the top view for the below-given cone.</p> 			
<p>Answer Options</p>	<p>A)</p> 	<p>B)</p> 	<p>C)</p> 	<p>D)</p> 
<p>Right Answer</p>	<p>C</p>			

<p>Question No. 52</p>	<p>Identify the front view of the following cone.</p> 			
<p>Answer Options</p>	<p>A)</p> 	<p>B)</p> 	<p>C)</p> 	<p>D)</p> 
<p>Right Answer</p>	<p>B</p>			

Question No. 53	Curve of any shape can be drawn in perspective by enclosing it in a _____			
Answer Options	A)	B)	C)	D)
	rectangle	cube	cylinder	square
Right Answer	A			

Question No. 54	A prism and cone got intersected at 90 degrees the line of intersection will be _____ and parallel to axis of _____			
Answer Options	A)	B)	C)	D)
	straight line, prism	curve, prism	straight line, cone	curve, cone
Right Answer	B			

Question No. 55	The plane surfaces intersect in a _____ the line of intersection between two curved surfaces is _____ and between a plane surface and curved surfaces is a _____			
Answer Options	A)	B)	C)	D)
	straight line, curve, curve	straight line, straight line, curve	straight line, curve, straight line	curve, curve, curve
Right Answer	A			

Question No. 56	Petroleum industry comprises mainly of 2 parts: Upstream operation and Downstream operation. In which part Crude oil production falls under?			
Answer Options	A)	B)	C)	D)
	Upstream operation	Downstream operation	Both upstream and downstream	None, as it is a mid-stream operation
Right Answer	A			

Question No. 57	Mark the correct option: Which Oil & Gas company in India does petroleum exploration for long time after India's independence?			
Answer Options	A)	B)	C)	D)
	RIL	IOC	HPCL	ONGC
Right Answer	D			

Question No. 58	Four different types of hydrocarbon molecules appear in crude oil. The relative percentage of each are:			
Answer Options	A)	B)	C)	D)
	Paraffins: approx 30% ; Naphthenes : approx 49% ; Aromatics : 15% ; Asphaltics: 6% ;	Paraffins: approx 49% ; Naphthenes : approx 30% ; Aromatics : 15% ; Asphaltics: 6%	Paraffins: approx 30% ; Naphthenes : approx 15% ; Aromatics : 49% ; Asphaltics: 6% ;	Paraffins: approx 49%; Naphthenes : approx 30%; Aromatics : 6%; Asphaltics: 15%;
	Right Answer	A		

Question No. 59	What type of formations are oil and gas usually found in, particularly in the Middle East?			
Answer Options	A)	B)	C)	D)
	granite	basalt	sand	sulfur
Right Answer	C			

Question No. 60	What is a well drilled in an area without previous oil or gas production known as?			
Answer Options	A)	B)	C)	D)
	Offset Well	Tomcat	Wildcat	Newbie
Right Answer	C			

Question No. 61	What is the first thing a new operator should do before operating a drill rig?			
Answer Options	A)	B)	C)	D)
	Talk to the supervisor about the rig	Tell the oiler they are ready to drill	Call the last operator	Review the operators manual
Right Answer	D			

Question No. 62	What is the term commonly used to refer to the act of deviating a well bore to head in the direction desired?			
Answer Options	A)	B)	C)	D)
	directional drilling	advanced angle drilling	miracle drilling	deviated septum drilling
Right Answer	A			

Question No. 63	What is the nickname given to the workers who work on a drilling rig drill floor?			
Answer Options	A)	B)	C)	D)
	Chippies	Roughnecks	Bean counters	Sparkies
Right Answer	B			

Question No. 64	What should drill site workers avoid to protect themselves from being pinned between equipment or other objects?			
Answer Options	A)	B)	C)	D)
	Placing themselves between moving equipment and an immovable structure.	Placing themselves far from the moving equipment and standing near the immovable structure.	Using a trench box or shield in work area.	Painting swing radius lines on the ground with spray paint.
Right Answer	A			

Question No. 65	Movements of fluids in porous media (inside reservoir) are govern by three forces:			
Answer Options	A)	B)	C)	D)
	viscous, hydraulic and gravitational.	viscous, capillary and gravitational.	viscous, capillary and hydraulic	hydraulic, capillary and gravitational.
Right Answer	B			

Question No. 66	Injection of pressurized gas or water into Reservoir to increase the production or enhance the recovery is of which type:			
Answer Options	A)	B)	C)	D)
	Primary recovery process	Secondary recovery process	Tertiary recovery process	None of the option
Right Answer	B			

Question No. 67	Compositional modelling to predict recovery is generally not applicable for:			
Answer Options	A)	B)	C)	D)
	Gas condensate recovery estimation	Volatile oil recovery estimation	Carbon dioxide flooding effectiveness	polymer flood oil recovery
Right Answer	D			

Question No. 68	In order to find the parting pressure of a formation, a injectivity test is done with increasing flow rates. This test is called a:			
Answer Options	A)	B)	C)	D)
	Pulse test	Build up test	Step rate test	None
Right Answer	C			

Question No. 69	The assumption not used in the derivation of the radial flow form of the diffusivity equation is:			
Answer Options	A)	B)	C)	D)
	Flow into the wellbore continues after well is shut in	Homogeneous and isotropic medium	A fluid with small and constant compressibility	Uniform thickness across the reservoir
Right Answer	A			

Question No. 70	Through which process the water content in natural gas is removed?			
Answer Options	A)	B)	C)	D)
	Electric Heater to remove water	Dissolving water vapour using chemical	Gas Dehydration using Glycol	By addition of Mono Ethylene Glycol into the gas
Right Answer	C			



Question No. 71	What is Sour gas?			
Answer Options	A)	B)	C)	D)
	Chlorine gas	Natural gas having sour taste	Natural gas having a lot of Carbon Di Oxide and oxides of Nitrogen	Natural gas with Hydrogen Sulfide
Right Answer	D			

Question No. 72	What is the function of Oil Field Heater Treater?			
Answer Options	A)	B)	C)	D)
	Heating & treating crude oil to get all the components of crude oil like Gasoline, Kerosene, Diesel etc	Heating & treating crude oil to remove all the heavies	Heating & treating crude oil to separate water	Heating & treating crude oil to separate all lighter gases
Right Answer	C			

Question No. 73	If the API gravity of a one sample of crude oil is 50, what is the specific gravity of the liquid?			
Answer Options	A)	B)	C)	D)
	0.7796	1.283	0.6867	1.456
Right Answer	A			

Question No. 74	If API gravity of hydrocarbon liquid increases, then which option about specic gravity is correct ?			
Answer Options	A)	B)	C)	D)
	Specific gravity increases	Specific gravity decreases	Specific gravity does not depend on the API gravity but it depends on temperature of the liquid hydrocarbon	None of A, B, C is correct
Right Answer	B			

Question No. 75	Which type the drilling rig "Barge" is?			
Answer Options	A)	B)	C)	D)
	Conventional land rig	Floating offshore rig	Conventional mobile rig	Bottom supported Offshore rig
Right Answer	D			

Question No. 76	1 standard barrel (bbl) is equal to how many US gallons?			
Answer Options	A)	B)	C)	D)
	19	42	55	26
Right Answer	B			

Question No. 77	In offshore drilling, at what water depth Semi-submersible drilling rigs are used?			
Answer Options	A)	B)	C)	D)
	20,000 ft	1,200 ft	12,000 ft	32,000 ft
Right Answer	C			

Question No. 78	Which of these terms describes the situation when the pressure of an oil or gas well overcomes the hydrostatic pressure exerted on it by the drilling fluid while drilling?			
Answer Options	A)	B)	C)	D)
	a kick	an outflow	a spew out	a wash out
Right Answer	A			

Question No. 79	What is the name given to the tall, main structure of a drilling rig?			
Answer Options	A)	B)	C)	D)
	the bridge	the stand pipe	the Jacob's ladder	the derrick
Right Answer	D			

Question No. 80	FPSO project is better than Offshore Platform for the reason (s)			
Answer Options	A)	B)	C)	D)
	Abandonment costs are less than for fixed platforms	FPSOs can evade harsh weather	FPSOs can move from field to field	All the options
Right Answer	D			

Question No. 81	Carbon di-oxide flooding is under which category of EOR?			
Answer Options	A)	B)	C)	D)
	Chemical	Thermal	Miscible	None of the option
Right Answer	C			

Question No. 82	What is another name for a well log?			
Answer Options	A)	B)	C)	D)
	Drilling log	Formation log	Borehole log	Depth log
Right Answer	C			

Question No. 83	Which of the following rock favours petroleum formation?			
Answer Options	A)	B)	C)	D)
	Sedimentary rock	Igneous rock	Metamorphic rock	None of the above
Right Answer	A			

Question No. 84	An oil lease is currently producing at a rate of 450 STB/D. The rate has been declining at a constant percentage of 30% per year (loss ratio = 0.3). If the economic limit on production is 60 STB/D, the remaining productive life (months) for the lease would be most nearly:			
Answer Options	A)	B)	C)	D)
	5.6	29	83	68
Right Answer	D			

Question No. 85	Which of the following well logs help you see whether the water in the well is fresh or salty?			
Answer Options	A)	B)	C)	D)
	Electrical resistivity well log	Spontaneous potential well log	Gamma ray well log	Acoustic well log
Right Answer	A			

Question No. 86	Name two common problems of gas well testing?			
Answer Options	A)	B)	C)	D)
	Hydrate problem, Probability of explosion	High pressure issue, Probability of explosion	Hydrate problem, Erosion	High pressure issue, Erosion
Right Answer	C			

Question No. 87	What is the full form of RFT?			
Answer Options	A)	B)	C)	D)
	Reservoir Formation Testing	Repeat Formation Test	Repeat FlowTest	Reservoir FlowTesting
Right Answer	B			

Question No. 88	Which one is the production testing equipment?			
Answer Options	A)	B)	C)	D)
	Test separator	Production separator	Portable tool to measure the flow	None
Right Answer	A			

Question No. 89	What is the purpose of deliverability testing in reference to the testing of a gas well?			
Answer Options	A)	B)	C)	D)
	to measure its production capabilities during high production demand	to measure its production capabilities under specific temperature & pressure of the reservoir	to measure its production capabilities under specific conditions of reservoir, especially during winter season	to measure its production capabilities under specific conditions of reservoir and bottom-hole flowing pressures
Right Answer	D			

Question No. 90	One typical gas flow measurement unit is written as MMSCF/D. What is the full form of this unit?			
Answer Options	A)	B)	C)	D)
	Multi Million standard cumulative flow per day	Million standard cubic feet per day	Million standard cumulative flow per day	Multi Million standard cubic feet per day
Right Answer	B			

Question No. 91	What do you mean by an accident?			
Answer Options	A)	B)	C)	D)
	Accident is an unexpected event that may result in property damage but does not result in an injury or illness to an employee.	Accident is an unexpected event that may result in property damage and does result in an injury or illness to an employee.	Accidents are both expected & unexpected events that may result in property damage and injury or illness to an employee.	Accident is an unexpected event that may result in property damage, but does not result in an injury or illness.
Right Answer	B			

Question No. 92	A repairing / maintenance workman climbed a street light post to change a faulty light, but he didn't use any PPE during climbing and working at height. You are the area councillor and you have reached the spot. Changing light is required as the spot becomes dark during night-time without the light. Which option of activity you will insist now?			
Answer Options	A)	B)	C)	D)
	Change the light / rectify the fault as the repairing man has already climbed the post	Don't allow the job without PPE	Allow this job to complete, but warn him to use appropriate PPE next time	Climb down, use appropriate PPE and then climb up & finish the job
Right Answer	D			

Question No. 93	Which of the activities are unsafe acts?			
Answer Options	A)	B)	C)	D)
	Working on any equipment without proper authority	Working on moving equipment	Wearing loose clothes while working on running machine	All the options mentioned earlier
Right Answer	D			

Question No. 94	Lack of guarding on machinery is an			
Answer Options	A)	B)	C)	D)
	Unsafe act	Unsafe condition	Both	None
Right Answer	B			

Question No. 95	What is/are the basic cause (s) of an accident			
Answer Options	A)	B)	C)	D)
	Lack of knowledge	Lack of skill	Complacency	All the options mentioned earlier
Right Answer	D			

Question No. 96	What is the difference between incident and accident?			
Answer Options	A)	B)	C)	D)
	Incident does not result in an injury or illness, but accident does.	Incident does not result any property damage.	Incident is planned but accident is unplanned	Incident is narrowly avoided accident
Right Answer	A			

Question No. 97	What is the primary & worst Greenhouse gas in our atmosphere?			
Answer Options	A)	B)	C)	D)
	Methane	Ozone	Carbon Di Oxide	Nitrous Oxide
Right Answer	C			

Question No. 98	Why is the Kyoto Protocol important? Opt the best answer			
Answer Options	A)	B)	C)	D)
	for reductions of all types of industrial effluents	for reductions of Carbon Dioxide emission into atmosphere	for reductions of emission of Sulphur Dioxide into atmosphere	for reductions in greenhouse-gas emissions
Right Answer	D			

Question No. 99	The goal of Petroleum Engineer:			
Answer Options	A)	B)	C)	D)
	To maximise hydrocarbon recovery at any cost	To maximise hydrocarbon recovery at minimum cost but environmental issues can't be solved as production cost has to be kept minimum	To optimise (maximise) hydrocarbon recovery at minimum cost and with lesser environmental problems	Maximum production even with more cost and more environmental issues
Right Answer	C			

Question No. 100	The engineers, who work to optimize production of oil and gas via proper well placement, production levels and enhanced oil recovery techniques, are called/designated as			
Answer Options	A)	B)	C)	D)
	Production Engineer	Drilling Engineer	Subsurface Engineer	Reservoir Engineer
Right Answer	D			