

101. Internal combustion engine was invented by:

- |                               |                                  |
|-------------------------------|----------------------------------|
| <a href="#">A.</a> Hudson     | <a href="#">B.</a> Rudolf Diesel |
| <a href="#">C.</a> James Watt | <a href="#">D.</a> Nicolas Otto  |

**Answer:** Option **D**

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102. The work of crankshaft is to:

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| <a href="#">A.</a> Power the piston | <a href="#">B.</a> Turn the flywheel |
| <a href="#">C.</a> Operate valves   | <a href="#">D.</a> All are correct   |

**Answer:** Option **B**

---

103. In diesel cycle engines air enters in the cylinder through the:

- |                               |                                 |
|-------------------------------|---------------------------------|
| <a href="#">A.</a> Inlet port | <a href="#">B.</a> Intake valve |
| <a href="#">C.</a> Injector   | <a href="#">D.</a> Nozzles      |

**Answer:** Option **B**

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104. The common face and seat angle of valve is:

- |                        |                        |
|------------------------|------------------------|
| <a href="#">A.</a> 45° | <a href="#">B.</a> 60° |
|------------------------|------------------------|

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C. 90?

D. 120?

**Answer:** Option **A**

---

105. The four-stroke engines are:

A. High speed engine

B. Low speed engine

C. Medium speed engine

D. All are correct

**Answer:** Option **D**

---

106. Two-stroke engine are:

A. High speed engine

B. Low speed engine

C. Medium speed engine

D. All are correct

**Answer:** Option **A**

---

107. The power develops by four-stroke engine for every one revolution of crankshaft is:

A. Half of two-stroke engine

B. Equal to two-stroke engine

C. Twice two stroke engine

D. Trice two stroke engine

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**Answer:** Option **A**

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108. In four-stroke diesel engines, the air enters in the cylinder during:

- |                              |                          |
|------------------------------|--------------------------|
| <b>A.</b> Suction stroke     | <b>B.</b> Power stroke   |
| <b>C.</b> Compression stroke | <b>D.</b> Exhaust stroke |

**Answer:** Option **A**

---

109. F-type valves are used in engines has:

- |   |                                       |
|---|---------------------------------------|
| <b>A.</b> Pre-combustion chamber        | <b>B.</b> External combustion chamber |
| <b>C.</b> Don't have combustion chamber | <b>D.</b> Both (a) & (b)              |

**Answer:** Option **A**

---

110. I-head type valves are generally used in:

- |                           |                              |
|---------------------------|------------------------------|
| <b>A.</b> Tractor engines | <b>B.</b> Stationary engines |
| <b>C.</b> Steam engines   | <b>D.</b> Both (a) & (b)     |

**Answer:** Option **D**

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111. In T-head type engine, the valves are:

- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| <u>A.</u> On one side             | <u>B.</u> Are opposite to each other |
| <u>C.</u> Are opposite but inline | <u>D.</u> Both (b) & (c)             |

**Answer:** Option **A**

112. The cam lobes of camshaft helps in:

- |  |                                   |
|--|-----------------------------------|
| <u>A.</u> Opening and closing the valves | <u>B.</u> Driving the timing gear |
| <u>C.</u> Driving flywheel               | <u>D.</u> Operated crankshaft     |

**Answer:** Option **A**

113. The teeth on the crankshaft gear is:

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| <u>A.</u> Half to camshaft gear   | <u>B.</u> Equal to camshaft gear   |
| <u>C.</u> Double of camshaft gear | <u>D.</u> Four times camshaft gear |

**Answer:** Option **A**

114. When cam gear rotates one time the crankshaft gear will rotate:

- [A.](#) Half time
- [B.](#) Two times
- [C.](#) Same rotation of cam gear
- [D.](#) Three times

**Answer:** Option **B**

---

115. Firing order of an engine indicates:

- [A.](#) Sequence of power stroke
- [B.](#) Sequence of all strokes
- [C.](#) Interval of between two successive power strokes
- [D.](#) Interval between all power strokes

**Answer:** Option **A**

---

116. Engine is a device, which converts:

- [A.](#) Chemical energy into mechanical
- [B.](#) Mechanical energy into chemical
- [C.](#) Chemical energy into electrical energy
- [D.](#) Mechanical energy into electrical

**Answer:** Option **A**

---

117. To and fro motion of piston is converted to

- [A.](#) Reciprocating motion
- [B.](#) Rotary motion

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C. Oscillatory motion

D. Vibrating motion

**Answer:** Option **B**

---

118. External combustion engine is more powerful than

A. Diesel engine

B. Petrol engine

C. Internal combustion engine

D. All are correct

**Answer:** Option **D**

---

119. The volume displaced by one-stroke of piston is:

A. Cylinder volume

B. Swept volume

C. Clearance volume

D. Total volume

**Answer:** Option **B**

---

120. Pre-combustion chamber is found in:

A. Petrol engine

B. Diesel engine

C. Steam engines

D. All are correct

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**Answer:** Option **B**

121. Distance travelled by piston from TDC to BDC is:

- |                               |                        |
|-------------------------------|------------------------|
| <u>A.</u> Stroke              | <u>B.</u> Bore         |
| <u>C.</u> Piston displacement | <u>D.</u> Piston speed |

**Answer:** Option **A**

---

122. The diesel engine does not have:

- |                         |                           |
|-------------------------|---------------------------|
| <u>A.</u> Carburettor   | <u>B.</u> Spark plug      |
| <u>C.</u> Ignition coil | <u>D.</u> All are correct |

**Answer:** Option **D**

---

123. As the 'cc' of engine increases, the power of engine will:

- |                        |                         |
|------------------------|-------------------------|
| <u>A.</u> Decrease     | <u>B.</u> Increase      |
| <u>C.</u> Remains same | <u>D.</u> None of these |

**Answer:** Option **B**

---

124. Ratio of brake horsepower to indicated horsepower is:

- |                                 |                                 |
|---------------------------------|---------------------------------|
| <u>A.</u> Thermal efficiency    | <u>B.</u> Volumetric efficiency |
| <u>C.</u> Mechanical efficiency | <u>D.</u> Brake efficiency      |

**Answer:** Option **C**

---

125. A gear used in timing gear is:

- |                        |                      |
|------------------------|----------------------|
| <u>A.</u> Spur ger     | <u>B.</u> Bevel gear |
| <u>C.</u> Helical gear | <u>D.</u> Warm gear  |

**Answer:** Option **A**

---

126. Gaskets are made of:

- |                  |                          |
|------------------|--------------------------|
| <u>A.</u> Copper | <u>B.</u> Asbestos       |
| <u>C.</u> Fibre  | <u>D.</u> Both (a) & (b) |

**Answer:** Option **D**



127. The gaskets are used to:

- [A.](#) Prevent leakage
- [B.](#) Prevent dust
- [C.](#) Prevent wear
- [D.](#) All of above

**Answer:** Option **A**

128. The total number of rings on piston may vary from:

- [A.](#) 2 ? 4
- [B.](#) 3 ? 5
- [C.](#) 3 ? 7
- [D.](#) 2 ? 7

**Answer:** Option **C**

129. A connecting rod of four-stroke engines is subjected to:

- [A.](#) Compression and tension
- [B.](#) Compression and side thrust
- [C.](#) Side thrust only
- [D.](#) Compression and twisting

**Answer:** Option **A**

130. The arrangements of valves used in the engine may be:

- [A.](#) I-Head type
- [B.](#) T-head type

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C. L-head type

D. All are correct

**Answer:** Option **D**

131. The firing order of eight-cylinder engine is:

A. 1 5 4 2 6 3 7 8

B. 1 2 6 3 4 7 5 8

C. 1 5 3 4 2 7 8

D. 1 2 4 6 7 3 5 8

**Answer:** Option **A**

132. The useful life of stationary engine is:

A. 10 years

B. 15 years

C. 12 years

D. 20 years

**Answer:** Option **A**

133. The expected life of stationary engine is:

A. 10,000 hrs

B. 12,000 hrs

C. 15,000 hrs

D. 20,000 hrs

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**Answer:** Option **A**

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134. The flywheel is mounted on:

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| <u>A.</u> Front end of crankshaft | <u>B.</u> Rear end of crankshaft |
| <u>C.</u> Front end of camshaft   | <u>D.</u> Rear end of camshaft   |

**Answer:** Option **B**

---

135. Push rod is operated between:

- |                                 |                               |
|---------------------------------|-------------------------------|
| <u>A.</u> Tappet and rocker arm | <u>B.</u> Camshaft and tappet |
| <u>C.</u> Tappet and rocker arm | <u>D.</u> Valve and piston    |

**Answer:** Option **A**

---

136. Constant speed engine is used in:

- |                     |                              |
|---------------------|------------------------------|
| <u>A.</u> Tractor   | <u>B.</u> Power tiller       |
| <u>C.</u> Motor car | <u>D.</u> Electric generator |

**Answer:** Option **D**

---

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137. Variable-speed engines are used in:

- |                              |                               |
|------------------------------|-------------------------------|
| <u>A.</u> Tractor            | <u>B.</u> Four wheel vehicles |
| <u>C.</u> Two wheel vehicles | <u>D.</u> All are correct     |

**Answer:** Option **D**

---

138. Constant speed governor is used in:

- |                          |                             |
|--------------------------|-----------------------------|
| <u>A.</u> Petrol engine  | <u>B.</u> Stationary engine |
| <u>C.</u> Tractor engine | <u>D.</u> All are correct   |

**Answer:** Option **B**

---

139. If stroke: bore ratio of an engine increase, the thermal efficiency:

- |                        |                         |
|------------------------|-------------------------|
| <u>A.</u> Increase     | <u>B.</u> Decrease      |
| <u>C.</u> Remains same | <u>D.</u> None of these |

**Answer:** Option **A**

---

140. Black smoke indicates:

- |  |                                     |
|--|-------------------------------------|
| <u>A.</u> Burning of lubricant in the cylinder | <u>B.</u> Presence of water in fuel |
| <u>C.</u> Engine is overloaded                 | <u>D.</u> None of these             |

**Answer:** Option **C**

141. The violent noise heard in engine during process of combustion is:

- |                      |                           |
|----------------------|---------------------------|
| <u>A.</u> Scavenging | <u>B.</u> Detonation      |
| <u>C.</u> Wearing    | <u>D.</u> All are correct |

**Answer:** Option **B**

142. The process of removal of burnt gases from the engine cylinder is:

- |                      |                      |
|----------------------|----------------------|
| <u>A.</u> Scavenging | <u>B.</u> Detonation |
| <u>C.</u> Knocking   | <u>D.</u> Burning    |

**Answer:** Option **A**

143. The indicated horsepower of an engine was measured by:

- |                       |                      |
|-----------------------|----------------------|
| <u>A.</u> Dynamometer | <u>B.</u> Tachometer |
|-----------------------|----------------------|

C. Indicator

D. None of these

**Answer:** Option **C**

---

144. The location of carburetor in tractor from front is in:

A. Center

B. Left side

C. Right side

D. None of these

**Answer:** Option **D**

---

145. The best hydrocarbons from detonation point of view are:

A. Paraffin

B. Naphthenes

C. Aromatics

D. Olefins

**Answer:** Option **C**

---

146. The calorific value of gasoline is:

A. 45 MJ/kg

B. 45 Kj/kg

C. 45 J/kg

D. None of these

---

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**Answer:** Option **A**

147. The temperature at which fuel flow ceases is:

A. Pour point

B. Flash point

C. Cloud point

D. Smoke point

**Answer:** Option **A**

---

148. The temperature at which fuel catches fire is:

A. Pour point

B. Flash point

C. Cloud point

D. Smoke point

**Answer:** Option **B**

---

149. The lowest temperature at which fuel begins to crystallize is:

A. Pour point

B. Flash point

C. Cloud point

D. Smoke point

**Answer:** Option **C**





153. The specific gravity of high-speed diesel is:

A. 0.73

B. 0.87

C. 0.92

D. 0.95

**Answer:** Option **B**

---

154. The specific gravity of light diesel oil is:

A. 0.82

B. 0.85

C. 0.92

D. 0.95

**Answer:** Option **C**

---

155. The calorific value of high-speed diesel is:

A. 10,000 kcal/kg

B. 12,000 Kcal/kg

C. 10,550 Kcal/kg

D. 81,00 Kcal/kg

**Answer:** Option **C**

---

156. The calorific value of petrol is:

A. 10,000 Kcal/litre

B. 11,000 Kcal/litre

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C. 15,000 Kcal/litre

D. 81,50 Kcal/litre

**Answer:** Option **D**

---

157. The calorific value of diesel oil is:

A. 9400 Kcal/litre

B. 10,000 Kcal/litre

C. 11,000 Kcal/litre

D. 12,000 Kcal/litre

**Answer:** Option **A**

---

158. The anti-knock quality of petrol fuel is determined by:

A. Cetane number

B. Octane number

C. Both (a) & (b)

D. None of these

**Answer:** Option **B**

---

159. The anti-knock quality of diesel is determined by:

A. Cetane number

B. Octane number

C. SAE number

D. None of these

---

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**Answer:** Option **A**

---

160. The viscosity of oil denoted by a number is:

- |                         |                         |
|-------------------------|-------------------------|
| <u>A.</u> Cetane number | <u>B.</u> Octane number |
| <u>C.</u> SAE number    | <u>D.</u> None of these |

**Answer:** Option **C**

171. Primary objective of graded terrace is to:

- |   |  |
|---|--|
| <u>A.</u> Reduce the field slope length | <u>B.</u> Remove runoff with non-erosive way |
| <u>C.</u> Both (a) & (b)                | <u>D.</u> None of these                      |

**Answer:** Option **C**

---

172. The API gravity of light diesel oil is:

- |              |              |
|--------------|--------------|
| <u>A.</u> 22 | <u>B.</u> 25 |
| <u>C.</u> 40 | <u>D.</u> 50 |

**Answer:** Option **A**

---

173. The API gravity of petrol is:

A. 61

B. 65

C. 70

D. 80

**Answer:** Option **A**

---

174. The API of high-speed diesel is:

A. 25

B. 31

C. 40

D. 50

**Answer:** Option **B**

---

175. The quality of fuel is judged by:

A. Colour

B. Volatility

C. Both (a) & (b)

D. None of these

**Answer:** Option **B**

176. The volatility of fuel effects:

- A. Efficiency of engine                      B. Power of engine  
C. Speed of engine                          D. All are correct

**Answer:** Option **C**

---

177. The vaporizing temperature of petrol fuel is:

- A. Higher than diesel fuel                  B. Lower than diesel fuel  
C. Equal to diesel fuel                      D. None of these

**Answer:** Option **C**

---

178. Molecular formula of diesel is:

- A. C11H15                                      B. C11 H16  
C. C12 H15                                      D. C11H14

**Answer:** Option **B**

---

179. High speed diesel is used in:

- A. High speed diesel engine                  B. Low speed diesel engine

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C. Petrol engine

D. Aircraft engine

**Answer:** Option **A**

---

180. The specific gravity of fuel is measured by:

A. Hygrometer

B. Thermometer

C. Hydrometer

D. All are correct

**Answer:** Option **C**

181. The API gravity of water is:

A. 8

B. 10

C. 15

D. 20

**Answer:** Option **B**

---

182. Lighter fuels have:

A. High API gravity

B. Low API gravity

C. High density

D. All are correct

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186. The detonation of fuel takes place during:

- |                      |                         |
|----------------------|-------------------------|
| <u>A.</u> Combustion | <u>B.</u> Injection     |
| <u>C.</u> Exhaust    | <u>D.</u> None of these |

**Answer:** Option **A**

---

187. Distillation test measures the:

- |                           |                      |
|---------------------------|----------------------|
| <u>A.</u> Calorific value | <u>B.</u> SAE number |
| <u>C.</u> Volatility      | <u>D.</u> Power      |

**Answer:** Option **A**

---

188. The volatility quality of fuel indicates:

- |                                      |                           |
|--------------------------------------|---------------------------|
| <u>A.</u> Specific gravity of fuel   | <u>B.</u> Density of fuel |
| <u>C.</u> Vaporizing ability of fuel | <u>D.</u> All are correct |

**Answer:** Option **C**





**Answer:** Option **D**

193. Vapour lock is associated with:

- |                              |                           |
|------------------------------|---------------------------|
| <u>A.</u> Ignition system    | <u>B.</u> Cooling system  |
| <u>C.</u> Fuel supply system | <u>D.</u> Ignition system |

**Answer:** Option **C**

194. The work of choke is:

- |  |                                    |
|--|------------------------------------|
| <u>A.</u> Supply the air into cylinder | <u>B.</u> Supply of electric spark |
| <u>C.</u> Supply of rich mixture       | <u>D.</u> All are correct          |

**Answer:** Option **C**

195. A pump, which supplies the fuel to different cylinder or multi cylinder engine is:

- |                               |                         |
|-------------------------------|-------------------------|
| <u>A.</u> Centrifugal pump    | <u>B.</u> Oil pump      |
| <u>C.</u> Fuel injection pump | <u>D.</u> None of these |

**Answer:** Option **C**

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196. Air injection pumps are mostly used in:

- A. Tractor engine
- B. Railway engine
- C. Aircraft engine
- D. Heavy duty stationary engine

**Answer:** Option **D**

---

197. The pipeline used to supply the fuel to the injector is:

- A. Low pressure line
- B. High pressure line
- C. Zero pressure line
- D. All are correct

**Answer:** Option **B**

---

198. In diesel engines, fuel injected in the cylinder is through:

- A. Carburetor
- B. Fuel injection pump
- C. Fuel injector
- D. All are correct

**Answer:** Option **C**

199. In Otto cycle engines, air fuel mixture comes in cylinder through:

- [A.](#) Injector
- [B.](#) Carburetor
- [C.](#) Both (a) & (b)
- [D.](#) None of these

**Answer:** Option **B**

---

200. The first butterfly valve of carburetors controls the flow of:

- [A.](#) Air fuel mixture
- [B.](#) Fuel supply
- [C.](#) Oil supply
- [D.](#) All are correct

**Answer:** Option **A**