

### WINTER - 19 EXAMINATION

### Model Answer

Subject Name: Transport management and Motor Industries

Subject Code: -

22557

### **Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No	Sub Q.	Answer	Marking Scheme
•	N.		
1		Attempt any FIVE of the following:	10
	(a)	Define the terms (i) Fare (ii) Gross Vehicle	02
	Ans	<ul> <li>(i) Fare It means the sum payable for a daily or seasonal ticket in respect of the hire of a contract or Stage carriage </li> <li>(ii)Gross vehicle weight: The total permissible weight carried by the vehicle. This weight includes material stress, the permissible axle load and maximum loads set by the manufactures.</li></ul>	Each term 1 mark
	(b)	Explain the meaning of Taxation.	02
	Ans	<b>Taxation:</b> Taxes in India are levied by the Central Government and the state governments. Some minor taxes are also levied by the local authorities such as the Municipality. A Tax is nothing but a compulsory contribution to nation.	
	(c)	Write documents required to obtain permanent driving license.	02
	Ans	<ul> <li>Documents required for getting Permanent Driving License-</li> <li>I. Application for a driving license in Form 4.</li> <li>II. Following documents should be attached with Form 4 -</li> <li>1. Learner's license,</li> <li>2. Appropriate fee for the test of competence to drive and issue of license,</li> <li>3. Three copies of the applicant's recent passport size photograph</li> <li>4. Medical certificate in Form 1-A,</li> </ul>	02 Marks



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<b>a</b> )	Differentiate between S.T.A. and R.T.A.	04
	Attempt any THREE of the following	12
	6. All India Tourist permit	
	5. National permit	
Ans		02
	3. Private service vehicle permit	
	2. Contract carriage permit	
	1. Stage carriage permit	
(g)	Write types of PERMIT.Types of Permits. ( any two – 02 marks)	02
	2) CIRT: Central Institute of Road Transport Write types of PEPMIT	02
Ans	1) PCRA: Petroleum Conservation and Research Association	02
( <b>f</b> )	Write full forms of PCRA and CIRT.	02
	4) Smart cards are made up from durable material.	
	3) Easy to carry.	
Ans	(SSO) within large organizations.	02
A	2) Smart cards may provide strong security authentication for single sign-on	0.2
	and application processing.	
(-)	1) Smart cards can provide identity documentation, authentication, data storage,	
(e)	State any two advantages of smart card.	02
	delivery of consignment.	
	4. <b>Online Payment:</b> Payment through Internet banking in advance or after the	
	consigner copy, driver's copy, head office copy for accounts and office copy.	
Ans	There are five copies of a goods consignment notes for consignee copy,	
	<ol> <li>Billing: In this type, party to pay the freight charges in advance.</li> <li>Billing: In this type, party has to pay the charges on submission of bills.</li> </ol>	
	<ol> <li>Paid: In this type, party to pay the freight charges in advance.</li> </ol>	
	1. <b>To Pay at Destination</b> : In this type of booking the party has to pay the cash and take delivery.	
	Following types of booking used in transport management.	
( <b>d</b> )	Name the types of Bookings.	02
	Nome the types of Deckings	0.2
	case of Transport Vehicle)	
	Certificate, Insurance Certificate, Tax Card, PUC Certificate, Fitness Certificate in	
	8. All valid documents of the vehicle on which the test to be conducted (Registration	
	7. Driving school's certificate in Form 5 for all transport vehicles,	
	iii. Election Voters ID card	
	ii. Telephone bill	
	i. Electricity Bill	
	6. Proof of address (copy of any one)	
	iii. PAN card,	
	ii. SSC Board Certificate	
	i. School Leaving Certificate (LC)	



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	Answ			
	NO	STA	RTA	
	•	It is the State Transport Authority	It is Regional Transport Authority	
	2.	STA gives effect to directives issued under section 67 to control road transport by state government through the state	RTA decides the policies to control road transport as per the directives of STA through the state.	
	3.	To coordinate and regulate the activities and policies of the regional transport authority.	To fix the fares for auto- rickshaw,taxies from time to time throughout the region	Any four
Ans	4.	To conduct not less than two meetings in a year	To conduct not less than six meetings in a year.	points – 1 mark
	5.	Chairman-Transport secretary	Chairman-Divisional/revenue commissioner	each
	6.	Member-IG(police), chief engineer of PWD, few MLA's and two non- government representatives.	Deputy, IG(police), superintending engineer of PWD, few MLA's and one non-government representatives	
	7.	Secretary-Transport commissioner or joint transport commissioner.	Secretary-Regional Transport officer.	
	8.	To consider application for grant, renewal or transfer of permit on interstate routes.	To consider application for grant, renewal license of permit within the region	
<b>b</b> )	What	factors are to be considered while by	ving now motor vohiolo	04
(U)		factors are to be considered while bu		04
Ans	<ul> <li>a) Che</li> <li>i) Ch</li> <li>lifesty</li> <li>ii) Ch</li> <li>option</li> <li>antiloo</li> <li>b) Ex-</li> <li>i) The</li> <li>ii) Ex</li> <li>registritax etc</li> <li>c) Use</li> <li>i) Se</li> <li>(Person</li> <li>d) Insp</li> <li>ii) Bet</li> </ul>	rs to be considered for buying new car as eckout the features and quality of new ver- eckout the features offered and addition le. heckout the quality factors of new vehice in of using alternative fuels like CNG/L ck braking system etc -showroom price and on road price- re is huge difference between on-road pri- showroom price is the basic price whi ration charges, extended warranty if any c. After adding all these you will get on the e of vehicle lect the vehicle on basis of for what price ponal use, Commercial use, expected seating pecting the vehicle fore purchasing the vehicle inspect the bur demands or not.	ehicle – nal optional fittings, which suits your cle like mileage, fuel storage capacity, LPG, also safety features like airbags, rice and ex-showroom price. hich does not include Insurance, RTO and sometimes the Municipality Road road price.	(any 04 points, 01 mark each)



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e) Gather expert reviews i) Read expert comments and reviews on the vehicle, you are buying. ii) Do the comparative study with other same class of vehicles to checkout for added benefits. iii) Enquire about extended warranty as well as regular service contract. f) Test drive the vehicle – i) Analyse and be sure that the vehicle has characteristics that you are looking for. ii) Inspect and feel carefully all the interior and exterior such as bonnet, of vehicle. iii) Checkout your vehicle thoroughly including braking, electrical, steering system etc before driving at home. g) When and where to buy i) Vehicles prices hike up and down often, Ex- Showroom price & tax applicable can also varied as per location hence it's important to decide when and where to buy a vehicle. h) Closing the deal – Vehicles prices hike up and down often, so negotiate the price of the vehicle. Remember the Actual price of the car may be far less than the Advertised price so bargain as much as possible. Describe the procedure of survey and valuation of vehicle. 04 c) Steps involved in preparation of accident survey report: Whenever an accident occurs all particulars have to be collected for purpose of preparing a report known as accident survey report. While applying for insurance claim to insurance company when the vehicle is met to an accident or damaged due to any natural calamity, an Accident survey report is required to be attached with application form. It is prepared by the surveyor appointed by the insurance company. 1) Whenever an accident occurs all particulars have to be collected and ascertained as given belowa) General: Site, date and time of accident b) Registration no. of vehicle involved in accident c) Nature of Accidents - Collision with or avoidance of overturning or any other kind of accident. Ans d) Primary Cause of accident - Fault of driver or pedestrian, defective road surface, other cause, unknown. e) Light condition- Daylight, dusk, dark with good street light, dark with no street light. f) Road condition- Straight, bend, intersection, flat, dry, wet, hill, concrete, earth road. g) Traffic condition- Dense/light/moderate traffic, controlled junction, uncontrolled iunction. h) Responsibility of driver- Sex, age, driving experience, intoxicated, asleep or inattentive, Speeding. i) Responsibility of Pedestrian- Age, deaf, blind or otherwise walking on road, crossing or Running into road, intoxicated, confused by traffic, talking in roadways. Particulars of motor vehicle- Age of vehicle, overload, and defective brakes,



can be decided.

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defective steering, puncture or burst, other serious mechanical defects. k) Causalities persons killed/ injured- Rider of motorcycle, passengers other than driver or rider, cyclist, pedestrian, not known. 2) Assess the quantum of loss. 2) Determine the liability of the insurers within the framework of policy conditions. 3) Negotiate with the insurer/advise the insurers regarding the disposal of salvage. 4) Prepare the detail survey report and submit it to the insurer **Procedure of Valuation:** The process of determining the current worth of a vehicle is called as valuation. There are many techniques that can be used to determine value, such as subjective and objective 1) Know the current market value of vehicle 2) Calculate the depreciation of vehicle based on market value. for this consider i) Make, Model and Variant e.g. Maruti Swift VDi ii) Month and Year of Manufacture e.g. July 2009 iii) The city in which the car was registered. 3) Calculate the depreciation of vehicle based on usage and aging. 4) Analyze the mechanical condition and damage occurred with respect to Body, Chassis, and Aesthetics, Engine condition, vibrations, noise etc. 5) Consider the Tyre condition and decide tyre cost. d) State the passenger amenities and infra structural facilities required. 04 Following amenities and infrastructural facilities are to be provided in a bus stand : (Any 8 1. Waiting hall for passenger points, 2. Rest room for passenger each 3. Canteen facility Ans point 4. Drinking water carry 1/2 5. Toilet and wash room Mark) 6. Parking for two wheelers and four wheelers 7. Cycle stand 8. Mobile charging facility 3 Attempt any THREE of the following 12 04 Discuss the basic factors considered in bus scheduling. a) Basic factors in bus scheduling-1) Traffic demand: Assessing the volume or traffic demand is essential in bus scheduling. Traffic survey should reveal traffic movement sector wise density, centripetal and centrifugal flow, peak and lean periods, competition from other (Any four-Ans modes of transport. 1 mark Road survey helps to judge the feasibility of road operation. Route length, route each) condition, traffic points running time, fixation of bus stop. 2) Run time: It is the time taken by a bus on a particular route. Depending upon the time taken for one trip, number of buses running on that route and their frequency



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7) Registration and Tax payment: The vehicle R.C. book must be checked. This will

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		indicate the model a the insurance, expiry 8) Make and Model, possible to indicate 9) Number of Owne and type of persons 10) Popularity of the vehicles goes up and	y date can a Year: This the number rs: From R who owned e make depo	llso be seen. s can be seen from of years of servio .C. book it is poss l.	n R.C. book but v ce of vehicle. sible to know the	with experience it is number of owners	
	d)	State the important i) Log-boo ii) Vehicle	k	ving documents	in transportatio	n.	04
		running time updates log time, idle tir goods etc an driver. At th documents. 7 records play	<ul> <li>for a trip a book regul ne due to reduce to red</li></ul>	and allied factors arly. The data li rest, maintenance stance covered, a p, the driver pro- ok gives the clea ant role in decidi transport. The for Start time Rest time ktained from Tri lger. The trip is itional columns re cost. The bala lger is collective	<ul> <li>The driver of m ke the station, day, fuelling, loadin are written in the duces the log book r picture about a ng the routes, sc mat of log book</li> <li>Stop time</li> <li>Stop time</li> <li>Dependent of the poperational Sh indicated by a triare provided for nce of cash avail</li> </ul>	Running time Running time	02 marks for each
4		Attempt any THRI	EE of the fo	ollowing			12



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a)	Explain the significance of BVS Depot with lay-out.	04
Ans	Significance of Bus Depot: Bus should get full marks) Significance of Bus Depot: Bus depot has important roles for a region that chooses bus mode in their transport system. Bus depot development attracts many attentions in the world of real estate development as it is a fixed infrastructure and facility that involves considerable land-use, long term investment (site selection), resources and buildings. The bus depot carries acceptable overall costs for its public administration and public transport operator body, reaches the marked and brings social benefit for the community, with long time perspective. It is optimal for the important stakeholders that are related to the depot. For the owner of public transport (e.g. a county) and its transport operator body, sufficient capacity and optimal location is the desirable situation. It has good building and design with sufficient dimension and right facilities to accommodate people and buses activity continuously in short and long period.	Explanat on -2 Marks Layout- 2 Marks
<b>b</b> )	Describe the working of MSRTC.	04
Ans	Maharashtra State Road Transport Corporation (MSRTC) is the state run bus service of Maharashtra, India with approx.16, 000 buses which ferry 7 million passengers daily on 17,000 routes. It is the third largest bus service provider in India and serves routes to towns and cities within Maharashtra and adjoining states. It employs the three tire system for maintaining their buses as Central Workshop, Divisional Workshop and Depots. The work distribution at different levels is as follows- i) Central Workshop-	



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Ans		
	Describe four cuses where suspension of Registration of vehicle take place.	<b>07</b>
Ans	<ul> <li>Answer: Motor vehicle Insurance is an agreement between the insurer and the insured wherein the insurer provides financial cover for the vehicle and the insured in return pays specific premium annually. It provides protection for your vehicle against the financial loss and liability that could result as a part of accident or theft. Following are the two types of vehicle insurance</li> <li>1) Comprehensive insurance It covers the risk of vehicle and its owner or driver as well as third party which involves in accident. Fire and theft cover is also provided against damage to the insured's vehicle. It does not include mechanical breakdown. The extent of comprehensive insurance may vary in detail from company to company. It is required to renew the policy annually, and it can be renewed two months in advance.</li> <li>2) Third Party insurance – It means the person or property other than the vehicle and vehicle owner are safeguarded under this insurance. It is compulsory to all vehicles to safeguard the interest of pedestrians. Personal injuries and personal vehicle damages will not be covered by this policy. For two wheelers, we can take this policy for life time. For other vehicles this policy has to be renewed annually.</li> </ul>	02 marks for each type 04
c)	<ul> <li>Body building work on new chassis is done in the 3 Central Workshops i.e. Pune, Aurangabad and Nagpur on Ashok Leyland and TATA chassis. The major activities carried out at central workshop are as follows <ol> <li>Reconditioning of engine, gear box and differential,</li> <li>Work pertaining to major accidents,</li> <li>Body building, tyre re-treading, and</li> <li>Work pertaining to retrieval of spare parts etc are</li> </ol> </li> <li>MSRTC is having 32 Divisional Workshops located at the Divisional Headquarters wherein vehicle maintenance is carried out as follows.</li> <li>Six monthly docking.</li> <li>RTO passing.</li> <li>Assembly overhauling.</li> <li>Accident Repairs.</li> <li>Depot:</li> </ul> MSRTC is having 248 Depot Workshops for daily maintenance and running repairs of the buses. The main jobs carried out are as follows. <ol> <li>Preventive Maintenance - Engine Oil Change, Running repairs, minor repairs etc.</li> <li>By-Monthly Docking</li> </ol> <li>What is mean by third party Insurance and Comprehensive Insurance of vehicle.</li>	04



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	e)	Write general provision regarding construction and maintenance of motor vehicle	04
	Ans	The Central government may make rules regulating the construction, equipment and maintenance of motor vehicles and trailers to all or any of the following matters namely, i) The width, height, length and overhang of vehicles and of the load carried, ii) The size, nature and condition of tyres, iii) Brakes and steering gear, iv) Signaling appliances, lamps and reflectors v) Speed governors vi) The emission of smoke, visible vapours, sparks, ashes, girt or oil, vii) The reduction of noise caused by vehicles, The embossment of chassis number and engine number and the date of manufacturing.	
5		Attempt any TWO of the following	12
	a)	Describe the procedure of claiming compensation of accidental vehicles.	06
	Ans	<ol> <li>The person who are injured or whose property is damaged or nominee of the person who have got death are required to apply for compensation in appropriate form along with the duly filled discharge receipt and the undertaking to Claim Enquiry Officer of the district in which the accident have taken place within the period of six months from the date of accident</li> <li>In case of all major accident prefer spot survey. The surveyor will visit the workshop for inspection of the vehicle and finalization of the claim amount with the owner and / or repairer.</li> <li>Provide copies of the legal documents, viz FIR, Challans, postmortem report or certificate of injury to the insurance company for quick disposal of claim.</li> <li>The Claims Enquiry Officer decides who the right claimant is and submits a report in Form-III to Claims Settlement commissioner who issues the sanction order of the claim in Form IV to the insurance company.</li> </ol>	06 Marks
		Draw the sketch for following traffics signs i) No Entry	
	b)	<ul><li>ii) Railway Crossing (Guarded)</li><li>iii) No parking</li></ul>	06

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		5. Minimum height of numerals	4.0 cm	9.0 cm	
		<ul><li>5. Minimum height of numerals</li><li>6. Minimum thickness of numerals</li></ul>	0.7 cm	2.0 cm	
		0.Niminum unckness of numerals7.Minimum space between letter and	0.7 cm	1.5 cm	
		numeral	0.5 cm	1.5 011	
		inuitoitui			
6		Attempt any TWO of the following			12
	a)	State the role of ARAI and VRDE with their	r full form		06
	Ans	<ul> <li>ARAI :Automotive research Association Of <ol> <li>ARAI is co-operative industrial research as with the Ministry of Industries, Government western part of Pune, Maharashtra established </li> <li>The Role of the Association are to provide r engineering for industry, Product design and d equipment, Testing, Certification and Calib developing safe, reliable and eco-friendly &amp; products, Carry out test and calibration in customer's requirements and to Harmonize Is standards </li> <li>In order to meet the development requiren competence build-up projects are completed. Software Installation, Development of bi-fi software capabilities in Noise, Vibration, Analysis, VDACS software for chassis Measurement System and Digitally Controlled </li> <li>ARAI is the first Indian institute to devel fuel engine complying with EURO V stand (HCNG is greener than CNG and perceived fuels. The engine has been developed for Tata VRDE: Vehicle Research &amp; Development E Functions and role of VRDE: <ol> <li>Its primary function is to help the defens design, development, testing and certification of </li> <li>The National Centre for Automotive Tes VRDE, provides one stop solution to all ve Road testing). </li> </ol> </li> <li>Development of specialist vehicles and system </li> <li>Development of engines for unmanned aeria </li> <li>Development of armoured wheeled vehicles </li> </ol></li></ul>	ssociation by of India. The in 1986. research & de evelopment, I pration servic user-friendly accordance v ndian automo- nents of Indu These are E uel CNG kin Harshness A dynamomet Load Simula D institute in op HCNG (H dards for lig as the ultim Motors) stablishment is as well as a ting (NCAT) hicles testing stems for various and variants	e ARAI is located in the velopment in automotive Evaluation of automotive ees to the industry for vehicles / components / with stated methods and otive standards to global stry, several facility and ngine Design/Simulation ts, new techniques and analysis, Vehicle Crash er control, Particulate tion. India to be awarded ISO Hydrogen blended CNG) ht commercial vehicles. ate alternative for fossil t otive industry regarding nponents. utomotive industry. , a separate division of g (Laboratory as well as tous roles including road programmes combat roles. for various roles.	03 marks for each



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		chemical recycle and after-treatment.	
		9. Development of light unmanned aerial vehicles for low intensity conflict	
		operations.	
		10. Development of multi feed gasification with poly generation technology.	
		11. Testing of military and commercial vehicles and engines for design validation	
		and performance evaluation including emission tests	
	b)	Explain the meaning of Taxation with objectives.	06
		Taxation:	
		Taxes in India are levied by the Central Government and the state governments.	
		Some minor taxes are also levied by the local authorities such as the Municipality. A	
		Tax is nothing but a compulsory contribution to nation.	
		Objectives of taxation:	3 marks
	Ans	1. Raising the revenue of government.	each
		2. Economical growth of state and nation.	cach
		3. Reduction in unemployment.	
		4. Reduction in regional disparities.	
		• •	
		5. Distributional justice to all the people.	
	<b>c</b> )		06
	c)	Explain vehicle schedule and Trip	06
	c)	Explain vehicle schedule and Trip	06
	c)	Explain vehicle schedule and Trip         1. Vehicle scheduling:	06
	<b>c</b> )	Explain vehicle schedule and Trip         1. Vehicle scheduling:         i) It is a trip or trips assigned to be performed by a bus during a day.	06
	<b>c</b> )	Explain vehicle schedule and Trip         1. Vehicle scheduling:         i) It is a trip or trips assigned to be performed by a bus during a day.         ii) Vehicle schedule fixes the conditions of the vehicle operation on a route	06
	<b>c</b> )	<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ul> <li>i) It is a trip or trips assigned to be performed by a bus during a day.</li> <li>ii) Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> </ul> </li> </ul>	06
	<b>c</b> )	<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ul> <li>i) It is a trip or trips assigned to be performed by a bus during a day.</li> <li>ii) Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>iii) Since the passenger low flow expresses the transport demand on the line for the</li> </ul></li></ul>	06
	c)	<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ol> <li>It is a trip or trips assigned to be performed by a bus during a day.</li> <li>Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>Since the passenger low flow expresses the transport demand on the line for the entire day, bus schedule give a picture of the movement of vehicles on the route. Iv)</li> </ol></li></ul>	06
	c) Ans	<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ol> <li>It is a trip or trips assigned to be performed by a bus during a day.</li> <li>It is a trip or trips assigned to be performed by a bus during a day.</li> <li>Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>Since the passenger low flow expresses the transport demand on the line for the entire day, bus schedule give a picture of the movement of vehicles on the route. Iv)</li> <li>The important aim of a bus schedule is to satisfy the demand for transport</li> </ol> </li> </ul>	06 3 marks
		<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ul> <li>i) It is a trip or trips assigned to be performed by a bus during a day.</li> <li>ii) Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>iii) Since the passenger low flow expresses the transport demand on the line for the entire day, bus schedule give a picture of the movement of vehicles on the route. Iv)</li> <li>iv) The important aim of a bus schedule is to satisfy the demand for transport combined with efficient use of vehicle resources.</li> </ul> </li> </ul>	
		<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ul> <li>i) It is a trip or trips assigned to be performed by a bus during a day.</li> <li>ii) Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>iii) Since the passenger low flow expresses the transport demand on the line for the entire day, bus schedule give a picture of the movement of vehicles on the route. Iv)</li> <li>iv) The important aim of a bus schedule is to satisfy the demand for transport combined with efficient use of vehicle resources.</li> </ul> </li> <li>2. Trip –</li> </ul>	3 marks
		<ul> <li>Explain vehicle schedule and Trip</li> <li>1. Vehicle scheduling: <ul> <li>i) It is a trip or trips assigned to be performed by a bus during a day.</li> <li>ii) Vehicle schedule fixes the conditions of the vehicle operation on a route throughout the day.</li> <li>iii) Since the passenger low flow expresses the transport demand on the line for the entire day, bus schedule give a picture of the movement of vehicles on the route. Iv)</li> <li>iv) The important aim of a bus schedule is to satisfy the demand for transport combined with efficient use of vehicle resources.</li> </ul> </li> <li>2. Trip – <ul> <li>i) It means the journey between two terminals i.e. from start of travel to the final</li> </ul> </li> </ul>	3 marks
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