

# ENGINEERING ACADEMY DEHRADUN

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Prep: Mr.Rahul Kothiyal

## Daily question paper Mechanical

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1. Multi – stage turbines are

- a) Reaction type
- b) Pressure compounded
- c) Velocity compounded
- d) All of these

2. In petrol engine, air – fuel ration is controlled by

- a) Distributer
- b) Injector
- c) Governor
- d) Carburettor

3. In diesel engine, the governor controls

- a) Fuel pressure
- b) Fuel volume
- c) Fuel flow rate
- d) Fuel temperature

4. A square engine has

- a) Square cylinder
- b) Square piston
- c) Cylinder bore equal to stroke length
- d) None of these

5. Which part is not common to diesel and petrol engines

- a) Air filter
- b) Battery
- c) Exhaust silencer
- d) Fuel injector

6. The firing order for six cylinder diesel engine is

- a) 1 , 3 , 5 , 2 , 4 , 6
- b) 1 , 5 , 3 , 6 , 2 , 4
- c) 1 , 4 , 2 , 6 , 3 , 5
- d) 1 , 6 , 3 , 5 , 2 , 4

7. Mixture formation in a carburettor is based on the principle of

- a) Pascal's law
- b) Buoyancy principle
- c) Venturi principle
- d) Pitot tube principle

8. Which will be the product, if iron ore goes through reduction and blast furnace treatment?

- a) Pig iron
- b) White cast iron
- c) Wrought iron
- d) Ductile cast iron

9. Amount of current required in electric resistance welding is regulated by changing the

- a) Input supply
- b) Primary turns of the transformers
- c) Secondary turns of the transformers
- d) All of these

10. In gas welding, maximum flame temperature occurs at

- a) Inner cone
- b) Outer cone
- c) Next to inner cone
- d) Tip of the flame

11. Material having highest cutting speed is

- a) Aluminium
- b) Bronze
- c) Cast iron
- d) High carbon steel

12. In lathe, the carriage and tailstock are guided on

- a) Same guide ways
- b) Different guide ways
- c) Not guided on guide ways
- d) Both (a) and (b)

13. In machine tools, chatter is due to

- a) Free vibrations
- b) Random vibrations

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- c) Forced vibrations  
d) Self- excited vibrations
14. The usual ratio of forward and return stroke in shaper is
- a) 2 : 1  
b) 1 : 2  
c) 2 : 3  
d) 3 : 2
15. Essential property of tool material used for high speed machining is
- a) Red hardness and impact resistance  
b) Red hardness and wear resistance  
c) Toughness and impact resistance  
d) Red hardness wear resistance and impact resistance
16. In gang milling
- a) Several jobs can be performed in one setup  
b) One job is completed on several milling machines location together  
c) Two or more cutters are mounted on the arbour and all of them remove the metal  
d) None of these
17. In grinding operation, for grinding softer materials
- a) Coarser grain size is used  
b) Fine grain size is used  
c) Medium grain size is used  
d) Any grain size may be used
18. Abrasive used for grinding ceramics and tungsten carbide is
- a) Diamond  
b) Aluminium oxide  
c) Silicon carbide  
d) Boron carbide
19. The work measurement is done by means of
- a) Planning chart  
b) Process chart  
c) Gantt chart  
d) Stop watch
20. The process of improving cutting action of a grind wheel is called
- a) Dressing operation  
b) Truing operation  
c) Cutting operation  
d) Facing operation
21. Crack is developed in grinding wheel due to
- a) Generation of heat  
b) High speed  
c) Slow speed  
d) Hard work piece
22. Part of universal grinding machine which can be swivelled with respect to table travel is
- a) Grinding wheel  
b) Table  
c) Head stock  
d) Table slide
23. Tolerance are specified
- a) To obtain desired fit  
b) Because it is not possible to manufacture a size exactly  
c) To obtain higher accuracy  
d) To have proper allowance
24. Point angle of  $135^\circ$  on drills is used for
- a) Hard steel and nickel alloys  
b) Thin sheet metal  
c) Both (a)and (b)  
d) None of these
25. Boring tool for boring a hole over a large length should have
- a) One tool bit on a bar  
b) Two tool bits fitted on diametrically opposite sides of bar  
c) Three tool bits equally spaced on a bar

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d) Four or more tool bits

26. Grinding wheel is balanced

- a) At the time of manufacture
- b) Before grinding operation
- c) After grinding operation
- d) Frequently

27. Grinding speed (surface meter per minute) is used for grinding plain carbon steel is

- a) 250 – 500
- b) 500 – 900
- c) 1000 – 1500
- d) 1500 - 2000

28. Buffing process is used

- a) To achieve flatness
- b) To achieve roundness
- c) To improve surface finish
- d) To obtain very smooth reflective surface

29. A hacksaw is specified by which of the parameter of the blade?

- a) Material
- b) Length
- c) Width
- d) Number of teeth

30. An important precaution to be observed during filing operation is

- a) Not to rub finger over file
- b) Not to rub finger over the work piece
- c) To apply equal pressure on file
- d) To support file properly

**For answer key send your mobile number at 08449597123(watsapp).**

