

(Autonomous)

(ISO/IEC - 27001 - 2013 Certified)

SUMMER-18 EXAMINATION Model Answer

Subject Name: Transport Management

Subject Code: 17616

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. N.	Answers	Marking Scheme
01		Attempt any FIVE of the following:	20
	(a)	Define registration of motor vehicle. How you apply for registration	04
	Ans	Registration of motor vehicle: It Means certificate issued by a respective authority to the effect that a motor vehicle has been duly registered in accordance with the provision made by motor vehicle ACT (MVA) Procedure to register a newly purchased car. 1) To obtain the registration certificate for motor vehicle, the applicant is required to apply in Form- 20 to registering authority within 7 days from the date of purchase of vehicle. The owner of	02
		vehicle is required to fill up all the information and submit the same to the authority in whose region the applicant resides. 2) The application must be accompanied with following documents — a) Sale certificate in Form No. 21 given by dealer. b) Roadworthiness certificate in Form No.22, 22 — A form the manufacturer. c) Purchase invoice (for vehicle attracting life time tax). d) Temporary registration if any. e) Valid insurance certificate.	02
		f) Address proof. g) Octroi receipt if registering in municipal limits. h) PAN number or Form No. 60 in two copies. i) Customs clearance certificate in case of imported vehicles along with licence and bond if any. j) Bill of entry for imported vehicle. k) Appropriate fees After fulfilment of above document the owner of vehicle is required to produce the vehicle before the registering authority for inspection or for verification. The registering authority verifies the entries made in Form 20 with actual particulars of the vehicle. Once the registration formalities are over, a registration number is allotted to the vehicle and registration book is given to the owner.	



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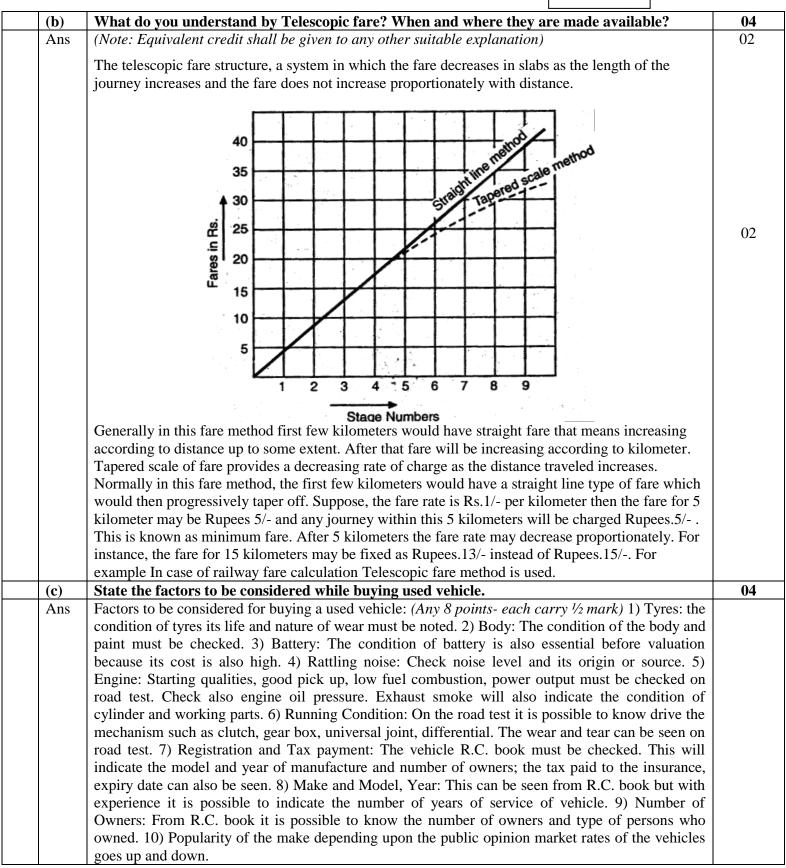
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	State skills.	•	es of Advance techniques traffic	nanagement for safe and effective driving	04
Ans	Objectives of Advance techniques traffic management for safe and effective driving skills:				
	(Any 04)				
	1.			nmunication technologies and concepts to	
			ffic efficiency and improve environ	* •	
	2.			nhance safety and comfort for drivers.	
	3.		cation information based technolo		
	4.	-		ure, traffic management and traveler	
	_			provement in the safe and efficient.	
(a)			e, develop, analyses and integrate n		04
(e) Ans			een the working of BEST and Maredit shall be given to any other su		(Any 0
AllS	(Ivoie	. Единчанет С	reau snau be given to any other st	mable explanation)	points
	Sr. No.	Points	Working of BEST	Working of MSRTC.	
	01	Governed	Working under autonomous	Working under state government	
		by	governing body		
	02	Purpose	BEST is to work for earning	MSRTC is to work for social needs.	
		T ur pose	profit and satisfy social needs	1125111 0 10 00 000111 101 0001111 1100005	
	03	Area /	Works in Mumbai and its sub	Works in entire state of Maharashtra.	
		territory	urban area		
	04	Limit of	BEST works within the	MSRTC services are within	
		operation	corporation Limit of Thane,	Maharashtra and inter state.	
			Corporation Limit of Thanc,	Transmitted that states	
		1	•	1.1	
(f)	State	_	Mumbai, Kalyan-Dombiwali		M
(f)		'VRDE'. De	Mumbai, Kalyan-Dombiwali scribe its role for transport unde	rtaking.	04
(f) Ans	VRD	'VRDE'. De E states for ve	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal	rtaking. blishment. The VRDE plays an important role	
` /	VRD in trai	'VRDE'. De E states for vensport Industr	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal	rtaking.	04
` /	VRDI in trai launci	'VRDE'. De E states for vensport Industrhing.	Mumbai, Kalyan-Dombiwali scribe its role for transport under thicle Research Development Estaly. At VRDE all types of tests are continuous and the second sec	rtaking. blishment. The VRDE plays an important role	
` /	in trailaunc	'VRDE'. De E states for ve nsport Industr hing. of VRDE: (A	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the compared to t	rtaking. blishment. The VRDE plays an important role onducted on Automobile vehicle before	
` /	in trailaunce Role 1. Its	'VRDE'. De E states for ve nsport Industr hing. of VRDE: (A primary funct	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the compared to t	rtaking. olishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design,	
` /	in trailaunci	'VRDE'. De E states for ve nsport Industr hing. of VRDE: (A primary funct opment, testin	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the compared to t	rtaking. olishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design, conents.	
` /	rance launce Role 1. Its devel 2. To	'VRDE'. De E states for vensport Industrhing. of VRDE: (A primary functopment, testing evaluate requirement)	Mumbai, Kalyan-Dombiwali scribe its role for transport under thicle Research Development Estal y. At VRDE all types of tests are compared to the service of	rtaking. Dishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design, conents. Il as automotive industry.	
` /	Role 1. Its devel 2. To 3. The	'VRDE'. De States for vensport Industrhing. of VRDE: (A primary functopment, testing evaluate requesting evaluate	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the service of tes	rtaking. Dishment. The VRDE plays an important role conducted on Automobile vehicle before motive industry regarding design, conents. Il as automotive industry. T), a separate division of VRDE, provides	01
` /	randamental National	'VRDE'. De E states for ve nsport Industr hing. of VRDE: (A primary funct opment, testin evaluate reque e National Ce top solution to	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the compared to t	rtaking. Dishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design, conents. Il as automotive industry. T), a separate division of VRDE, provides well as Road testing).	01
` /	Role 1. Its develo 2. To 3. The one st 4. De	'VRDE'. De E states for ve nsport Industr hing. of VRDE: (A primary funct opment, testin evaluate reque e National Ce top solution to velopment of	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the property of tests are compared to the p	rtaking. Dishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design, conents. Il as automotive industry. T), a separate division of VRDE, provides well as Road testing). various roles including road mobile	01
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` /	Role 1. Its develog. To 3. The one standard for the stand	'VRDE'. De 'States for ve nsport Industr hing. of VRDE: (A primary funct opment, testir evaluate reque e National Ce top solution to velopment of hers and supp velopment of velopment of velopment of velopment of ter-treatment velopment of evelopment of	Mumbai, Kalyan-Dombiwali scribe its role for transport under chicle Research Development Estal y. At VRDE all types of tests are compared to the property of tests are compared to the p	rtaking. Olishment. The VRDE plays an important role onducted on Automobile vehicle before motive industry regarding design, conents. Il as automotive industry. T), a separate division of VRDE, provides well as Road testing). various roles including road mobile ogrammes les. prious combat roles. riants for various roles. r nuclear, biological and chemical recycle low intensity conflict operations.	01



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Define (Any four)	04
	V 4
(i) Articulated vehicle: It is a vehicle to which a semitrailer is attached.	(Any
(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.	four- 01 mark each)
(iii) Private service vehicle: Private Service Vehicle means a motor vehicle constructed or adapted to carry more than six persons excluding the driver and ordinarily used by or on behalf of the owner of such vehicle for the purpose of carrying persons for, or in connection with, his trade or business otherwise than for hire or reward but does not include a motor vehicle use for public purpose.	
(iv) Maxi-car: means any motor vehicle constructed or adapted to carry more than six passengers, but not more than twelve passengers, excluding the driver, for hire or reward.	
(v) Invalid carriage: it is specially designed vehicle and constructed vehicle which is for the use of person suffering from some physical defect or disability and utilized solely for such persons.	
(vi) P.U.C.: PUC is a certification mark that is provided to vehicles that undergo the PUC Test successfully. The certification indicates that the vehicle's emissions are in alignment with standard pollution norms and are not harmful to the environment. All vehicles on Indian roads are mandeted to certification.	
	16
	04
	04
Exemption from permit includes vehicles which are purchased by state government and central government. These vehicles are not connected with any commercial enterprises. Exemption from permit also includes vehicles which are utilized by staff members of state transport authority and Regional Transport Authority. The following mentioned vehicles are exempted from tax being used for state Government, Central Government, Municipal Corporation, as well as work for social, cultural, educational, agricultural activities. Vehicles exempted from Tax Payment: 1) Vehicles belong to state government, local self-government, Municipal Corporation etc. 2) Ambulance working on no loss no profit basis. 3) Invalid carriage. 4) 5) Vehicles belong to Orchestra, Tamasha Mandal, Drama Theatre, etc. 6) Vehicles under non use. 7) Tractors and traliors used for agriculture purpose.	04
	 (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. (iii) Private service vehicle: Private Service Vehicle means a motor vehicle constructed or adapted to carry more than six persons excluding the driver and ordinarily used by or on behalf of the owner of such vehicle for the purpose of carrying persons for, or in connection with, his trade or business otherwise than for hire or reward but does not include a motor vehicle use for public purpose. (iv) Maxi-car: means any motor vehicle constructed or adapted to carry more than six passengers, but not more than twelve passengers, excluding the driver, for hire or reward. (v) Invalid carriage: it is specially designed vehicle and constructed wehicle which is for the use of person suffering from some physical defect or disability and utilized solely for such persons. (vi) P.U.C.: PUC is a certification mark that is provided to vehicles that undergo the PUC Test successfully. The certification indicates that the vehicle's emissions are in alignment with standard pollution norms and are not harmful to the environment. All vehicles on Indian roads are mandated to carry a valid PUC certification. Attempt any FOUR of the following: How the exemptions granted to vehicles by government from permit? Answer: (Note: Equivalent credit shall be given to any other suitable explanation) Exemption from permit includes vehicles which are purchased by state government and central government. These vehicles which are utilized by staff members of state transport authority and Regional Transport Authority. The following mentioned vehicles are exempted from tax being used for state Government, Central Government, Municipal Corporation, as well as work for social, cultural, educational, agricultural activities. Vehicles belong to state government, local self-government, Mun



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(b)	Which factors should be considered for valuation of old vehicles?	04
Ans	Factors to be considered for valuation of old Vehicle: (Any 04-1 mark for each point)	
	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. 6) Kilometres driven (you can find this on	
	the odometer on the dashboard)	
(c)	Write down importance of warranty system.	04
Ans	Importance of warranty system: A warranty is usually a written contract for a product and	
	declares the maker's responsibility to repair or replace a defective product or its parts. When you	
	make a major purchase, the manufacturer or seller makes an important promise to stand behind the	
	product. Some warranties provide coverage only if you maintain or use the product as directed. For	04
	example, a warranty may cover only personal uses as opposed to business uses of the product.	
	Make sure the warranty will meet your needs. In warranty system defective parts are replaced or	
	repaired in stipulated time. The cost is not charged from the customer. These expenses of repairs	
	are born by the manufacturer. Sometimes with the understanding of parent company the warranty	
	claims are offered to their customers even after expiry of warranty period.	
	If you have purchased any product under warranty and found any defect within warranty period,	
	contact the retailer and try to resolve the problem. Otherwise Contact your state or local consumer	
	protection office - if you can't resolve the situation with the seller or manufacturer. If all else fails,	
	you may want to consider a lawsuit.	
(d)	What is permit? State its types. Explain any one of them.	04
Ans	permit means a permit issued by a State or Regional Transport Authority or an authority	01
	prescribed in this behalf under this Act authorising the use of a motor vehicle as a transport	
	vehicle	
	Types of Permits.	
	1. Stage carriage permit	
	2. Contract carriage permit	01
	3. Private service vehicle permit	
	4. Goods carriage permit	
	5 Ni. d 1	
	5. National permit	
	6. All India Tourist permit	
	6. All India Tourist permit	
	6. All India Tourist permit (Any one type of permit explanation- 02 marks)	
	6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits:	
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	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. The permit holders can operate their bus under their allotted routes for picking up 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. The permit holders can operate their bus under their allotted routes for picking up passengers from one place to another. 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. The permit holders can operate their bus under their allotted routes for picking up passengers from one place to another. All private stage carriage buses come under this category Contract Carriage Buses Permits: 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. The permit holders can operate their bus under their allotted routes for picking up passengers from one place to another. All private stage carriage buses come under this category Contract Carriage Buses Permits: This is the most common type of permit used for hire and reward purpose. 	
	 6. All India Tourist permit (Any one type of permit explanation- 02 marks) Stage Carriage Permits: State Transport Authority announces scheme for grant of stage carriage permit from time to time, depending upon the requirement of buses on different route of the city. These permits are issued under section 72 of Motor Vehicles Act, 1988. The permit holders can operate their bus under their allotted routes for picking up passengers from one place to another. All private stage carriage buses come under this category Contract Carriage Buses Permits: 	



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of passengers should also be available with the driver of bus.

- The permit holder cannot pick passengers other than those mentioned in the list.
- Such types of buses are also known as Chartered Buses.
- These permits are issued under section 74 of Motor Vehicles Act, 1988.
- The applicant has to apply on form PCA along with other formalities.

Temporary permit

- A temporary permit is issued by STA under Section 87 of Motor Vehicles Act, 1988 to transport vehicle for a limited period, enabling the vehicle to go outside the state for the following reasons:-
- 1. For the conveyance of passengers on special occasions such as to and from fairs and religious gatherings, or
- 2. For the purposes of a seasonal business, or
- 3. To meet a particular temporary need, or Pending decision on an application for the renewal of a permit.

Goods Carrier Permits:

- Such permit is granted under Section 79 of the Motor Vehicles Act, 1988, to a goods vehicle operating within the state.
- Permits granted to a particular vehicle for carrying a particular load has to be plied for that particular area only.

National Permits:

- National permits are issued to goods vehicles to enable them to go outside the home state.
- National Permit is issued for a minimum of four continuous states (including the home state).
- For obtaining such permits the maximum age of a particular vehicle should not exceed 12 years. However, maximum age in case of a multi-axle vehicle should not exceed 15 years.
- For the issue of National Permit, applicant has to apply on form 46 and 48 along with other formalities

All India Tourist Permit (AITP):

- This permit is given to luxury buses which have white colour with a blue ribbon of five centimetres width at the center of exterior of the body and the word 'Tourist' shall be inserted on two sides of the vehicle within a circle of sixty centimetres diameter.
- A tourist permit shall be deemed to be invalid from the date on which the motor vehicle covered by the permit completes 9 years in the case of Motor Cab and 8 years where the motor vehicle is other than a motor cab, unless the motor vehicle is replaced by another, the latter vehicle shall not be more than 2 years old on the date of such replacement.
- The seating layout shall be two and two or one and two or one and one on either side, all seats facing forwards.
- The Vehicles should also have other facilities like public address system, drinking water, push full back seats, fans, curtains, a separate driver cabin etc.
- The applicant has to apply on form 45 & 48 along with other formalities.

Every motor vehicle or motor cab under the Authorization Certificate issued under these rules shall exhibit the words 'All India Tourist Permit' on the back of the motor vehicle in contrasting colours, so as to be clearly visible



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_	(e)	Differ	entiate between Rural and Urban trar	sport. (Any 4 points)	04
	Ans	Sr.	Rural transport	Urban transport	
		No.			
		01	Road conditions are not suitable for	Road conditions are good hence suitable for	
			vehicle as well as for passenger	vehicle as well as for passenger	
		02	No. of passengers are less	No. of passengers are less	
		03	Utilization of vehicle is less	Utilization of vehicle is more	
		04	More maintenance cost	Less maintenance cost	
		05	Highly skilled technicians are not	Highly skilled technicians available	
	(f)	XX/lo = 4	available	a for a asidomtal makiala?	0.4
	(f)		is procedure of claiming compensation		04
	Ans	_		is damaged or nominee of the person who have got	
				a appropriate form along with the duly filled	0.4
				Enquiry Officer of the district in which the accident	04
				hs from the date of accident 2. In case of all major	
				visit the workshop for inspection of the vehicle and	
				r and / or repairer. 3. Provide copies of the legal	
			· · · · · · · · · · · · · · · · · · ·	ort or certificate of injury to the insurance company	
				uiry Officer decides who the right claimant is and	
			*	ent commissioner who issues the sanction order of	
		1	aim in Form IV to the insurance company	<i>I</i> .	
			npt any FOUR of the following:		
	(a)		is certificate of fitness and its validity		16
	Ans			e prescribed form, showing that vehicle is	
				ications and requirements of motor vehicle act. If	02
				n the vehicle is inspected physically by Transport	
				ess. The Certificate of Fitness is issued in Form 38.	
			ertificate while remains effective, be valid		
				vehicle must possess a valid fitness certificate,	
			•	s valid for first two years and then it has to be	02
		renew	red every year after inspection of vehicle	by the concerned RTO. The fitness certificate for	
		motor	cars and motorcycles is valid for 15 year	rs and then renewed for next 5 years.	
	(b)		in the significance of Bus Depot with l		04
	Ans	,	ble Explanation & Layout should get full	*	
				portant roles for a region that chooses bus mode in	
				attracts many attentions in the world of real estate	02
			•	facility that involves considerable land-use, long-	
				buildings. The bus depot carries acceptable overall	
				ansport operator body, reaches the marked and	
		_	· · · · · · · · · · · · · · · · · · ·	ong time perspective. It is optimal for the important	
				he owner of public transport (e.g. a county) and its	
				d optimal location is the desirable situation. It has	
				nsion and right facilities to accommodate people and	
		buses	activity continuously in short and long p	eriod.	
		1			



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SUMMER-18 EXAMINATION

Model Answer

Subject Name: Transport Management

	O Tube Well Water Tank Washing B C D Security Light Tower A denoitorative Block Administrative Block Administrative Block	02
	General layout of vehicle bus depot	
		0.4
(c A	(Types of records -2marks, Description of any two – 2 marks each) Following are the types of records maintained in transport organization: 1. Log Book 2. Trip operational sheet (TOS) 3. Vehicle ledger 4. Truck history card 5. Monthly Operational Performance Statement (MOPS) 6. Goods consignment note 7. Trip sheet 1) Log Book: Each vehicle has a log book which contains the details about the running time for a trip and allied factors. The driver of motor vehicle fills or updates log book regularly. The data like the station, date, start time, stop time, idle time due to rest, maintenance, fuelling, loading and unloading of goods etc and total distance covered, are written in the log book by the driver. At the end of trip, the driver produces the log book along with other documents. The log book gives the clear picture about a trip. The log book records play an important role in deciding the routes, scheduling time-table and economy of goods transport. The format of log book is given below-	04
	2) Trip Operational sheet (TOS): Trip operation sheet gives detailed information about a trip like loading (Dispatching) and unloading (destination) points, distance between stations, number of days taken for journey, Number of idle days, Fuel consumption, lubrication consumption, Repairs	



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		and spares, miscellaneous accessories, Fines and expenses incurred in journey, Commissions and	
		general expenses and Government and municipal charges etc.	
		3) Vehicle Ledger: The data obtained from Trip Operational Sheet (TOS) is posted in a ledger	
		called a vehicle ledger. The trip is indicated by a trip number which is also known as T.O.S No.	
		Additional columns are provided for gross profit before vehicle tax, depreciation and tyre cost. The	
		balance of cash available is given in last column. Thus the vehicle ledger is collective record of the	
		trips exposing the financial aspect of transportation.	
		4) Truck History Card: The performance of truck is evaluated from the truck history card this	
		card gives detailed information about the mileage, tax paid, no. of repairs etc. Thus the truck	
		history card helps in deciding whether scrap the truck or not.	
		5) Monthly Operational Performance Statement (MOPS): The Performance of vehicle during a	
		month is revealed by the monthly operational performance statement. The actual working of the	
		vehicle is tabulated in the M.O.P.S. and is compared with standard that have been laid down for it	
		performance. The variations in performance are noted and the reasons for are given. The owner can	
		give attention to those fields where the performance is very poor and immediate corrective action is	
		taken. Thus M.O.P.S. gives the retrospective effect and point out the reasons inefficiency. <i>Note:</i>	
		Equivalent credit shall be given to any other suitable records.	
	(d)	State various functions of traffic signs with its different categories.	04
	Ans	(Note: Equivalent credit shall be given to any other suitable explanation)	UT
	7 1115	(Note: Equivalent credit shall be given to any other suitable explanation)	
		Functions of traffic signs:	02
		1. Traffic signs or road signs are signs erected at the side of or above roads to give instructions or	02
		provide information to road users.	
		2. Traffic signs are devices placed along, beside, or above a highway, roadway, pathway, or other	
		route to guide, warn, and regulate the flow of traffic, including motor vehicles, bicycles,	
		pedestrians, equestrians, and other travellers.	
		Different categories of traffic signs:	02
		1. Danger warning signs	02
		2. Priority signs	
		3. Prohibitory or restrictive signs	
		4. Mandatory signs	
		5. Special regulation signs	
		6. Information, facilities, or service signs	
		7. Direction, position, or indication signs	
		8. Additional panels	
	(e)	Draw and explain a universal organizational set up of Automobile Industry.	04
	Ans	(Any suitable structure and explanation shall be given due credit)	
		Organizational structure refers to the way that an organization arranges people and jobs so that its	
		work can be performed and its goals can be met. When a work group is very small and face-to-face	
		communication is frequent, formal structure may be unnecessary, but in a larger organization	
		decisions have to be made about the delegation of various tasks. Thus, procedures are established	02
		that assign responsibilities for various functions. It is these decisions that determine the	
		organizational structure.	
		First, the organization's work must be divided into specific jobs. This is referred to as the division	
		of labor. Second, unless the organization is very small, the jobs must be grouped in some way,	
		which is called departmentalization. Third, the number of people and jobs that are to be grouped	
		together must be decided. This is related to the number of people that are to be managed by one	
		person, or the span of control—the number of employees reporting to a single manager. Fourth, the	
L		person, or the span of control and named of employees reporting to a single manager. I outtil, the	



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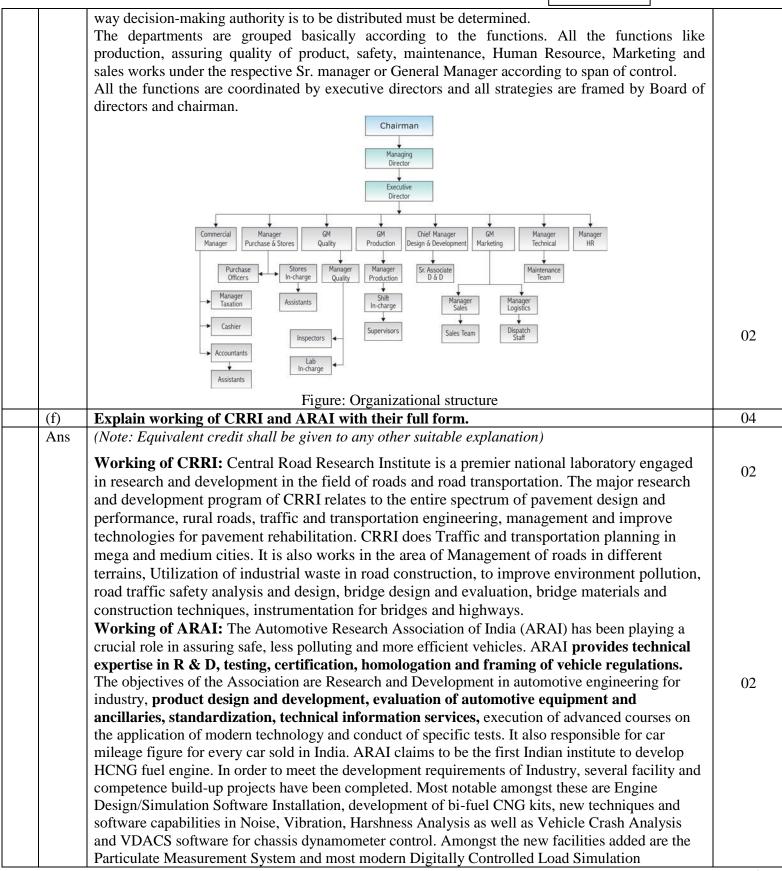
SUMMER-18 EXAMINATION

Model Answer

Subject Name: Transport Management

Subject Code:

17616





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SUMMER-18 EXAMINATION

Model Answer

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04		Attempt any FOUR of the following:	16
J-F	(a)	What are different conditions of RTA to grant a stage carriage permit?	04
	Ans	Following are the different conditions of RTA to grant a stage carriage permit: (Any 04-1	0.1
		mark each)	
		1. The vehicle should be used in a specified area only.	
		2. According to RTA the stage carriage should be commenced with effect from a specified	
		date.	
		3. Minimum or maximum number of strips specified on the form should be followed.	
		4. The copy of time table given by RTA should be exhibited in the vehicle.	
		5. Passengers or goods will not be taken up or set down except as be specified.	
	(b)	List different passenger amenities necessary to provide in Bus Transport operation.	04
	Ans	Following amenities and infrastructural facilities are to be provided in a depot: (Any 8 points-	
		each point carry ½ Mark)	
		1. Waiting hall for passenger	
		2. Rest room for passenger	
		3. Canteen facility	
		4. Drinking water	
		5. Toilet and wash room	
		6. Parking for two wheelers and four wheelers	
		7. Cycle stand	
		8. Mobile charging facility	
	(c)	Describe the procedure of change of Registration Mark.	04
	Ans	(Note: Equivalent credit shall be given to any other suitable explanation)	
		Registration of vehicle which is arrived from other state or Assignment of new registration mark (RMA) when vehicle is registered in one state and it is utilized in other state, then it is required to get new registration number. The condition is that the vehicle is running in other state more than one year. For getting new registration number the "NO OBJECTION CERTIFICATE" from original registration authority of previous state. Application of change of Registration Mark: 1) Fill up Application form numbers 20, 26, and 27. 2) Fill up form no. 29 ad 30 in case of transfer of ownership. 3) Fill up form no. 33 in case of change of address only. 4) Fill up form no. 28 to get NOC (No- objection certificate). For that it is required to affix chassis print from the original registering authority along with consent from financier. 5) Fill up forms TCA and TCR in case of transport vehicles. 6) It is required to reproduce proof of entry tax in case vehicle has arrived within 30 months of date of its previous / old registration. 7) It is required to take / prepare affidavit from the owner (on 100 Rs/ 500 Rs stamps) of the vehicle stating that vehicle is not involve in any accident crime or theft.	04
		8) It is required to reproduce all valid documents of the vehicle. 9) Payment of repaired fees. 10) To reproduce vehicle insertion at R.T.O office. 11) Fill up form FT and AT.	



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Model Answer

Subject Name: Transport Management

(d)	Differe	ntiate between Maharashtra State Trai	asport and Private Bus Services. (Any 4 points)	04
Ans	Sr.	Maharashtra State Transport	Private Bus Services	
	No.	services		
	01	MSRTC is run by government of	Private Bus Services is run by individual	
		Maharashtra	owner (sole proprietor) or private company.	
	02	Overhead expenses are large.	Overhead expenses are less.	
	03	MSRTC is run for social benefit	Private Bus Services is run for profit only	
	04	Because of large fleet management	Because of small fleet management quality of	
		quality of service and delivery is	service and delivery is better.	
		average.		
	05	Fare is predefined considering social	Fare is decided and may vary at any time as	
		aspects.	per the wish of owner.	
(e)	Explain	n economic factors that influence the go	od transport operation.	04
Ans		_	nce the good transport operation: (Any 04)	
		Cost of fuel		
		Cost of labour		
	3.	Cost of maintenance of vehicle		
	4.	Bank Loan Interest if vehicle is purchase	d on bank loan scheme	
		Depreciation value of vehicle		
(6)	_	Market inflation rate		0.4
(f)		nd explain the basic elements of transpo		04
Ans		lements of transport Management: (Ang ket potential: Type of goods/ passengers,		
		etion of vehicle: Type of load, Class of pa		
		nization setup: Govt., Semi Govt., Priva		
	_	all compliance: Documents required as per		
		ies of transport organization: Policies to		
			OR	
	1. Mar	ket potential: It includes - Type of goods/	passengers, Period of use, Probable competition	
	2. Sele	ction of vehicle: It depends upon Type of	load, Class of passenger, Type of service. a.	
	Depend	ling upon load to be carried, road conditio	ns, working conditions, type of goods to be	
	carried	etc. the appropriate vehicle to be selected.	i.e. If a vehicle is to be selected of transporting	
			rehicles. b. The selection of chassis length mainly	
			ditions. MSRTC has preferred the buses with	
			ecause the roads in that region are narrow and	
			hence to take the turn, the buses with short	
		-	ganization setup: Govt., Semi Govt., Private. 4.	
	Legal c	ompliance: Documents required as per M	VA like a. Registration certificate b. Tax	
	certifica	ates c. Insurance certificate d. PUC certificate	cate e. Permits etc 5. Policies of transport	
	organiz	ation: Policies towards passengers and em	ployees. a . Policies towards passenger:- 1.	
	Luxury	service, 2. Concession Pass for students a	and senior citizen, 3. Express service on special	
	route, 4	. Night service on special route, 5. Vehicl	es for Special private Tours/Yatras/functions/	
	Educati	onal tours on public demand, b. Policies t	oward employees – 1. Bonus for employees –	
		-	loyee has performed in addition to the employee's	
	_	•	2. Overtime Allowances – Overtime allowance is	
			f the prescribed hours of work on any working	
	day and	l includes work done on Sundays or any o	ther holidays 3. Health insurance: To provide the	



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		17010	
		health insurance to the employee and his family to maintain healthy working atmosphere. 4. Free Travel packages: The state transport undertaking like MSRTC provides such packages to their employees and their family for specific period per year.	
		5. Employee Training: Transport organizations provide training to employees to upgrade their skills as per need.	
05		Attempt any FOUR of the following:	16
0.5	(a)	Explain meaning of Taxation with its objectives.	04
	Ans	Taxation: (2 marks)	0.1
		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: (Any two objectives – 1 mark each) 1. Raising the revenue of government. 2. Economical growth of state and nation. 3. Reduction in unemployment. 4. Reduction in regional disparities. 5. Distributional justice to all the people.	
	(b)	Explain the Rules of Central Government regarding Transport and storage of Petroleum Products.	04
	Ans	(Note: Equivalent credit shall be given to any other suitable explanation)	
		Rules of Central Government regarding Transport and storage of Petroleum Products: (Any 4 points)	
		1. A supplier of oil/petroleum product must arrange a set of routes to replenish the inventories of asset of customer.	
		2. While deciding routes for delivery of petroleum product customers on the same routes are decided accordingly the transport vehicle is arranged.	
		3. No one shall import, transport or store any petroleum except in accordance with the rules made under Section 4.	
		4. Central Government may make rules regulating import, transport and storage of petroleum prescribing various forms and conditions of licences, and also conditions subject to which petroleum may be stored.	
		5. No one shall produce, refine or blend petroleum except in accordance with rules made under it's sub-section (2). Under this Sub-Section (2) of the Act, the Central Govt. may make rules prescribing the conditions to which petroleum may be produced, refined or blended.	
	(c)	State the factors to be considered while buying a new Vehicle.	04
	Ans	The factors to be considered while buying new vehicle: (Any 4 points -1 mark each) a) Features and quality of new vehicle: Checkout the features offered and additional optional fittings, which suits your lifestyle. Checkout the quality factors of new vehicle like mileage, fuel storage capacity, option of using alternative fuels like CNG/LPG, also safety features like airbags, antilock braking system etc. b) Ex-showroom price and on road price: There is huge difference between on-road price and ex-showroom price. Ex-showroom price is the basic price which does not include Insurance, RTO registration charges, extended warranty if any and sometimes the Municipality Road tax etc. After adding all these you will get on road price. c) Use of vehicle: Select the vehicle on basis of for what purpose you are buying a new vehicle (Personal use, Commercial use, expected seating capacity etc.)	
		d) Inspecting the vehicle: Before purchasing the vehicle inspect the vehicle for whether the features are as per your demands or not.	
		e) Gather expert reviews: Read expert comments and reviews on the vehicle, you are buying. Do	



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Subj	ect Name: Transport Management Subject Code: 1/616
	the comparative study with other same class of vehicles to checkout for added benefits. Enquire
	about extended warranty as well as regular service contract.
	f) Test drive the vehicle: Analyze and be sure that the vehicle has characteristics that you are
	looking for. Inspect and feel carefully all the interior and exterior such as bonnet, of vehicle.
	Checkout your vehicle thoroughly including braking, electrical, steering system etc before driving
	at home.
	g) When and where to buy: 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.
(d)	Describe the role of GPS and Navigation system for vehicle and traffic Control Management.
Ans	Role of GPS and traffic navigation system: (Any 4 points - 1 mark each)
	1. To locate vehicle: A vehicle tracking system enables the fleet operator to find out the location of
	the vehicle throughout the journey of the vehicle, against time. Most transporters use GPS to locate
	their vehicles.
	2. Fleet Management: GPS vehicle tracking system also helps the fleet owners to see the vehicle's
	current data like its mileage, speed, engine capacity, direction of travel etc. for the fleet owners to
	manage their fleets and improve their business strategies
	3. Vehicle Security: Vehicle tracking system can be used to protect their vehicles from theft. The
	system shows the location of the vehicle and hence helps to recover your stolen vehicle. It is even
	possible to stop the vehicle's engine remotely
	4. Teens Safety: Vehicle Tracking System can also be used by the parents to ensure the safety of
	their teen-agers driving the vehicle. System gives you the report of where the vehicle went, its
	speed, how long it stopped and etc
	5. School Buses : Vehicle Tracking System proves beneficial for schools to track the bus locations.
	This system will be helpful to keep an eye on the movement of school buses.
	6. Apart from utilizing the data generated by the vehicle tracking system for enforcing the
	schedule of the bus, this data also provides important inputs for decision making.
	7. The system facilitates computation of exact distance travelled in a given time span,
	computation of the speed of the bus at a given location, analysis of the time taken by the bus to
	cover certain distance.
	8. It becomes a very powerful tool in case the Transport Corporations are hiring private buses,
	as computation of the distance travelled, based on which payments are made becomes totally
	objective.
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(e)	Different	tiate between RTA and STA (any four p	points)	04
Ans	Sr.No		RTA	
	1	It is the State Transport Authority	It is the Regional Transport Authority	•
	2	STA give effect to the directives	RTA decides the policies to control road	
		issued under section 67 to control	Transport as per the directives of STA	
		road transport by state	Throughout the region.	
		Government throughout the state.		
	3	To co-ordinate and regulate the	To fix the fares for the auto-rickshaws, taxies	
		activities and policies of the Regional	etc. from time to time throughout the region	
		Transport Authorities		
	4	To conduct not less than two meetings	To conduct not less than six meetings in a year	
		in a year	and do the business regarding control of road	
			transport	
	5	Chairman- Transport secretary	Chairman- Divisional/Revenue Commissioner	
	6	Members- I.G.(Police), Chief	Members- Deputy I.G.(Police),	
		Engineer of PWD, Few MLA's and	Superintending Engineer of PWD, Few	
		Two non-government Representatives	MLA's and One non-government representative	
	7	Secretary - Transport commissioner	Secretary – Regional transport officer	
		or Joint transport commissioner		
	8	To consider applications for grant,	To consider applications for grant and renewal	
		renewal, and transfer of permit on	of license and permit within the region	
		interstate routes		
<u>(f)</u>		procedure of hiring of a Truck.		04
Ans		re to hire a truck for transport operatio		
		booking office obtain the stock of goods to	gh which consignments are to be dispatched.	
			ng calculate the number of vehicle required for	
	hire etc.	is the possionness of adjustments in loading	ing canculate the number of vehicle required for	
		et approved truck suppliers for each destina	ation for the availability of truck and rates	
		t least five suppliers.		
		I their name and rates in register.		
	6. Obtain	from other transport companies the rates	at which they hire out the trucks and cross	
		e rates of the suppliers.		
		**	ompt and whose rates are competitive and	0
	economic		aut of coods	
		about the terms and conditions for transp The goods should be transported within the		
	-	•	revented by careful handling. The safety of the	
		es the customer faith in the organization.	revented by careful manding. The safety of the	
		eity: An efficient transport system must ha	ve an adequate capacity for all sorts of	
	demands.		to an adoquate capacity for an sorts of	
		ency: The frequency of a service is related		
	_	• • •	when the frequency of operation is evenly spread.	
		nsibility: The transport operator must take		
	consignm	nent, should compensate for the loss or dar	mage to the goods, if any when the goods are in	
	his custoo		I I	



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Model Answer

Subject Name: Transport Management

Subject Code: 17616

)6		Attempt	any FOUR of the	following:			1
	(a)	Describe	the taxation stru	cture of passengers and	goods transport	vehicles.	0
	Ans	(Note: Equivalent credit shall be given to any other suitable explanation)					0
		Tax act w Taxation	v.e.f. 1958 structure of passer	nsed in Maharashtra state ngers transport vehicles: ble for non transport veh		nent of taxes as per BMV	0
		Sr. No.	Manufactured in	Class of vehicle	Purchase by individual	Purchase by company	
		Sr. No.	_	Class of vehicle Motor cycle Auto rikshaw	_	Purchase by company 21%	
			in	Motor cycle Auto	individual		
			in	Motor cycle Auto rikshaw	individual 7%	21%	

Taxes on passengers vehicles

Sr. No	Type of Permit or Class of Vehicle	Tax rate per seat per annum
1	Vehicles on contract carriage permits or running on inter state routes	
(a)	Ordinary Omni bus.	1000
(b)	Tourist vehicles or ordinary omni buses having seating arrangement as prescribe under rule 128 of CMVR, 1989.	4000
(c)	Air conditioned vehicles operated by private operators.	5000

Sr.No	Type of Permit or Class of Vehicle	Tax rate per seat per annum
2.	Inter State route permit Vehicles	
(a)	Air conditioned vehicles.	5000
(b)	Other than A/C vehicles.	4000



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION (Autonomous)

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Sr.No	Type of Permit or Class of Vehicle	Tax rate per seat per annum
3.	Special Permit Vehicles U/Sec-88(8)	
(a)	Tourist vehicles or ordinary omni buses having seating arrangement as prescribe under rule 128 of CMVR, 1989.	4000
(b)	Ordinary omni bus not covered in 1(a).	5000
(c)	Air Conditioned Vehicles.	5000

Sr.No	Type of Permit or Class of Vehicle	Tax rate per seat per annum
4.	Private Service Vehicles.	
(a)	Air Conditioned Vehicles.	1800
(b)	Other than Air Conditioned Vehicles.	800
(c)	Standees.	250

Taxation structure of goods transport vehicles:

The taxation applied for goods vehicles is mentioned in this schedule. The following table illustrates the same.

Vehicle Type and Laden Weight (in Kilograms)	Tax per year (in INR)
Less than 750	880
Equal to or more than 750 but less than 1500	1,220
Equal to or more than 1500 but less than 3000	1,730
Equal to or more than 3000 but less than 4500	2,070
Equal to or more than 4500 but less than 6000	2,910
Equal to or more than 6000 but less than 7500	3,450
Equal to or more than 7500 but less than 9000	4,180



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Equal to or more than 9000 but less than 10500	4,940
Equal to or more than 10500 but less than 12000	5,960
Equal to or more than 12000 but less than 13500	6,780
Equal to or more than 13500 but less than 15000	7,650
Equal to or more than 15000	8,510
Equal to or more than 15000 but less than 15500	7,930
Equal to or more than 15500 but less than 16000	8,200
Equal to or more than 16000 but less than 16500	8,510
Equal to or more than 16500	Inclusive of INR 8510 plus INR 375 for every 500 kilos or part thereof in excess of 16,500 kilos

Schedule A (VII):

This schedule deals with the category of vehicles that might come as an exclusion to the schedules already mentioned above. The vehicles that can be considered herein are non-transport ambulances, vehicles with temporary location in the state or with seating capacity more than 12. The following table depicts the tax amount levied on them.

Unloaded Weight of vehicle (ULW) (in kilograms)	Tax (in INR)
Less than 750	600
Equal to or more than 750 but less than 1500	800
Equal to or more than 1500 but less than 2250	900
Equal to or more than 2250 and permitted to have 6 or less passengers	1000



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	More than 2250	
	Permitted to have 6 or more passengers (limited to 12) 175	
	Permitted to have 12 or more passengers 500	
(b)	State various types of Booking and explain any one.	04
Ans	(Any 4 points- 1 mark each) Answer: Following types of booking used in transport management. 1. To Pay at Destination: In this type of booking the party has to pay the cash and take delivery. 2. Paid: In this type, party to pay the freight charges in advance. 3. Billing: In this type, party has to pay the charges on submission of bills. There are five copies of a goods consignment notes for consignee copy, consigner copy, driver's copy, head office copy for accounts and office copy. 4. Online Payment: Payment through Internet banking in advance or after the delivery of Consignment.	04
(c)	Describe the procedure of preparation of vehicle for sale by owner. State their usefulness.	04
Ans	Preparation for selling of old vehicle. 1. Give vehicle "Curb Appeal": When people come to buy car, they will probably make up their minds to buy it or not within the first few seconds. This is based on their first look at the car. So car should have "Curb Appeal". 2. Before you advertise your car for sale, make sure it looks clean and attractive: 1) Wash and vacuum the car. 2) Make sure that vehicle is free from abnormal sounds, dents, scratches. 3) If necessary, make low cost repair or replacement of parts. 4) Wipe the brake dust off the wheel covers and treat the tyres with a tyre gloss product. 5) Thoroughly clean the windows (inside and out) and all the mirrored surfaces. 6) Wipe down the dashboard and empty the ashtrays. 7) Keep all maintenance records ready to show prospective buyers. 8) If necessary, do the servicing. 3. Documentation: Following documents are required while selling the vehicle - i) Registration certificate ii) Insurance certificate iii) Insurance certificate v) NOC certificate v) NOC certificate 4. Set your vehicle price: Keep the written estimate of repair on damage if any before selling. Take a copy of service record from the dealer to assure that the vehicle is maintained properly. Set the price of vehicle that will be best negotiable.	04
(d)	How traffic is controlled in the city of Mumbai by Advance techniques?	04
Ans	(Note: Equivalent credit shall be given to any other suitable explanation) Following are the Advanced Traffic Control techniques or devices which are used to control Traffic in the city of Mumbai. (Any 04) 1. Traffic camera: A traffic enforcement camera system, consisting of a camera and a vehicle-monitoring device, is used to detect and identify vehicles disobeying a speed limit or some other road legal requirement. 2. Ramp meter: A ramp meter, ramp signal or metering light is a device, usually a basic traffic	
	light or a two-section signal (red and green only, no yellow) light together with a signal controller that regulates the flow of traffic entering freeways according to current traffic conditions.	04



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	3. Highway advisory radio: The Highway Advisory Radio System (HARS) is a low power radio station designed to provide current information to motorists about local road conditions, closures, and delays. Motorists could obtain HAR information by tuning their FM car radios to a predefined	
	frequency. 4. Roadside traffic sensors: These sensors send available traffic information to develop optimal	
	traffic control strategies addressing traffic needs at a single intersection, along an arterial or freeway, along a given corridor, or throughout a given area to the advance traffic management	
	 5. Variable speed limits: Variable speed limits that change with road congestion and other factors 6. Smart card: Smart cards can provide identity documentation, authentication, data storage, and application processing. Smart cards may provide strong security authentication for single sign-on 	
	(SSO) within large organizations. 7. Bluetooth- Bluetooth is a wireless standard used to communicate between electronic devices like mobile phones, smart phones, headsets, navigation systems, computers etc. Bluetooth road sensors are able to detect Bluetooth MAC addresses from Bluetooth devices in passing vehicles. If these sensors are interconnected they are able to calculate travel time and provide data for origin	
	and destination matrices 8. Traffic signal: These signals are used to control traffic flow at temporary traffic control zones.	
	9. Dynamic message sign: This is an electronic traffic sign often used on roadways to give travellers information about special events. Such signs warn of traffic congestion, accidents, incidents, roadwork zones, or speed limits on a specific highway segment. In urban areas, VMS are	
	used within parking guidance and information systems to guide drivers to available car parking spaces. Note: Credit shall be given to any other advance traffic devices	
(e)	Describe 'ISO systems and EURO Norms' for Motor Industry in India.	04
Ans	(Note: Equivalent credit shall be given to any other suitable explanation)	
	ISO systems for Motor Industry in India: The globalization has generally intensified the competition in international as well as domestic markets. Consumers now demand enhanced product quality and variety. In the automotive sector the global and regional outsourcing of components has risen over time. The product quality is a critical concern in automotive sector. Vehicle manufacturers (also called automotive Original Equipment Manufacturers, OEMs) and governments are interested in the safety and quality of vehicles sold, and therefore, also in the quality of auto components. With platform-sharing across a number of vehicle models – a general practice followed by automobile manufacturers – the failure of a common key component poses larger risks. Poor quality of vehicles can lead to excessive fuel consumption, high costs of dismantling & repairs, and accidents. In many advanced countries the vehicle sales are subjected to stringent product recall liabilities and severe penalties in accident lawsuits. The ISO/TS-16949 "standard was developed to satisfy a pressing need of the automotive suppliers, which – since the 1990s were subject to a confusing mass of military, national and customer standards" The ISO/TS-16949 Standard has been developed by the International Automotive Task Force, IATF an ad-hoc group of major global vehicle producers and national automotive associations and approved by the ISO technical committee ISO/TC 176 'Quality Management and Quality Assurance', responsible for the ISO-9000 QMS. The IATF also manages the ISO/TS-16949 accredits through its oversight offices. As per the IATF list updated on August 14, 2013, there are 45 contracted ISO/TS-16949: 2009 Certification Bodies; among those, the Indian Register Quality Systems, IRQS, is based in India.	02



(Autonomous)

(ISO/IEC - 27001 - 2013 Certified)

SUMMER-18 EXAMINATION

Model Answer

Subject Name: Transport Management

	EURO Norms for Motor Industry in India: EURO norms or Bharat stage emission standards (BSES) are emission standards instituted by the Government of India to regulate the output of air pollutants from internal combustion engines and Spark-ignition engines equipment, including motor vehicles. The standards and the timeline for implementation are set by the Central Pollution Control Board under the Ministry of Environment & Forests and climate change. While the norms help in bringing down pollution levels, it invariably results in increased vehicle cost due to the improved technology & higher fuel prices. However, this increase in private cost is offset by savings in health costs for the public, as there is lesser amount of disease causing particulate	02
	matter and pollution in the air.	
(f)	Explain the importance of Automobile Engineer in Transport Organization.	04
Ans	An Automobile Engineer is the real technocrat in automobile as well as transport industry, so he is required to play an important role as a responsible person as follows- (Any four points, each carry I mark) 1. Automobile engineers as an authority have to perform different functions in the office of STA/RTA as licensing authority, registration authority, Taxation authority etc. 2. In transport organizations, planning and scheduling various transport operations - Route Survey and trip planning, Scheduling of buses and Crews, 3. To maintain different records and its analysis. 4. Traffic analysis and control. 5. To adopt new technology and to introduce various improvement programs in new generation vehicle. 6. To try for different means of fuel economy. 7. To try to make vehicle more attractive, more comfortable and more reliable. 8. He is required to carry out the research and impart drivers training and road safety aspects.	