

Sample Questions for WRET of School of Oceanographic Studies, JU
(The options in bold font are the correct answers)

Research Methodology

1. The type of research that involves the manipulation of one or more variables to determine the effect on another variable:

a) Exploratory Research	b) Case study
c) Experimental Research	d) Ex post facto

2. Insert the missing term: 4, 9, 20, 43, ?, 185

a) 90	b) 89
c) 91	d) 95

3. What angle will the two hands of a clock make at 6:20 am?

a) 75 °	b) 60 °
c) 70 °	d) 45 °

4. In the field of academia, the practice of taking someone else's work or ideas and passing them off as one's own is technically known as:

a) Conflict of Interest	b) Piracy
c) Appropriation	d) Plagiarism

5. 1. A disease which spreads by contact:

a) Incurable	b) Infectious
c) Contagious	d) Fatal

Basic Oceanography

1. The global average depth of the oceans is:

a) 4000 m	b) 3700 m
c) 2500 m	d) 5000 m

2. Of the total water available in Earth, freshwater comprises:

a) 1%	b) 5%
c) 3%	d) 10%

3. Countries having coastline have a fixed area earmarked exclusively for exploration and exploitation and it is known as:

a) Territorial water	b) Inland water
c) Exploration Zone	d) Exclusive Economic Zone

4. The age of earth is estimated to be:

a) 4.5 billion years	b) 4 billion years
c) 10 million years	d) 2 trillion years

5. The average thickness of earth's crust beneath the continents is:

a) 3 km	b) 10 km
c) 30 km	d) 50 km

Coastal Aquaculture

1. An area where freshwater and saltwater meet is known as:

a) Freshwater	b) Brackish Water
c) Saltwater	d) Ocean

2. The Challenger Trench is the deepest trench in the Western Pacific. How deep is it?

a) 8,848 m	b) 3,501 m
c) 15,048 m	d) 11,020 m

3. Pen culture refers to the culture:

a) At the enclosure with bottom and sides of netting or bamboo	b) At a fixed enclosure in which the bottom is the bed of the water body
c) At the flow through system	d) At the open ocean system

4. Feed Conversion Ratio is calculated as:

a) Animal weight gain/ Feed given	b) Feed given/ Excess feed
c) Feed given / Animal weight gain	d) Feed given/ Consumption by animals

5. Bacterial haemorrhagic septicaemia is caused by:

a) <i>Flavobacterium columnare</i>	b) <i>Vibrio harveyi</i>
c) <i>Streptococcus iniae</i>	d) <i>Aeromonas hydrophila</i>

Geography

1. Knick points are associated with:

a) Glacial Erosion	b) Aeolian Deposits
c) River Rejuvenation	d) Karst topography

2. When the Kaveri River as soon as it enters Tamil Nadu, which waterfall does it create?

a) Jog fall	b) Hoggenakka fall
c) Five falls	d) Paghaya Kotlam

3. A sudden, violent, gusty wind, which lasts a minute or two and then subsides, usually accompanied by rain or hail, is called:

a) Thunderstorm	b) Blizzard
c) Hoar	d) Squall

4. The following question has two set of statements. One labelled as Assertion (A) and the other labelled as Reason (R). Choose your answer from the codes given.

Assertion (A): The troposphere is the dense lower part of the atmosphere in which all the weather phenomenon likes condensation and storms occur.

Reason (R): In troposphere the atmospheric temperature decreases with altitude.

a) Both (A) and (R) are true and (R) is the correct explanation of (A).	b) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
c) (A) is true, but (R) is false.	d) (A) is false, but (R) is true.

5. Global change in sea level is caused by:

a) Eustatic change	b) Isostatic change
c) Climatic change	c) Diastrophism

Computer Science

1. The worst case time complexity of AVL tree is better in comparison to binary search tree for:

a) Search and Insert Operations	b) Search and Delete Operations
c) Insert and Delete Operations	d) Search, Insert and Delete Operations

2. The GSM network is divided into the following three major systems:

a) SS, BSS, OSS	b) BSS, BSC, MSC
c) CELL, BSC, OSS	d) SS, CELL, MSC

3. If the disk head is located initially at 32, find the number of disk moves required with FCFS if the disks queue of I/O blocks requests are 98, 37, 14, 124, 65, 67.

a) 239	b) 310
c) 321	d) 325

4. Component level design is concerned with:

a) Flow oriented analysis	b) Class based analysis
c) Both of the above	d) None of the above

5. The Mobile Application Protocol (MAP) typically runs on top of which protocol?

a) SNMP (Simple Network Management Protocol)	b) SMTP (Simple Mail Transfer Protocol)
c) SS7 (Signalling System 7)	d) HTTP (Hyper Text Transfer Protocol)

Comparative Literature

1. "Comparative Literature is the study of the literature beyond the confines of one particular country" – whose definition of comparative literature is this?

a) Ulrich Weisstein	b) H.H. Remak
c) Rene Wellek	d) Anna Balakian

2. When we trace the development of the sonnet in Europe since Petrarch's days, we are referring to:

a) Regional literature	b) World literature
c) National literature	d) General literature

3. The most important criterion for deciding the nationality of a writer is:

a) Linguistic	b) Geographical
c) Religious	d) Political

4. When one says, "A' has influenced 'B' on the basis of similarities between the works of two authors," we study:

a) Evidences	b) Sources
c) Affinities	d) Parodies

5. The cycle of American Literature is authorised by:

a) Arthur Rimbaud	b) Robert Spiller
c) Van Tieghem	d) Hypolytte Taine