FINAL ANSWER KEY

Question Paper Code: Category Code: Exam: Medium of Question: Date of Test Department Alphacode 15/2019/OL 572/2017 Training Instructor MMV English 22-05-2019 Scheduled Castes Development Department A

Question1:-The Indian Constitution adopted the idea of amending the constitution from which country

A:-France **B:-Australia** C:-South Africa D:-Britain Correct Answer:- Option-C Question2:-When is the National Law Day? A:-January 26 B:-November 26 C:-July 22 D:-January 24 Correct Answer:- Option-B Question3:-The Right to Information Act was passed by the Indian Parliament in A:-12th October 2005 B:-26th November 2005 C:-22nd June 2005 D:-15th June 2005 Correct Answer:- Option-D Question4:-The 'Villuvandi Samaram' of 1893 was led by A:-Sahodaran Ayyappan B:-K.P. Karuppan C:-Dr Palpu D:-Ayyankali Correct Answer:- Option-D Question5:-The first book published entirely in Malayalam in Kerala is A:-Samkshepa Vedartham **B:-Malabar Manual** C:-Kundalatha D:-Indulekha Correct Answer:- Option-A Question6:-The Nadar women of Kerala got right to cover their breasts through which of the following agitation? A:-Villuvandi agitation **B:-Kallumala agitation** C:-Channar agitation D:-Abstention movement Correct Answer:- Option-C Question7:-The first newspaper in Malayalam 'Rajya Samacharam' was published from A:-Thalassery **B:-Kottayam** C:-Kozhikode D:-Thiruvananthapuram Correct Answer:- Option-A Question8:-Kerala Sangeetha Nataka Academy is located in A:-Ernakulam **B:-Thrissur** C:-Kannur D:-Tirur Correct Answer:- Option-B Question9:-The 'Antharjana Samajam' was founded by

A:-Parvathi Nenmenimangalam **B:-Arya Pallam** C:-Lalitha Prabhu D:-Lalithambika Antharjanam Correct Answer:-Question Cancelled Question10:-"I installed my Shiva; not a Brahmin Shiva" whose revolutionary words are these? A:-Ayyankali B:-Thycaud Ayya Vaikundar C:-Vagbhatananda Gurukkal D:-Sree Narayana Guru Correct Answer:- Option-D Question11:-Who led the first organised strike of agricultural labourers in Travancore? A:-C. Kesavan B:-Pandit K.P. Karuppan C:-Ayyankali D:-C.V. Kunjuraman Correct Answer:- Option-C Question12:-Among the following literary works, which one is written by Sri Vagbhatananda Gurukkal? A:-Atmopadesasatakam B:-Atmavidya C:-Darsanamala D:-Vedadhikara Niroopanam Correct Answer:- Option-B Question13:-Who among the following renaissance leaders exhorted 'Mattuvin Chattangale' (Change the rules) A:-Brahmananda Sivayogi B:-Chattampi Swamikal C:-Kumaranasan D:-Vaikunda Swamikal Correct Answer:- Option-C Question14:-Vakkom Abdul Khadir Moulavi started the newspaper 'Swadeshabhimani' at A:-Anjuthengu **B:-Thalassery** C:-Chirayinkeezhu D:-Thiruvananthapuram Correct Answer:- Option-A Question15:-Who is known as 'Kerala Maupassant'? A:-M.T. Vasudevan Nair B:-Thakazhi Sivasankara Pillai C:-Ulloor S. Parameswara Iyer D:-Changampuzha Krishan Pillai Correct Answer:- Option-B Question16:-Which district of Kerala is known as 'Land of Looms and Lores'? A:-Kasaragod B:-Ernakulam C:-Kollam D:-Kannur Correct Answer:- Option-D Question17:-What is the capital of Uttarakhand? A:-Dehradun B:-Ranchi C:-Raipur D:-Jaipur Correct Answer:- Option-A Question18:-'The Storting' is the Parliament of A:-Sweden **B:-Norway** C:-Denmark D:-Japan Correct Answer:- Option-B

Question19:-Which of the following country introduced the Environment tax from January 2018, to prevent pollution? A:-Japan **B:-America** C:-China D:-Australia Correct Answer:- Option-C Question20:-The 'Statue of Unity' world's tallest statue is located in which district of Gujrat A:-Ahmedabad B:-Rajkot C:-Gandhinagar D:-Narmada Correct Answer:- Option-D Question21:-Name the engine component that 'carries' the engine over its non-working strokes A:-Piston B:-Crank shaft C:-Flywheel D:-Connecting rod Correct Answer:- Option-C Question22:-The purpose of piston ring is to control A:-combustion pressure **B:-oil consumption** C:-cylinder wall lubrication D:-all of the above Correct Answer:- Option-D Question23:-On the rear end of the crank shaft we mount A:-timing gear B:-flywheel C:-counter weight D:-fan pulley Correct Answer:- Option-B Question24:-The engine valves are closed by A:-cam shaft B:-crank shaft C:-timing gear D:-valve spring Correct Answer:- Option-D Question25:-Cam shaft of an engine is always mounted A:-perpendicular to the crank shaft B:-parallel to the crank shaft C:-inclined to the crank shaft D:-any one of the above Correct Answer:- Option-B Question26:-Air-fuel ratio changes according to the operating conditions like A:-speed B:-load C:-speed and load D:-speed, load and temperature Correct Answer:- Option-D Question27:-Lean air-fuel mixture is required for A:-starting **B:-idling** C:-acceleration D:-cruisina Correct Answer:- Option-D Question28:-The centrifugal advance mechanism provide ignition advance proportional to A:-engine load B:-engine speed C:-both 1 and 2 D:-none of the above

Correct Answer:- Option-B Question29:-Contact breaker points are generally made of A:-steel B:-copper C:-tungsten D:-vanadium Correct Answer:- Option-C Question30:-In diesel engine combustion takes place at A:-constant pressure **B:-constant volume** C:-constant temperature D:-none of the above Correct Answer:- Option-A Question31:-Why a drain plug is provided in the fuel tank A:-remove sediments B:-drain fuel C:-both 1 and 2 D:-none of the above Correct Answer:- Option-C Question32:-The pressure plate of a clutch is mounted on the A:-fly wheel **B:-friction plate** C:-crank shaft D:-clutch cover Correct Answer:- Option-D Question33:-When clutch is engaged the spring pressure clamps the friction plate between pressure plate and A:-flywheel B:-clutch cover C:-reaction plate D:-none of the above Correct Answer:- Option-A Question34:-The purpose of 'double declutching' when changing down is to A:-slow down the lay shaft B:-speed up the lay shaft C:-slow down main shaft D:-speed up the main shaft Correct Answer:- Option-B Question35:-Speedometer is driven by the gearbox shaft called A:-primary shaft B:-lay shaft C:-counter shaft D:-main shaft Correct Answer:- Option-D Question36:-In the differential, the crown wheel is attached to the A:-propeller shaft B:-bevel gear C:-bevel pinion D:-differential cage Correct Answer:- Option-D Question37:-Hypoid gear require special lubricant because A:-tooth is made of soft material B:-tooth is made of hard material C:-such gear rotates faster D:-sliding action is there between teeth Correct Answer:- Option-D Question38:-Which of the following would enable the calculation of final drive gear ratio? A:-crown wheel teeth and pinion gear teeth B:-crown wheel teeth and star gear teeth C:-pinion wheel teeth and sun gear teeth

D:-star wheel teeth and pinion gear teeth Correct Answer:- Option-A Question39:-The type rear axle used on trucks A:-semi floating B:-fully floating C:-three-quarter floating D:-any one of the above Correct Answer:- Option-B Question40:-The vehicle ride will be comfortable if A:-up-sprung weight is kept minimum B:-sprung weight is kept minimum C:-vehicle weight is kept minimum D:-all of the above Correct Answer:- Option-A Question41:-Which of the following is a water tube boiler? A:-Cochran boiler **B:-Locomotive boiler** C:-Stirling boiler D:-None of the above Correct Answer:- Option-C Ouestion42:-La-Mont boiler is a A:-Low pressure boiler B:-Fire tube boiler C:-High pressure boiler D:-None of the above Correct Answer:- Option-C Question43:-The rate of flow of steam in case of water tube boiler as compared to fire tube boiler is A:-Less B:-More C:-Same D:-None of the above Correct Answer:- Option-B Question44:-The mounting on the boiler which put off fire when the level of water in the boiler is below the limit is A:-Safety valve B:-Stop valve C:-Fusible Plug D:-Blow off cock Correct Answer:- Option-C Question45:-A device used for raising the pressure of feed water in a boiler is A:-Economiser B:-Feed pump C:-Super heater D:-Air preheater Correct Answer:- Option-B Question46:-Which of the following is a boiler accessory? A:-Safety valve **B:-Stop valve** C:-Fusible plug D:-Super heater Correct Answer:- Option-D Question47:-Maximum heat loss in boiler occurs by A:-Flue gas B:-Moisture in fuel C:-Incomplete combustion D:-None of the above Correct Answer:- Option-A Question48:-Pumping loss in an IC engine is A:-Power spent in complete cycle **B:-Frictional power**

C:-Power used in suction and exhaust stroke D:-None of the above Correct Answer:- Option-C Question49:-Thermal efficiency of 2-stroke engine compared to a 4-stroke engine is A:-More **B:-Less** C:-Equal D:-None of the above Correct Answer:- Option-B Question50:-The compression ratio of a diesel engine compared to petrol engine is A:-More B:-Less C:-Equal D:-None of the above Correct Answer:- Option-A Question51:-For the same compression ratio which is efficient A:-Petrol engine is efficient B:-Diesel engine is efficient C:-Both are equally efficient D:-Cannot compare Correct Answer:- Option-A Question52:-Ignition Quality of petrol is measured by A:-Calorific value **B:-Cetane number** C:-Octane number D:-None of the above Correct Answer:- Option-C Question53:-Sedan and wagons are the classifications of vehicles based on A:-body shape **B:-seating capacity** C:-purpose D:-none of the above Correct Answer:- Option-A Question54:-Octane no. of iso-octane is A:-60 B:-70 C:-80 D:-100 Correct Answer:- Option-D Question55:-The fuel which detonate easily is A:-n-Heptane **B:-Iso-octane** C:-Benzene D:-Alcohol Correct Answer:- Option-A Question56:-The size of a lathe is specified by A:-Maximum distance between the centres B:-Length of bed C:-Height of the centre measured from lathe bed D:-All of the above Correct Answer:- Option-D Question57:-Which of the following method is used for taper turning in a lathe? A:-back gear method B:-all gear drive C:-form tool method D:-none of the above Correct Answer:- Option-C Question58:-The cutting tool in a milling machine is held in position A:-arbour

B:-spindle C:-column D:-knee Correct Answer:- Option-A Question59:-Which of the following metal has the least weldability A:-carbon steel B:-stainless steel C:-iron D:-cast iron Correct Answer:- Option-D Question60:-Which of the following is an example of plastic welding? A:-arc welding B:-gas welding C:-fusion welding D:-forge welding Correct Answer:- Option-D Question61:-Seam welding is A:-An arc welding process **B:-Gas welding process** C:-Continuous spot welding process D:-None Correct Answer:- Option-C Question62:-In thermit welding, the aluminium and iron oxide are mixed in the proportion of A:-1:3 B:-1:1 C:-1:2 D:-2:1 Correct Answer:- Option-A Question63:-The validity of registration of a private vehicle is A:-1 year B:-2 years C:-life time D:-15 years Correct Answer:- Option-D Question64:-Which one of the following is not a heat treatment process? A:-Parkerising **B:-Cyaniding** C:-Mar tempering D:-Nitriding Correct Answer:- Option-A Question65:-Which one of the following is a natural abrasive? A:-Diamond **B:-Silicon carbide** C:-Boron carbide D:-Aluminium oxide Correct Answer:- Option-A Question66:-Automotive starting motors are A:-Series wound B:-Shunt wound C:-Both 1 and 2 D:-None of the above Correct Answer:- Option-C Question67:-Gear reduction between the starting motor and the fly wheel is about A:-5 B:-15 C:-25 D:-50 Correct Answer:- Option-B Question68:-Spark plug with white insulator tip indicates

A:-Advanced ignition **B:-Retarded ignition** C:-Leaded fuel D:-Gas leak Correct Answer:- Option-A Question69:-Ignition timing can be adjusted by an A:-Accurate clock **B:-Stop watch** C:-Stroboscopic light D:-Vacuum gauge Correct Answer:- Option-C Question70:-The ratio of the distributor shaft and the crank shaft speed A:-1 B:-`(1)/(4)` C:-`(1)/(2)` D:-2 Correct Answer:- Option-C Question71:-The contact breaker gap is mot accurately set by a A:-Feeler gauge **B:-Dial gauge** C:-Dwell meter D:-None Correct Answer:- Option-C Question72:-A discharged lead acid battery has on its plate A:-Pb B:-PbO C:-`PbSO 4` D:-`PbSO 2` Correct Answer:- Option-C Question73:-A maintenance-free battery A:-Has lead-antimony plate B:-Lead-calcium plate C:-No acid D:-No water Correct Answer:- Option-B Question74:-In a DC generator the magnetic field is produced in the A:-Armature **B:-Commutator** C:-Starter D:-None of the above Correct Answer:- Option-D Question75:-What is VIN number stands for A:-Vehicle Index Number **B:-Vehicle Identification Number C:-Vehicle Information Number** D:-None Correct Answer:- Option-B Question76:-Photo chemical smog is caused by the emission A:-`NO x` B:-`CO_2` C:-`CO 3` D:-`SO_2` Correct Answer:- Option-A Question77:-Blow-by gases are emitted from A:-Tail pipe B:-Crank case C:-Carburetor D:-Fuel tank Correct Answer:- Option-B

Ouestion78:-The distance between the centres of the front wheel is called A:-Track B:-Wheel base C:-Axle width D:-None of the above Correct Answer:- Option-A Question79:-The minimum number of rings in a piston is A:-1 B:-2 C:-3 D:-4 Correct Answer:- Option-C Question80:-Which of the following is the first motor vehicle act in India? A:-Burma Act **B:-Madras Act** C:-Bombay Act D:-Bengal Act Correct Answer:- Option-D Question81:-Centre of gravity of a triangle lies at the point of inter section of A:-Medians **B:-Diagonals** C:-Bisector of angles D:-None of the above Correct Answer:- Option-A Question82:-The vehicle specially designed for persons with disability A:-Articulated vehicle B:-Omni vehicle C:-Motor cab D:-Invalid carriage Correct Answer:- Option-D Question83:-Moment of inertia is also called A:-First moment of area B:-Second moment of area C:-Third moment of area D:-None Correct Answer:- Option-B Question84:-A system of forces consists of a number of forces acting on a body A:-At the same time B:-In the same direction C:-One after the other in a given order D:-None of the above Correct Answer:- Option-A Question85:-Two forces each of 100 N act at a point at an angle 60° with each other. The resultant is A:-100 N B:-0 N C:-200 D:-173 N Correct Answer:- Option-D Question86:-The effect of a couple acting on a body is to A:-Keep the body in equilibrium B:-Rotate the body C:-Impart translator motion D:-None of the above Correct Answer:- Option-B Question87:-In which of the following the centroid lies out of the section A:-T section **B:-Symmetrical I section** C:-Unsymmetrical I section D:-Angle section

Correct Answer:- Option-D Question88:-Polar moment of inertia of a circular shaft of radius r is given by A:-`(pir^4)/(32)` B:-`(pir^4)/(64)` C:-`(pir^4)/(2)` D:-`(pir^4)/(16)` Correct Answer:- Option-C Question89:-The purpose drawing the funicular polygon is to find A:-The magnitude of the resultant B:-Direction of the resultant C:-The point at which resultant Acts D:-All of the above Correct Answer:- Option-D Question90:-The phenomenon by which a material under tensile load continues to elongate slowly at a high temperature is known as A:-Fatique **B:-Resilience** C:-Creep D:-Plasticity Correct Answer:- Option-C Question91:-Internal resistance set up per unit area to resist deformation is known as A:-Creep **B:-Resilience** C:-Strain D:-Unit stress Correct Answer:- Option-D Question92:-Poisson's ratio is defined as The ratio of A:-Shear stress to shear strain B:-Lateral stress to lateral strain C:-Lateral strain to longitudinal strain D:-Lateral strain to longitudinal stress Correct Answer:- Option-C Question93:-Which of the following should be followed for fuel efficient driving habit? A:-steady driving B:-avoid frequent braking C:-speed range between 35-50 kmph D:-all of the above Correct Answer:- Option-D Question94:-A fluid flow is said to be laminar if the Reynolds number is less than A:-2000 B:-1500 C:-2500 D:-4000 Correct Answer:- Option-A Question95:-Hydraulic mean depth (m) is given by A:-A/P B:-P/A $C:-A \times P$ D:-1/AP Correct Answer:-Question Cancelled Question96:-Surge tank in a pipe line is used to A:-reduce loss of head B:-make flow uniform C:-relieve the pressure due to water hammer D:-none of the above Correct Answer:- Option-C Ouestion97:-If the head of a turbine is more than 300 m then the turbine used should be A:-Francis **B:-Kaplan**

C:-Pelton D:-Propeller Correct Answer:- Option-C Question98:-Mach number is defined as the ratio of A:-Inertia force to viscous force B:-Inertia force to gravity force C:-Elastic force to viscous force D:-Inertia force to surface tension force Correct Answer:-Question Cancelled Question99:-Poise is the unit of A:-mass density **B:-viscosity** C:-kinematic viscosity D:-velocity gradient Correct Answer:- Option-B Question100:-Bernoulli's theorem deals with the law of conservation of A:-momentum B:-energy C:-mass D:-none of the above Correct Answer:- Option-B