Seat No:	Enrollment No:
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PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE

B.Sc., Summer 2017-18 Examination

Semester: 2 Date: 18/05/2018

Subject Code: 11193151 Time: 10:30am to 1:00pm

Subject Name: Communication Skills-II Total Marks: 60

Instructions:

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

Q.1 Do as directed.

A) Answer one word for the description given (Any 14 out of 16)

(07)

- 1. Examination of living tissue
- 2. Dissection and examination of a corpse to determine the cause of death
- 3. Science of the heavens
- 4. Science of the development of mankind
- 5. Branch of Physics dealing with the composition of celestial bodies
- 6. Pertaining to the Science of group cultures, conventions, etc...
- 7. Pertaining to the Science of Linguistics
- 8. Study of insects
- 9. One who physically travels in space
- 10. Part that represents the whole
- 11. Student of the meaning and psychology of the words
- 12. Student of plant life
- 13. Lover and collector of books
- 14. A Russian space scientist.
- 15. Self isolated from contact with people
- 16. Pertaining to charitable activities
- **B)** Select correct answers from the bracket given and complete the Cloze Test for 1 to 16. (13) (then processed, through, Nano-filtration, dissolved, driving, with, reduce, one side, planning stages, reverse osmosis, large, improve, and, Currently, in which, the other side)

Water desalination processes separate 1 salts and other minerals from water. Feedwater
sources may include brackish, seawater, wells, surface, wastewater, and industrial feed and process
waters. Membrane separation requires 2 forces including pressure, electric potential, and
concentration to overcome natural osmotic pressures and effectively force water through membrane
processes. As such, the technology is energy intensive and research is continually evolving to 3.
efficiency and 4 energy consumption.
Seawater desalination has the potential to reliably produce enough potable water to support 5.
populations located near the coast. Numerous membrane filtration seawater desalination
plants are currently under construction or in the 6 up and down California's parched coast,
with the 50 million gallons per day (mgd) Carlsbad Desalination plant scheduled to be operational
by 2016.
7 and 8 are the leading pressure driven membrane processes. Membrane
configurations include spiral wound, hollow fiber, and sheet with spiral being the most widely used.
Contemporary membranes are primarily polymeric materials 9 cellulose acetate still used to
a much lesser degree. Operating pressures for RO and NF are in the range of 50 to 1,000 psig (3.4 to
68 bar, 345 to 6896 kPa).
Electrodialysis (ED) and Electrodialysis Reversal (EDR) processes are driven by direct current
(DC) in which ions (as opposed to water in pressure driven processes) flow 10 ion selective

membranes to electrodes of opposite charge. In EDR systems, the polarity of the electrodes is

reversed periodically. Ion-transfer (perm-selective) anion ions in the feed water. These systems are used primaril (TDS).			-	
Forward osmosis (FO) is a relatively new commer concentration gradient (osmotic pressure) is the driving feed (such as seawater) is on 13 of the semi p pressure "draw" solution is on 14 Without apply the feed solution will naturally migrate through the mesolution is 15 to separate the product from the red Membrane Distillation (MD) is a water desalination commercial use.	force through force forc	ugh a synthemembrane and atternal pressurthe draw so solution.	tic membrane. The d a higher osmotic are, the water from lution. The diluted	
17 to 26: Select appropriate answer to make the sente	nce correct	in terms of	use of degree.	
17. He is than his neighbors.	(a) rich	(b) richer (c) richest	
18. He is too to be taught. (a) intelligent (b) more	e intelligen	t (c) most	intelligent	
19. He is than I thought to be.	(a) clever	(b) cleverer	r (c) cleverest	
20. He is much now.	(a) good	(b) better	(c) best	
21. The offer was too to be true.	(a) good	(b) better	(c) best	
22. He fishes with success than I do.	(a) great	(b) greater	(c) greatest	
23. Shakespeare is the playwright in English.	(a) great	(b) greater	(c) greatest	
24. The pain was than he could bear.	(a) much	(b) more	(c) most	
25. The thing of all was that his son was rude to him	. (a) bad	(b) worse	(c) worst	
26. Jane was the player of the two.	(a) good	(b) better	(c) best	
Answer in Detail in around 150 words. (Any two out of	three)			(12)
1. Applied sciences a better choice than Engineering.				
2. We are losing real sense of socializing because of virtu	ıal socializii	ng. Suggest s	olutions to fight	
with this contemporary problem.				
3. Write a review on a book of your choice.				

Q.3 Do as directed.

Q.2

A) Reading comprehensions.

(05)

Petroleum products such as gasoline, kerosene, home heating oil, residual fuel oil, and lubricating oils come from one source – crude oil found below the earth's surface, as well as under large bodies of water, from a few hundred feet below the surface to as deep as 25,000 feet into the earth's interior. Sometimes crude oil is secured by drilling a hole into the earth, but more dry holes are drilled than those producing oil. Either pressure at the source or pumping forces crude oil to the surface.

Crude oil wells flow at varying rates, from about ten to thousands of barrels per hour. Petroleum products are always measured in forty-two-gallon barrels. Petroleum products vary greatly in physical appearance: thin, thick, transparent, or opaque, but regardless, their chemical composition is made up of only two elements: carbon and hydrogen, which from compounds called hydrocarbons. Other chemical elements found in union with the hydrocarbons are few and are classified as impurities. Trace elements are also found, but in such minute quantities that they are disregarded. The combination of carbon and hydrogen forms many thousands of compounds which are possible because of the various positions and unions of these two atoms in the hydrocarbon molecule.

The various petroleum products are refined by heating crude oil and then condensing the vapors. These products are the so called light oils, such as gasoline, kerosene and distillate oil. The residue remaining after the light oils are distilled is known as heavy or residual fuel oil and is used mostly for burning under boilers. Additional complicated refining processes rearrange the chemical structure of the hydrocarbons to produce other products, some of which are used to upgrade and increase the octane rating of various types of gasoline.

Questions

- 1. How is crude oil brought to the surface?
- 2. What are the principal components of all petroleum products?
- 3. What is heavy oil?
- 4. All of the following are listed as light oils EXCEPT a. distillate oil b. gasoline c. lubricating oil d. kerosene
- 5. The word 'upgrade' in the last but one line is closest in meaning to a improve b counteract c charge d unite
- **B)** Applying your creative sense of visual representation and knowledge comprehension skills make notes of the passage given in Q.3 A. You may use enumeration, bulleting, table, process chart, diagram, figure to convert provided paragraph in the form of notes.
- C) Write a Précis of a passage given in Q.1. (B) Cloze Test (05)
- Q.4 A) Describe given picture in around 150 words. (any one)



1.



B) Answer the following questions. (Any two out of three)

- 1. Describe the characteristics of note making.
- 2. Group Discussion helps to identify team roles and leadership skills
- 3. How does book review writing help in enhancing communication skills?

Page 3 of 3

(09)

(05)