Transport and Communication

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Write full answers in Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The first public railway line opened in 1825 between Stockton and:
   (a) Manchester **(b)** Liverpool **(c)** London **(d)** Darlington

2. The Trans-Canadian Railway runs between:
   (a) Paris and Istanbul **(b)** Perth and Sydney
   (c) Halifax and Vancouver **(d)** New York and San Francisco

3. What does the Pan-American Highway connect?
   (a) Delhi, Mumbai, Chennai and Kolkata **(b)** Edmonton and Anchorage
   (c) Vancouver and St John's **(d)** South, Central and North America

4. What does the South Pacific sea route link?
   (a) western Europe and North America with Australia through the Panama Canal
   (b) western Europe with West Africa, South Africa and Australia
   (c) western Europe and West Africa with Brazil and Argentina
   (d) north-eastern USA and north-western Europe

5. Which mode of transport suits bulky freight between continents best?
   (a) roads **(b)** pipelines **(c)** ocean ships **(d)** airways

6. The Trans-Canadian Railway was built in 1886; India launched Aryabhata in 1975. How many years apart were these?
   (a) 89 years **(b)** 86 years **(c)** 99 years **(d)** 90 years

7. Belgium has about 1 km of railway for every 6.5 sq km. Suppose a region of 416 sq km had the same density. How many km of railway would it have?
   (a) 64 km **(b)** 77 km **(c)** 416 km **(d)** 32 km

8. Suppose a canal cuts a voyage by 1,551 km and a ship sails at 33 km/h. How many hours does the canal save?
   (a) 47 hours **(b)** 80 hours **(c)** 1,551 hours **(d)** 94 hours

Section B — Short answer — 8 × 2 = 16 marks

9. What is a transport network?

10. Between which places does each run? (a) the Trans-Siberian Railway (b) the Australian Trans-Continental Railway

11. Describe each inland waterway: (a) the Mississippi–Ohio (b) the Great Lakes–St Lawrence Seaway

12. Which came first, and by how many years? (a) India launched Aryabhata (1975) (b) Bhaskar-I was launched (1979)

13. North America has about 0.65 km of highway per sq km. Suppose a region of 6,280 sq km had the same density. How many km of highway would it have?

14. Where are these animals used to carry loads? (a) bullocks (b) horses

15. Suppose New York to San Francisco by sea around South America is 28,000 km. The Panama Canal cuts about 13,000 km. What is the new distance, and how many days are saved by a ship sailing 650 km a day?

16. About 17% of all freight (per tonne-km) in the USA goes by pipeline. Suppose the total were 2,300 billion tonne-km. How much would go by pipeline, and name one famous US oil pipeline?

Section C — Longer answers — 4 × 4 = 16 marks

17. “In a well-managed transport system, the modes complement each other.” Explain.

18. Match each with its link: (a) North Pacific (b) Mediterranean–Indian Ocean (c) South Pacific. Choose from: western Europe and North America with Australia through the Panama Canal; the west coast of North America with East Asia; Europe and Asia through the Suez Canal.

19. (a) Put these in order, earliest first: India launched Aryabhata (1975); the Suez Canal was built (1869); the first public railway opened between Stockton and Darlington (1825). (b) How many years from the first to the last? (c) Explain how one of these changed transport or communication.

20. Suppose a ship saves 3,944 km by using the Suez Canal instead of the Cape of Good Hope route, sailing at 34 km/h. (a) How many hours are saved at sea? (b) Crossing the canal takes about 11 hours: what is the net saving? (c) Why do some ships still take the Cape route?

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Answer key

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Q	Answer	Working
1	(d) Darlington	—
2	(c) Halifax and Vancouver	—
3	(d) South, Central and North America	—
4	(a) western Europe and North America with Australia through the Panama Canal	—
5	(c) ocean ships	—
6	(a) 89 years	1975 − 1886 = 89
7	(a) 64 km	416 ÷ 6.5
8	(a) 47 hours	1,551 ÷ 33
9	Several places (nodes) joined by a series of routes (links) to form a pattern.	—
10	(a) St Petersburg and Vladivostok (b) Perth and Sydney	—
11	(a) joins the interior USA with the Gulf of Mexico (b) lets ocean ships reach deep into North America	—
12	India launched Aryabhata, by 4 years	1979 − 1975
13	4,082 km	6,280 × 0.65
14	(a) pulling carts in Indian villages (b) drawing carts, even in Western countries	—
15	15,000 km; 20 days	28,000 − 13,000; 13,000 ÷ 650
16	391 billion tonne-km; the Big Inch	17% of 2,300
17	Roads serve short distances and doors, railways bulky goods over land, ships international freight, airways light valuable goods and pipelines liquids; together they move everything efficiently.	—
18	(a) the west coast of North America with East Asia (b) Europe and Asia through the Suez Canal (c) western Europe and North America with Australia through the Panama Canal	—
19	(a) the first public railway opened between Stockton and Darlington; the	—

Q	Answer	Working
	Suez Canal was built; India launched Aryabhata (b) 150 years (c) Answers will vary; see the chapter.	
20	**(a) 116 hours (b) 105 hours (c) the canal's tolls are heavy, so the longer route is cheaper when delay does not matter**	3,944 ÷ 34; − 11

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