

Ocean University of Sri Lanka

Aptitude Test 2024/2025

BSc in Maritime Transportation Management and Logistics

Index No

NIC No

Time: 02 Hours

Date: 26.10.2024

Instructions:

- This paper consists of FOUR (04) sections on 13 pages which carry equal weight
- Students may take 30 minutes for each section and spend equal effort on all parts
- Attempt all questions
- Underline/write the most appropriate answer using a Dark Pencil/ Black or Blue Ball point pen
- Only one answer is allowed for each question
- No marks will be deducted for wrong answers
- Calculators are not allowed
- Erase unwanted marks clearly
- Return the question paper with the answers

Section A

Underline the correct answer.

1. The 19th Heads of State and Government Summit of the Group of 20 (G20) will take place in November 2024 in
 - i. Bali, Indonesia
 - ii. Rome, Italy
 - iii. New Delhi, India
 - iv. Rio de Janeiro, Brazil
2. The total number of Sustainable Development Goals created as per the 2030 Agenda for Sustainable Development and adopted by all United Nations members is
 - i. 16
 - ii. 15
 - iii. 17
 - iv. 30
3. The Peninsula which is currently greening as a result of climate change is
 - i. Arabian Peninsula
 - ii. Alaska Peninsula
 - iii. Labrador Peninsula
 - iv. Antarctic Peninsula

4. How many species are currently listed in the IUCN Red List?
 - i. 160 000+ species
 - ii. 150 000+ species
 - iii. 45 000+ species
 - iv. 6 000+ species
5. The next Summer Olympics is scheduled to be held in 2028 in
 - i. Brisbane – Australia
 - ii. Paris – France
 - iii. Los Angeles – USA
 - iv. Milan – Italy
6. The sport which has not been proposed by the Organizing Committee for inclusion at the Olympic Games in 2028 is
 - i. Squash
 - ii. Cricket
 - iii. Lacrosse
 - iv. Surfing
7. Which country has won the Women's Twenty20 Asia Cup 2024?
 - i. Sri Lanka
 - ii. India
 - iii. Pakistan
 - iv. Bangladesh
8. The current armed conflict between Israel and Hamas-led Palestinian militant groups has been taking place in the Gaza Strip and Israel since
 - i. October 2022
 - ii. October 2023
 - iii. February 2024
 - iv. July 2024
9. The Artificial Intelligence (AI) directing Israel's bombing spree in Gaza is known as
 - i. Gospel
 - ii. Where's Daddy?
 - iii. Lavender
 - iv. Fire Factory
10. The richest person in the world as of now is
 - i. Larry Ellison
 - ii. Elon Musk
 - iii. Jeff Bezos
 - iv. Mark Zuckerberg
11. World Mental Health Day is celebrated on
 - i. 10th October
 - ii. 6th October
 - iii. 8th June
 - iv. 7th April
12. The international organization whose mission is to contribute to the building of a culture of peace, the eradication of poverty, sustainable development, and intercultural dialogue through education, the sciences, culture, communication, and information is abbreviated as
 - i. UNEP
 - ii. UNIDO
 - iii. UNICEF
 - iv. UNESCO
13. The largest desert in the world by area is
 - i. Arabian
 - ii. Syrian
 - iii. Saharan
 - iv. Antarctic
14. The world's smallest country by area is
 - i. Vatican City
 - ii. Maldives
 - iii. Monaco
 - iv. San Marino
15. Who holds the Guinness World Record for tallest living male?
 - i. Don Koehler
 - ii. Sultan Kösen
 - iii. Robert Pershing Wadlow
 - iv. Brahim Takioullah

Section B

Underline the correct answer.

1. International Maritime Organization celebrates/celebrated its 75th anniversary in
 - i. 2024
 - ii. 2023
 - iii. 2025
 - iv. 2022
2. The World Maritime Day theme for 2024, as declared by the International Maritime Organization is
 - i. "New technologies for greener shipping"
 - ii. "Navigating the future: safety first!"
 - iii. "Seafarers: at the core of shipping's future"
 - iv. "MARPOL at 50 – Our commitment goes on"
3. MARPOL stands for
 - i. International Convention for the Safety of Life at Sea
 - ii. International Convention on Standards of Training, Certification and Watchkeeping for Seafarers
 - iii. International Convention for the Prevention of Pollution from Ships
 - iv. Convention on the International Maritime Satellite Organization
4. The measurement used to determine cargo capacity for container ships and terminals is
 - i. Twenty Equivalent Unit
 - ii. Cargo tonnage
 - iii. Car Equivalent Unit
 - iv. Twenty-foot Equivalent Unit
5. The strategy initiated by the People's Republic of China that seeks to connect Asia with Africa and Europe via land and maritime networks is currently known as
 - i. Belt and Road Initiative
 - ii. Silk Road Economic Belt initiative
 - iii. Trans Asian Economic Corridor
 - iv. None of the above
6. Sri Lanka celebrates its National Logistics Day on each year.
 - i. 18th August
 - ii. 16th August
 - iii. 26th September
 - iv. 8th June
7. Sri Lanka's first-ever Multimodal Transport Centre is located at
 - i. Kadawatha
 - ii. Mattala
 - iii. Peliyagoda
 - iv. Kottawa
8. Hambantota International Port is located from global shipping route linking the Far East with the West.
 - i. 10 nautical miles
 - ii. 10 km
 - iii. 10 km²
 - iv. 200 nautical miles

9. UNCLOS stands for
- United Nations Committee on Law of the Sea
 - United Nations Congress on Law of the Sea
 - United Nations Convention on the Law of the Sea
 - United Nations Conference on the Law of the Sea
10. What is the largest container ship in the world by 2024?
- OOCL Spain
 - MSC Irina
 - MSC Tessa
 - ONE Infinity
11. The Exclusive Economic Zone (EEZ) of Sri Lanka is extending up to from the coastline.
- 50 000 km²
 - 200 nautical miles
 - 205 000 km²
 - 10 nautical miles
12. According to the Guinness World Records, what is the longest highway/ motorway in the world?
- Pan-American Highway
 - Australia Highway One
 - Trans-Siberian Highway
 - Trans-Siberian Highway
13. What is the largest shipping line in the world by 2024?
- Maersk
 - COSCO Group
 - CMA CGM Group
 - Mediterranean Shipping Company
14. The container ship best known for causing the collapse of the Francis Scott Key Bridge in Baltimore in March 2024 is
- MSC Flaminia
 - Dali
 - MOL Comfort
 - Maersk Honam
15. The world's first autonomous, fully-electric cargo ship is
- Zulu
 - Suzaku
 - Yara Birkeland
 - Mikage
16. How many ports in Sri Lanka are managed currently by the Sri Lanka Ports Authority?
- 5
 - 6
 - 7
 - 8
17. What is the largest cruise ship sailing between Hambantota/Colombo and Phuket, Thailand?
- Celebrity Millennium
 - Riviera
 - Silver Moon
 - Le Jacques Cartier
18. Where is the Northern End of the E02 Outer Circular Expressway in Sri Lanka?
- Kottawa
 - Kerawalapitiya
 - Kadawatha
 - Bandaranaike International Airport

19. What is the longest highway in Sri Lanka?
- A9 Highway runs from Kandy to Jaffna
 - A2 Highway runs from Colombo to Wellawaya
 - A4 Highway runs from Colombo to Batticaloa
 - A1 Highway from Colombo to Kandy
20. The vessels which are specifically designed to transport wheeled cargo are known as
- Bulk Carriers
 - Reefer Vessels
 - Heavy Lift Cargo Vessels
 - RO-RO Vessels
21. What is the busiest airport in the world by 2024?
- Atlanta Hartsfield-Jackson International Airport
 - Dubai International Airport
 - Tokyo (Haneda) International Airport
 - London Heathrow Airport
22. What is the fastest mode of transportation?
- Air
 - Road
 - Maritime
 - Rail
23. What is the most economical mode of transportation?
- Air
 - Road
 - Maritime
 - Rail
24. What is the most scalable mode of transportation?
- Air
 - Road
 - Maritime
 - Rail
25. Select the incorrect statement about Logistics
- Logistics was initially a military-based term used in reference to how military personnel obtained, stored and moved equipment and supplies.
 - Logistics and transport are the same
 - Logistics refers to how resources are handled and moved along the supply chain.
 - Logistics is the process of planning and executing the efficient transportation and storage of goods from the point of origin to the point of consumption.

(1 X 25 = Total 25 Marks)

Section C

1. Fill in the blanks of the following passage using the most suitable word given below.

[shipping, affect, social, marine, and, development, such as, challenges, their, maritime, sustainable, destruction, from, growth, reduction, however, encompasses, contribute, to, benefits]

The blue economy, or the ocean or economy, refers to the use of ocean resources for economic, improved livelihoods, and ocean health. The blue economy a range of sectors, such as fisheries, aquaculture,, energy, tourism, and biotechnology. Its potential to to sustainable, and poverty has gained attention policymakers, scholars, and stakeholders., the blue economy also faces modern threatening its sustainability and potential Climate change, overfishing, pollution, and habitat are significant threats the health of oceans and resources. These challengesthe environment and have economic and consequences, losing biodiversity, livelihoods, cultural heritage.

(0.5 x 20 = Total 10 Marks)

2. Read the paragraph and answer the questions.

Supply Chain Agility

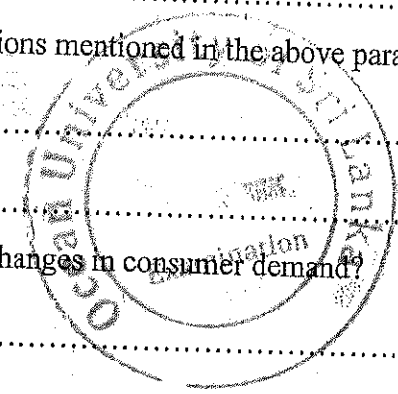
The visuals of empty store shelves during the pandemic continue to serve as an important reminder: The ability to quickly adjust supply chains to shifting market dynamics can determine a business's overall health and impact on lives worldwide. Market deviations are unpredictable, whether it's demand reduction, a bullwhip effect, or a raw material shortage. To keep up with changes and stay financially healthy, businesses need supply chains that can shift on a dime.

Organizations with agile supply chains can more easily respond to changes in consumer demand, collaborating with suppliers and departments internally to scale production up or down. Accordingly, Supply chain agility is a supply chain organization's ability to respond efficiently and avoid making knee-jerk reactions to fluctuations in consumer demand as well as the effects of market vulnerabilities such as geopolitical crises, shortages of labor or raw materials, and acts of nature.

There are two broad categories of supply chain agility: structural and operational. Structural agility refers to the ability to quickly realign procurement, inventory flows, and capacity usage across the supply chain. This requires oversight of raw materials and finished products as they move from suppliers to manufacturers to customers, anticipating demand trends and supply disruptions at a granular level. Automation and seamless data flows facilitate this kind of agility.

A large retailer, for example, might create structural agility by integrating their inventory management software with demand forecasting to create automated stock replenishment plans. That way, the company can quickly respond to potential product shortages and prevent stockouts. Operational agility is the ability to optimize processes throughout the supply chain for a swift response to short-term, unexpected demand and supply shifts. This type of agility comes from real-time supply chain planning, vertically integrated manufacturing, and close relationships with suppliers. Accordingly, top ways to create supply chain agility include investing in supply planning and demand forecasting technologies, partnering with multiple suppliers, automating warehouses, and optimizing inventory levels.

- a) What can determine the business's overall health and impact on lives worldwide? (01 Mark)
.....
.....
- b) What are the market deviations mentioned in the above paragraph? (01 Mark)
.....
.....
- c) Who can easily respond to changes in consumer demand? (0.5 Marks)
.....
.....
- d) What are the categories of supply chain agility? (0.5 Marks)
.....
.....
- e) What facilitates structural agility? (01 Mark)
.....
.....
- f) How could companies prevent stockouts? (02 Marks)
.....
.....
.....



g) How could companies create operational agility? (02 Marks)

.....
.....
.....

h) In what ways could companies create overall supply chain agility? (02 Marks)

.....
.....
.....

(Total 10 Marks)

3. Underline the correct answer.

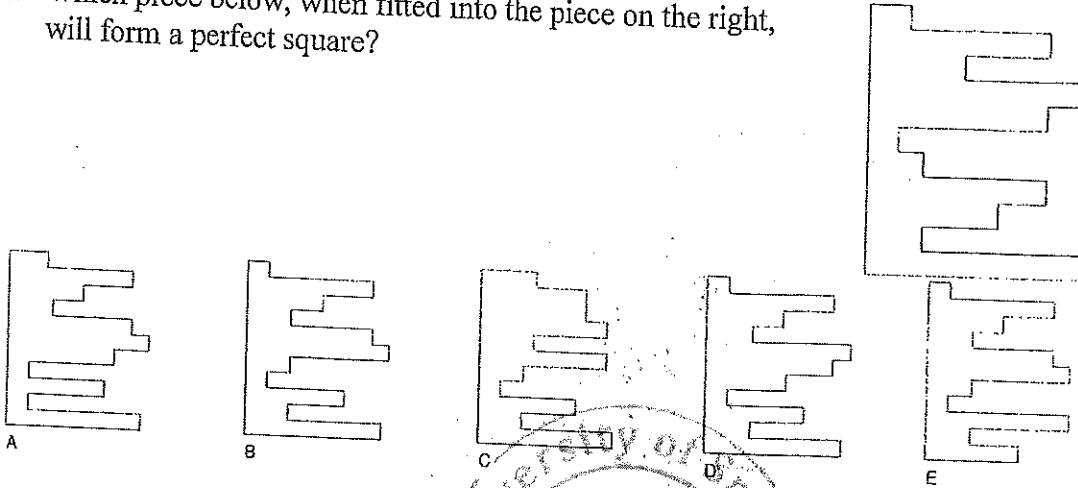
- a) The book is optional. My professor said we could read it if we needed extra credit. But we read it if we don't want to. (~~must not~~, ~~cannot~~, ~~don't have to~~)
- b) My uncle's flight from Amsterdam took more than 11 hours. He Be exhausted after such a long flight. (~~had better~~, ~~can~~, ~~must~~)
- c) The Television isn't working. It damaged during the move. (~~must~~, ~~must have been~~, ~~must be~~)
- d) You leave the table once you have finished your meal and politely excused yourself. (~~might~~, ~~would~~, ~~may~~)
- e) If I had gone water rafting with my friends, I down the river right now. (~~would be floating~~, ~~would float~~, ~~would have floated~~)

(1 x 5 = Total 05 Marks)

Section D

Underline or write the correct answer in the given space.

1. Which piece below, when fitted into the piece on the right, will form a perfect square?

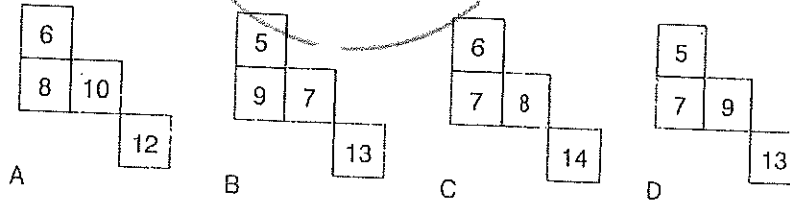


2. 0, 1, 2, 4, 6, 9, 12, 16, ? What number should replace the question mark?

3. Which number is the odd one out?
 A. 9678 B. 4572 C. 3527 D. 5133 E. 7768

4. Which is the missing section?

1	2	4	7
4	?	7	10
6	?	?	12
7	8	10	?

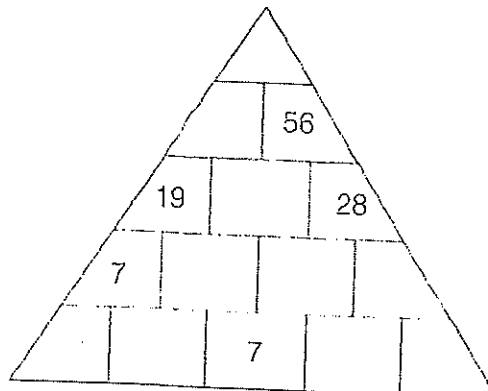


5. Identify two words (one from each set of brackets) that have a connection (analogy) with the words in capitals and relate to them in the same way.

GRAM : (energy, weight, scales)

KNOT : (water, rope, speed)

6. Each number in the pyramid is the sum of the two numbers immediately below it. Fill in the pyramid with the missing numbers.



7. How many minutes is it before 12 noon, if 48 minutes ago it was twice as many minutes past 9 am?

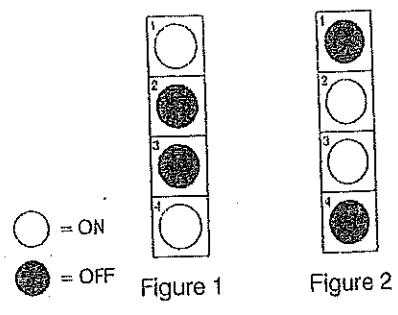
- A. 12 B. 24 C. 34 D. 44 E. 54

8. Which is the odd one out?

- A. heptagon B. triangle C. hexagon D. cube E. pentagon

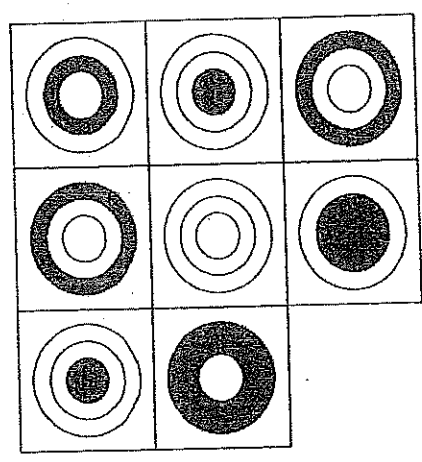
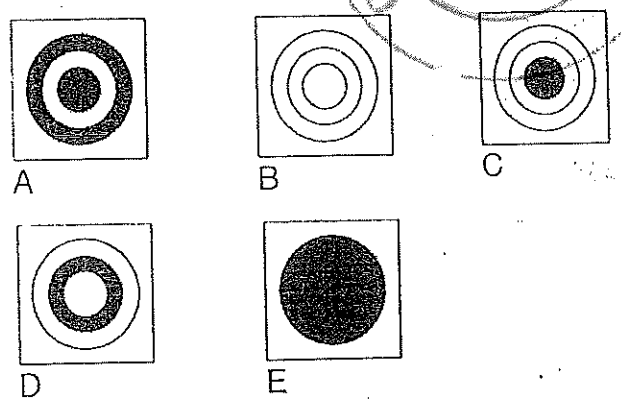
9. *Switch A turns lights 1 and 2 on/off or off/on
 *Switch B turns lights 2 and 4 on/off or off/on
 *Switch C turns lights 1 and 3 on/off or off/on

Switches C, A and B are thrown in turn with the result that Figure 1 turns into Figure 2. Which switch does not work at all?

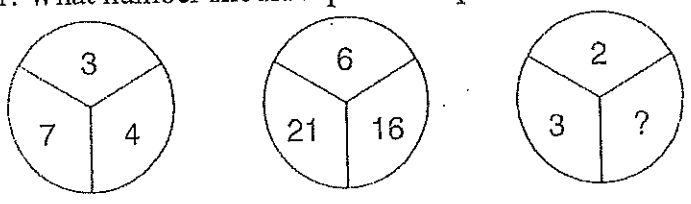


.....

10. Which is the missing tile in the figure on right?



11. What number should replace the question mark?.....



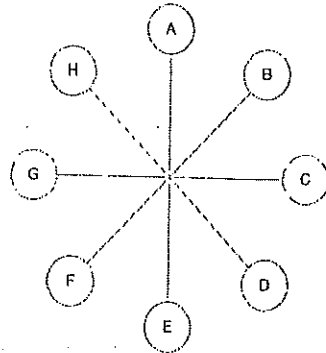
12. What two numbers should replace the question marks?.....,

10, 30, 32, 96, 98, 294, 296, ?, ?

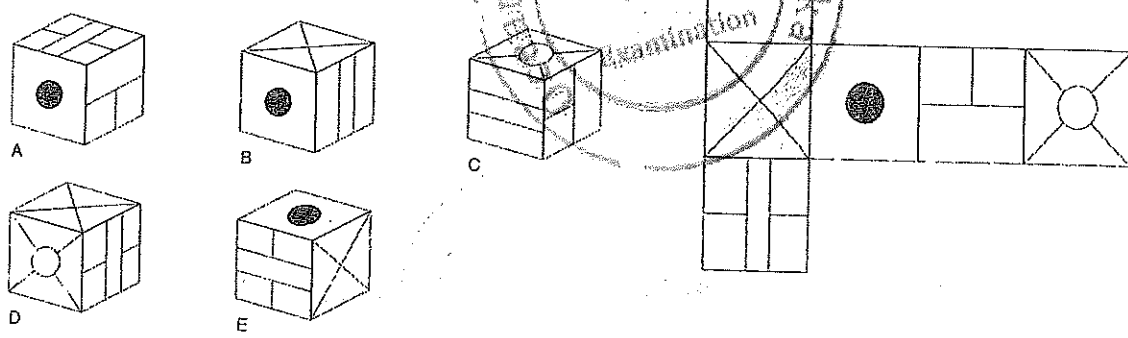
13. Alf has four times as many as Jim, and Jim has three times as many as Sid. Altogether they have 192. How many has each?

Alf:..... Jim:..... Sid:.....

14. What letter is directly opposite the letter that is two letters away clockwise from the letter that is directly opposite the letter E?.....

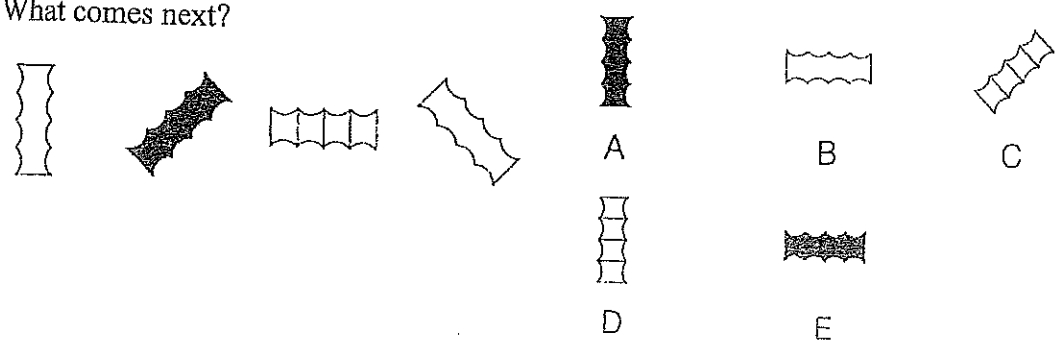


15. When the design on right is folded to form a cube, which is the only one of the following that can be produced?

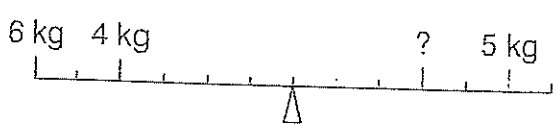


16. My watch was correct at noon, after which it started to lose 17 minutes per hour until six hours ago it stopped completely. It now shows the time as 2.52 pm. What time is it now?
.....

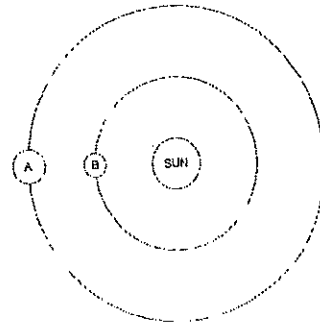
17. What comes next?



18. What weight should be placed at '?' to make the scale balance?.....



19. If planet A takes two years to revolve once round its sun, and planet B takes one year, when will they next both be in line with the sun?.....



20. If 5 cats can catch 5 mice in 5 minutes, how many cats are needed to catch 100 mice in 100 minutes?.....

21. A man is looking at a painting of someone. His friend asks, "Who is it that you're looking at?" The man replies, "Brothers and sisters, I have none. But that man's father is my father's son." Who is in the painting?.....

22. James is a farmer managing various animals, including 20 cows, 50 sheep, and 100 chickens. During the fall, a common disease spread among the animals, making 17 of the sheep ill. Unfortunately, by the end of winter all but 9 of the sheep did not survive the illness. How many sheep are still alive?.....

23. You have a 3-liter jug and a 5-liter jug, and an unlimited supply of water. You need to measure exactly 4 litres of water using these two jugs. How many times do you need to pour water from one jug to the other to measure 4 litres?.....

24. There are three boxes: one contains only apples, one contains only oranges, and the third contains both apples and oranges. The boxes are labelled incorrectly. You are allowed to open only one box at a time and take out one piece of fruit without looking inside. What is the minimum number of picks required to correctly label the boxes?.....

25. In a family of six members, A, B, C, D, E, and F, all the elders are married couples. A is a doctor and the father of D. E is the grandfather of D and is a lawyer. B is D's mother and a teacher. C is unmarried and is an engineer. How is F related to A?.....

(1 X 25 = Total 25 Marks)

End of the Paper

