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B.VOC
(SEM III) THEORY EXAMINATION 2021-22
AUTOMOBILE ELECTRICAL SYSTEM

Time: 3 Hours**Total Marks: 30****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****1 x 6 = 6**

Qno.	Question	Marks
a.	What is function of pinion in starter motor?	1
b.	Why a dynamo or alternator is required in an automobile vehicle?	1
c.	Why ignition system is not required in diesel automobile engines?	1
d.	Write the function of cutout.	1
e.	What is dipper beam light?	1
f.	Write the function of speedometer and odometer.	1

SECTION B**2. Attempt any three of the following:****3 x 3 = 9**

Qno.	Question	Marks
a.	Discuss the principle and working of starter motor for automobile.	3
b.	Describe alternator charging system with help of circuit diagram.	3
c.	With the help of neat sketch explain construction and working of spark plug.	3
d.	Explain the battery ignition system with suitable diagram.	3
e.	How an electric horn works? Explain with suitable diagram.	3

SECTION C**3. Attempt any one part of the following:****1 x 3 = 3**

Qno.	Question	Marks
a.	Explain briefly the following; (i) Bendix drive (ii) Over running clutch drive	3
b.	Derive armature torque equation of a dc motor and explain why dc series motor is preferred as starter motor?	3

4. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	What do you understand about ignition timing? Enumerate the various which affect the ignition timings.	3
b.	What are the advantages of magneto ignition system over battery ignition system?	3



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5. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	With the help of neat sketch, describe capacitive discharge ignition (CDI) system.	3
b.	What do you understand about distributor less ignition (DIS) system? Explain with suitable diagram.	3

6. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	Describe about head light aiming.	3
b.	Explain working of flashing direction indicators with circuit diagram.	3

7. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	Using schematic diagram explain the working of wind screen wiper.	3
b.	What do you understand about center locking of doors? Explain the functioning of center door locking system.	3

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