otal number of printed pages: 2

NB-XII/AUTO(V)/1

2023

Automotive (Vocational)

Total marks: 50

General instructions:

- *i)* Approximately 15 minutes is allotted to read the question paper and revise the answers.
- *ii)* All questions are compulsory except Q. nos. 18 to 23 where general option is given.
- *iii)* The question paper consists of 23 questions.
- iv) Marks allocated to every question are indicated against it.
- N.B: Check that all pages of the question paper are complete as indicated on the top left side.

1.	Choose the correct answer from	the given alternatives:	10x1=10	
i.	The manuals provided by the manufacturers which cover the servicin			
	maintenance and repair of their products is called			
	(a) service manual	(b) owner's manual		
	(c) maintenance manual	(d) insurance manu	al	
ii.	Push rod are made of			
	(a) alloy steel	(b) carbon mangane	ese steel	
	(c) carbon steel	(d) austenitic steels		
iii.	Typically clutch overhauls are required every			
	(a) 80000-90000 kms	(b) 75000-80000 kr	ns	
	(c) 70000-80000 kms	(d) 60000-70000 kr	ns	
iv.	The study of the forces at work on a moving car is called			
	(a) road isolation	(b) road holding		
	(c) vehicle dynamics	(d) aero dynamics		
v.	v. Which of the following is not a component of air conditioning system?			
	(a) Compressors	(b) Dryer		
	(c) Expansion valve	(d) Battery		
vi.	Which of the following is a key communication skill?			
	(a) Speaking	(b) Feedback		
	(c) Channel	(d) Eye contact		
vii.	According to Helen Keller, optimism is the faith that leads to achievement.			
	Nothing can be done without hope an	nd		
	(a) dreams	(b) confidence		
	(c) strengths	(d) enjoyment		
viii.	iii. What is the short cut key to underline text in a spreadsheet?			
	(b) Ctrl+b	(b) Ctrl+i		
	(d) Ctrl+l	(d) Ctrl+u		
ix.	It provides energy for ignition.			
	(a) Ballast Resistor	(b) Capacitor		
	(c) Battery	(d) Distributor		

Time: 2 hours

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NB-XII/AUTO(V)/1

x. The Government of India launched the National Action Plan on Climate Change (NAPCC) on

(a) June 2007
(b) June 2008
(c) June 2009
(d) June 2010

Answer the following questions in one word or one sentence:

2.	Why is regular servicing of automobile necessary?	1			
3.	Write the full form of MPFI.	1			
4.	Write one purpose of wheel alignment.	1			
5.	Write one use of hazard light.	1			
6.	State any two factors that affect active listening.	1			
7.	Write two ways to manage stress in our daily life.	1			
8.	List any two main types of data.	1			
9.	What is green job?	1			
Ans	wer the following questions in 20-50 words:				
10.	Write any two benefits of wearing seat belt.	2			
11.	Briefly explain any two functions of a piston ring.	2			
12.	What is engine valve used for? Name any two components of valve train	1.			
		1+1=2			
13.	Draw the universal joint and label any two part of it.	1+1=2			
14.	What is a steering linkage? What is the purpose of steering linkage?	1+1=2			
15.	What are the two wear characteristics of tyre due to excessive camber?	2			
16.	Write any two disadvantages of battery ignition system.	2			
17.	What is interpersonal skill? State any two characteristics of interpersonal skill.	l 1+1=2			
Ans	Answer any four from the following questions in 60-100 words:				
18.	What is an injector nozzle? Write any three causes of faulty injection nozzle.	1+3=4			
19.	What is bearing? Briefly explain any three types of sliding bearings used in internal combustion engines.	d 1+3=4			
20.	Name the different types of automatic power transmission system and explain any one of it.	2+2=4			
21.	Explain any two different technologies used for automation of transmiss system.	sion 4			
22.	Give four reasons to justify why a suspension system is needed in an automobile.	4			
23.	Explain any four different components of air condition.	4			

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