



Total Qns:45

GME SAMPLE QUESTION PAPER

| Instructions: ➤ Question no 1 to 37 are of objective type. ➤ Question no 38 to 45 to be written separately. | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|--|--|
| | SECTION A: FLUID MECHANICS | | | | |
| Qn 1 to 5 | carry 2 marks each, Qn 6 to 8 carry 3 marks ea | cn, Qn | 9 to 10 carry 4 marks each. | | |
| 1. | (A) standard atmospheric pressure is 1.01325 bar | (B) | a barometer reads the difference between load and standard atmospheric pressure | | |
| | standard atmospheric pressure is the mean local atmospheric pressure at sea level | (D) | local atmospheric pressure is always below standard atmospheric pressure | | |
| | In case of end to end connection of two or mor | e pipes | in series, the each pipe. | | |
| 2. | (A) same rate of flow passes through | (B) | head loss is same through | | |
| | rate of flow in each pipe is proportional to the length of | (D) | total flow rate is the sum of flow rate in | | |
| | Foot valves provided in pumps are valves. | | | | |
| 3. | (A) relief | (B) | pressure reducing | | |
| | (C) three way | (D) | directional control | | |
| | The pitot-static tube measures | | | | |
| 4. | (A) dynamic pressure | (B) | static pressure | | |
| | (C) total pressure | (D) | difference in static and dynamic pressure. | | |
| | Surface molecules have energy than in | terior r | nolecules in a liquid | | |
| 5. | (A) less | (B) | more | | |
| | (C) same | (D) | none of the above | | |
| | Pressure in Pascals at a depth of 1m below the free surface of a body of water will be equal to | | | | |
| 6. | (A) 1 Pa | (B) | 98.1 Pa | | |
| | (C) 981 Pa | (D) | 9810 Pa | | |
| _ | If pressure at any point in the liquid approaches the vapour pressure, liquid starts vaporising and creates pockets or bubbles of dissolved gases and vapours. This phenomenon is | | | | |
| 7. | (A) surface tension | (B) | adhesion | | |
| | (C) vaporisation | (D) | cavitation | | |
| | Which of the following valves will incur maximum pressure drop for the same discharge of water? | | | | |
| 8. | (A) gate valve | (B) | butterfly | | |
| | (C) globe | (D) | needle valve | | |
| | | | | | |





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| | Buoyant force is | | | | | |
|----------|-------------------------------------------------------------------|-----------------|------------------------------------------------------------------|--|--|--|
| 9. | (A) the resultant force on a body due to the fluid surrounding it | (B) | the resultant force acting on a floating body | | | |
| | (C) equal to the volume of liquid displaced | (D) | the force necessary to maintain equilibrium of a submerged body. | | | |
| | The force exerted by a jet on a curved plate is | | | | | |
| 10. | (A) less than that on flat plate | (B) | equal to that on a flat plate | | | |
| | (C) more than that on a flat plate | (D) | sometimes more and sometimes less than that on a flat plate | | | |
| SECTIO | N B: THERMODYNAMICS | | | | | |
| Qn 11 to | 15 carry 2 marks each, Qn 16 to 18 carry 3 m | arks eacl | h, Qn 19 to 20 carry 4 marks each. | | | |
| | 1 bar pressure is nearly equal to | | | | | |
| 11. | (A) 1 mm Hg | (B) | 13.4 mm Hg | | | |
| | (C) 100 mm Hg | (D) | 760 mm Hg | | | |
| | The quantity of heat required to raise temp | erature o | of one gram of water through 1°C is | | | |
| 12. | (A) one joule | (B) | one Kcal | | | |
| | (C) 100 cal | (D) | one cal | | | |
| | The amount of heat energy required to rais | e the tem | perature of one gram of substance | | | |
| 13. | through one degree of Kelvin is called (A) Specific heat | (B) | Latent heat | | | |
| | (A) Specific heat (C) Radiant heat | (D) | Molar specific heat | | | |
| | With rise of temperature, the specific heat of | | Words specific fleat | | | |
| 14. | (A) increases |)1 water (B) | decreases | | | |
| | (C) first decreases to minimum then increases | | remains constant | | | |
| | The standard value of atmospheric pressure | | t sea level is | | | |
| 15. | (A) 1.013 bar | (B) | 760 mm of Hg | | | |
| 15. | (C) $1013 \times 102 \text{ N/m}^2$ | (D) | all of these | | | |
| | | | | | | |
| | Radiant heat propagates through vacuum v | vith speed | d of | | | |
| 16. | (A) sound | (B) | light | | | |
| | (C) half of light | (D) | less than light | | | |
| | A nozzle is a device, which | | | | | |
| 17. | (A) increases kinetic energy and decreases pressure | (B) | reduces kinetic energy and increases pressure. | | | |





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| | (C) | reduces both kinetic energy and pressure. | (D) | increases both kinetic energy and pressure | | |
|-----------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------|--|--|
| | _ | A liquid is boiling in an air tight vessel. Using an exhaust tube the vapour is pumped out at a faster rate. What will happened to the liquid | | | | |
| 18. | (A) | temperature will go down and boiling will continue | (B) | temperature will rise and boiling will continue | | |
| | (C) | boiling will stop | (D) | whatever vapour inside will condense | | |
| | Refr | Refrigeration capacity of a household refrigerator may be round abouttons. | | | | |
| 19. | (A) | 1.5 | (B) | 0.15 | | |
| | (C) | 4.5 | (D) | 6.5 | | |
| 20 | | If a heat engine gives an output of 3 kW when the input is 10,000 J/s, then the thermal efficiency of the engine will be | | | | |
| 20. | (A) | 20% | (B) | 30% | | |
| | (C) | 70% | (D) | 76.70% | | |
| SECTIO | N C: G | GENERAL ENGINEERING | | | | |
| Qn. 21 to | 25 car | rry 2 marks each, Qn 26 to 28 carry 3 mar | kş eac | ch, Qn 29 to 30 carry 4 marks each. | | |
| | All t | the commercial liquid fuels are derived from | | | | |
| 21. | (A) | Coal | (B) | Crude oil | | |
| | (C) | Fuel oil | (D) | LNG | | |
| | Whic | Which of the following is not a type of energy source? | | | | |
| 22. | (A) | rheostat | (B) | generator | | |
| | (C) | battery | (D) | solar cell | | |
| | A 100 cc engine refers to | | | | | |
| 23. | (A) | fuel tank capacity | (B) | lubricating oil capacity | | |
| | (C) | swept volume | (D) | cylinder volume | | |
| | A four stroke diesel engine does not have | | | | | |
| 24. | (A) | cooling system | (B) | ignition coil | | |
| | (C) | cam shaft | (D) | piston rings | | |
| | Ratio of heat used in generation of steam to the heat supply by fuel in a same period is known | | | | | |
| 25. | as (A) | boiler efficiency | (B) | economiser efficiency | | |
| | (C) | chimney efficiency | (D) | none of these | | |
| | | • | | | | |
| 26. | | ch of the listed operations will cause an aut start? | iomat | icany controlled refrigeration compressor | | |





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| | (A) | Closing of solenoid valve | (B) | Closing of expansion valve | |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | (C) | Increase in suction pressure | (D) | Decrease in suction pressure | |
| | Centrifugal pump should be started with | | | | |
| 27. | (A) | delivery valve open | (B) | delivery valve close | |
| | (C) | suction valve close | (D) | none of above | |
| | | | | | |
| | On psychometric chart, dew point temperature lines a (A) horizontal (B) | | | vertical | |
| 28. | (C) | horizontal | • • | | |
| | (0) | straight inclined sloping downward to the right. | (D) | curved. | |
| | For | same power, the floor area occupied by tw | o-strol | ke cycle engine as compared to four-stroke | |
| | | e engine is | 34101 | of one one of the original of | |
| 29. | (A) | more | (B) | less | |
| | (C) | same | (D) | none of these | |
| | If th | e relative humidity of atmosphere air is 10 | 0% th | e rate of evaporation of water will be | |
| 30. | (A) | very high | (B) | very low | |
| | (C) | same as the water content in air | (D) | zero | |
| | 1 | | (5) | ZCIO | |
| SECTIO | N D: L | LOGIC | | | |
| Qn 31 to | 37 car | ry 1 mark each. | | | |
| | Yard | l is to inch as quart is to | | | |
| 31. | (A) | gallon | (B) | ounce | |
| | (C) | milk | (D) | liquid | |
| | Choose the word that is a necessary part of the underlined word: | | | | |
| | election | | | | |
| 32. | (A) | president | (B) | voter | |
| | (C) | November | (D) | nation | |
| | Wha | at comes next in the given series? | | | |
| | FAG, GAF, HAI, IAH, | | | | |
| 33. | (A) | IAV | (B) | IIAI | |
| | (C) | JAK | | HAL | |
| | (0) | HAK | (D) | JAI | |
| | All the offices on the 9th floor have wall-to-wall carpeting. | | | | |
| | No wall-to-wall carpeting is pink. None of the offices on the 9th floor has pink wall-to-wall carpeting. | | | | |
| 34. | Trone of the offices on the 7th hoof has plink wan-to-wan cal peting. | | | | |
| | If the first two statements are true, the third statement is | | | | |
| | (A) | True | (B) | False | |
| | (C) | Uncertain | (D) | None of all | |
| | • | | | | |





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| | Look at this series: 8, 22, 8, 28, 8, What number should come next? | | | | |
| 35. | (A) | 9 | (| (B) | 29 |
| | (C) | 32 | (| (D) | 34 |
| | Look a | at this series: 3, 4, 7, 8, 11, 1 | 2, What numb | ber sh | nould come next? |
| 36. | (A) | 7 | (| (B) | 10 |
| | (C) | 14 | (| D) | 15 |
| | Which | n word does NOT belong wi | th the others? | | |
| 37. | | | | | |
| | | dodge | | B) | flee |
| | (C) | duck | (| (D) | avoid |
| SECTIO | N E: EN | IGLISH | | | |
| Solve the | followin | ng questions. $(4 \times 1 = 4)$ | | | |
| 38. | Rearrange the jumbled up sentence into a meaningful one: on the road People queue formed a. | | | | |
| 39. | Make a sentence with the following word: DISCLOSE | | | | |
| 40. | Correct the following sentence: I no like coffee. | | | | |
| 41. | Complete the following sentence: The best teacher is the one who | | | | |
| Read the | Read the following passage and answer questions. ($3 \times 1 = 3$) | | | | |
| Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in musical theater an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theater such as scenery, costumes, and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrumental ensemble to a full symphonic orchestra. | | | | | |
| 42. | Why is opera referred as a dramatic art form? | | | | |
| 43. | What are the primary elements of theater? | | | | |
| 44. | What do you understand from the above passage? | | | | |
| Write ab | Write about any one of the following topics in 100 words. (5 Marks) | | | | |
| 45 | Is competition among students good? Justify your answer. | | | | |
| 45. | True friendship | | | | |





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Max Marks: 100 Duration: 70 Min

===== ALL THE BEST ======

