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ASSISTANT ENGINEER(MECHANICAL),IRRIGATION

EXAM DATE:05-04-2017

**1.The ratio of the actual work available at the turbine to energy imparted to the wheel is called:**

- A.Hydraulic efficiency
- B.Mechanical efficiency
- C.Overall efficiency
- D.Turbine efficiency

Ans:A

**2.A draft tube is used in:**

- A.Pelton wheel turbine
- B.Impulse turbine
- C.Francis turbine
- D.Very high specific speed turbines

Ans:C,D

**3.Choose the wrong statement:**

- A.Impulse type turbine is suited for high heads
- B.Propeller type turbine is suited for low heads
- C.Francis turbine is a medium head turbine
- D.Impulse type turbine is a high specific speed turbine

Ans:D

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**4.Saving of work done and power by fitting an air vessel to a single acting reciprocating pump is of the order:**

A.39.2%

B.49.2%

C.84.8%

D.68.8%

Ans:C

**5.Compressed air coming out from a punctured football:**

A.Bacomes hotter

B.Becomes cooler

C.Remains at same temperature

D.May initially hotter and attains atmospheric temperature

Ans:C

**6.The ratio of actual cycle efficiency to that of the ideal cycle efficiency is called:**

A.Isentropic efficiency

B.Effectiveness

C.Work ratio

D.Net efficiency

Ans:-----

**7Carnot cycle consists of following four processes:**

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- A.Two isothermals and two isentropics
- B.Two isentropics and two isochorics
- C.Two isentropics and two isobarics
- D.None of the above

Ans:A

**8.The expansion in a nozzle is a:**

- A.Isentropic process
- B.Adiabatic process
- C.Isochoric process
- D.Isobaric process

Ans:A

**9.When two gases suddenly mix up with each other then resultant entropy of the system will:**

- A.Decrease
- B.Remain same
- C.Increase
- D.May increase or decrease depending upon the initial value

Ans:C

**10.Following relationship defines Gibb's free energy G:**

- A. $G=H+TS$
- B. $G=H-TS$

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C. $G=U+TS$

D. $G=U-TS$

Ans:B

**11.Pick up the correct relationship from the following:**

A. $TdS=dH-Vdp$

B. $TdS=dH+Vdp$

C. $TdS=dU-Vdp$

D. $Tds=dH-pdV$

Ans:D

**12.All gases behave ideally under:**

A.High temperature conditions

B.Low pressure conditions

C.High pressure conditions

D.High pressure and high temperature conditions

Ans:A,B

**13.A diathermic wall is one which:**

A.Permits thermal interactions

B.Prevents thermal interactions

C.Encourages thermal interactions

D.Does not exist

Ans:A

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**14.During throttling process:**

- A.There is no change in internal energy
- B.No work is done
- C.Heat exchange does not takes place
- D.All of the above

Ans:D

**15.Dalton's law states that:**

- A.Pressure exerted by a mixture of gases in a fixed volume is equal to the sum of the pressure that would be exerted by each gas alone in the same volume
- B.Pressure exerted is same in all directions in a fixed volume
- C.All of the above
- D.None of the above

Ans:A

**16.Eutectoid steel contains the following percentage of carbon:**

- A.0.02%
- B.0.03%
- C.0.33%
- D.None of the above

Ans:D

**17.Induction hardening is the process of:**

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- A.Relieving of stresses throughout a component
- B.Heating and cooling suddenly
- C.Hardening the surface of a work piece to obtain a wear resistant surface
- D.Hardening core

Ans:C

**18.Depth of hardness of steel is increased by the addition of :**

- A.Nickel
- B.Chromium
- C.Tungsten
- D.Vanadium

Ans:B

**19.Pearlite is a combination of:**

- A.Territe and cementite
- B.Ferrite and austenite
- C.Ferrite and iron graphite
- D.Cementite and gamma iron

Ans:A

**20.Hypo eutectoid steels have carbon content:**

- A.Equal to 0.93%
- B.Less than 0.83%
- C.More than 0.93% and upto 2%

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D.More than 2%

Ans:B

**21.The effect of alloying zinc to copper is to:**

A.Improve welding characteristics

B.Improve hardness

C.Impart free machining properties

D.None of the above

Ans:D

**22.Pick up the wrong statement.Annealing results in:**

A.Refining grain structure

B.Relieving internal stresses

C.Improving wear resistance

D.Improving machinability

Ans:C

**23.Case hardening is the only method suitable for hardening:**

A.High alloy steel

B.High carbon steel

C.High speed steel

D.Low carbon steel

Ans:D

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**24.Martensite is the supersaturated solution of carbon in:**

- A.Iron
- B.Steel
- C.Alpha-iron
- D.Beta-iron

Ans:C

**25.Permalloy is a:**

- A.Nonferrous alloy
- B.Combination of nickel and iron alloy
- C.Alloy of tin,lead and cadmium
- D.Kind of stainless steel

Ans:B

**26The crystal structure of gamma iron is:**

- A.Body centered cubic
- B.Orthorhombic crystal
- C.Face centered cubic
- D.Hexagonally closed packed

Ans:C

**27.Following gases are used in Tungsten inert gas Welding:**

- A.Hydrogen and Oxygen

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B. Carbon dioxide and Oxygen

C. Helium and Neon

D. Argon and Helium

Ans:D

**28. Preheating is essential in welding of:**

A. High speed steel

B. Stainless steel

C. Cast iron

D. German silver

Ans:C

**29. Grey iron is usually welded by:**

A. Gas welding

B. Arc welding

C. TIG welding

D. MIG welding

Ans:A

**30. A process in which arc is maintained under a blanket of flux is called as:**

A. TIG welding

B. Submerged arc welding

C. Thermit welding

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D.None of the above

Ans:B

**31.The vacuum maintained in the electron beam welding is of the order:**

A.1 torr

B.5 torr

C. $10^{-1}$ torr

D. $10^{-5}$ torr

Ans:D

**32.Which of the following materials cannot be forged?**

A.Wrought iron

B.Cast iron

C.Mild steel

D.High speed steel

Ans:B

**33.A cylindrical section having no joints is called as:**

A.Seamless

B.Perfect

C.Pointless

D.Ideal

Ans:A

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**34.Which of the following rolling mills is required to reduce a slab directly to strip in one pass?**

- A.Continuous rolling mill
- B.Two high mill
- C.Planetary mill
- D.None of the above

Ans:C

**35.Symmetrical hollow parts of circular cross-section are made by hot:**

- A.Forging
- B.Drawing
- C.Extrusion
- D.Spining

Ans:D

**36.Flange wrinkling is the defect found in the following process:**

- A.Deep drawing
- B.Metal spinning
- C.Bending
- D.None of the above

Ans:A

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**37.If compression ratio of an engine working on Otto cycle is increased 3 to 6,its air standard efficiency will increase by:**

- A.1%
- B.20%
- C.8%
- D.Remain the same

Ans:---

**38.With increase in cut-off ratio,the thermal efficiency of a Diesel cycle having fixed compression ratio will:**

- A.Increase
- B.Decrease
- C.Remains the same
- D.May increase initially and then decreases

Ans:B

**39.Due to detonation the following parameters attains very high value:**

- A.Rate of temperature rise
- B.Peak temperature
- C.Rate of rise of horse power
- D.Rate of pressure rise

Ans:D

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**40.After cooler is used to:**

- A.Cool the air
- B.Reduce volume
- C.Cause moisture and oil vapour to drop out
- D.Increase pressure

Ans:C

**41.Compressor efficiency is the ratio of:**

- A.Isothermal horse power to indicated horse power
- B.Isothermal horse power to shaft horse power
- C.Compressor work to motor input
- D.Total output to air input

Ans:A

**42.Open cycle gas turbins works on:**

- A.Carnot cycle
- B.Brayton cycle
- C.Joules cycle
- D.Ranking cycle

Ans:B

**43.Intercooling in gas turbines results in:**

- A.Increase in net both thermal efficiency and net output

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- B.Increase in thermal efficiency but decrease in net output
- C.Decrease in both thermal efficiency and net output
- D.Increase in net output but decrease in thermal efficiency

Ans:D

**44.The concept of overall heat transfer coefficient is used in case of heat transfer by:**

- A.Radiation
- B.Conduction
- C.Conduction and convection
- D.Convection

Ans:C

**45.If there are 4 number of fundamental dimensions and 7 number of variables,then the number of pi terms for dimensional analysis will be:**

- A.4
- B.3
- C.7
- D.11

Ans:B

**46.Fourie's law of heat conduction is valid for:**

- A.One dimensional flow

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- B.Two dimensional flow
- C.Three dimensional flow
- D.None of the above

Ans:A

**47.Absorptivity of a body will be equal to its emissivity:**

- A.At all temperature
- B.At one particular temperature
- C.When system is in thermal equilibrium
- D.For a polished surface

Ans:C

**48.In free convection heat transfer,Nusselt number is a function of:**

- A.Reynolds number and Pandtl number
- B.Reynolds number and Grashoffs number
- C.Prandtl number and Grashoffs number
- D.None of the above

Ans:C

**49.The vapour compression refrigerator employs the following cycle**

- A.Reversed Carnot
- B.Reversed Rankline

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C.Reversed Brayton

D.Reversed Joules cycle

Ans:A

**50.Critical temperature is the temperature above which**

A.Water will evaporate

B.A gas will liquefy

C.Water will solidfy

D.None of the above

Ans:A

**51.In vapour compression cycle the condition of refrigeration is dry saturated vapour.**

A.After passing the condense

B.Before passing the expansion valve

C.After passing the throttle valve

D.Before entering the compressor

Ans:D

**52.Creep in belt drive is due to**

A.Larger size of the driver pulley

B.Material of the pulley

C.Uneven extensions and contractions due to varying tension

D.Expansion of belt

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Ans:C

**53.The gear which is used to transmit power from one rotating shaft to an other whose axes are neither parallel nor intersecting is**

- A.Spiral gear
- B.Worm gear
- C.Spur gear
- D.Bevel gear

Ans:A,B

**54.The brake commonly used on train bogies is**

- A.Band and block brake
- B.Electric brake
- C.Shoe brake
- D.Internal expanding

Ans:C

**55.The circle passing through the bottom of the teeth of gear is known as**

- A.Dedendum circle
- B.Prime circle
- C.Addendum circle
- D.Base circle

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Ans:A

### **56.According to law of gearing**

- A.Dedendum should be equal to 1.157 m
- B.Teeth should of cycloidal type
- C.Teeth should be of involute type
- D.None of these

Ans:D

### **57.Peaucellier mechanism has**

- A.Eight links
- B.Six links
- C.Four links
- D.Twelve links

Ans:A

### **58.Transmission of power from the engine to the rear axle of an automobile is by means of**

- A.Worm and wheel method
- B.Hooke's joint
- C.Crown gear
- D.Compound gears

Ans:B

### **59.Any point on a link connecting double slider crank chain**

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**will trace a**

- A.Circle
- B.Parabola
- C.Ellipse
- D.Straight line

Ans:C

**60.The gear train is which the first and last gear are on the same axis,is known as**

- A.Simple gear train
- B.Compuound gear train
- C.Epicyclic gear train
- D.Reverted gear train

Ans:D

**61.The power transmitted by a belt is maximum when the maximum tension in the belt compared to centrifugal tension is**

- A.2 times
- B.1.5 times
- C.3 times
- D.4 times

Ans:C

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**62.The included angle in Acme thread is**

- A.60 degree
- B.55 degree
- C.47.5 degree
- D.30 degree

Ans:D

**63.Choose the best suited type of screw thread for applications for stresses on threads in one direction only**

- A.Buttress
- B.Square
- C.Metric
- D.BSW

Ans:A

**64.Shaft coupling is used in machinery to**

- A.Alter the vibrating characteristics of rotating unit
- B.Reduce transmission of shock loads
- C.Introduce protection against over loads
- D.All of the above

Ans:D

**65.From coefficient of spring is defined as**

- A.Ratio of coil diameter to wire diameter

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- B.Load required to produce unit deflection
- C.The capability of storing energy
- D.None of the above

Ans:C

### **66.Back lash in spur gears is the**

- A.Difference between the dedendum of one gear and the addendum,of the mating gear
- B.Difference between the tooth space of one gear and the tooth thickness of mating gear measured on pitch circle
- C.Intentional extension of centre distance between two gears
- D.None of the above

Ans:B

### **67.In a laminated spring,the various strips are made of different length for the following reason**

- A.Reduction in weight
- B.Ease in fabrication
- C.Equal distribution of stress
- D.Space consideration

Ans:C

### **68.The diameter of shaft in any power transmission system is proportional to**

- A.Speed of the shaft

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B.Horse power to be transmitted

C.Torque to be transmitted

D.Allowable shear stress of the material

Ans:C

**69.Excessive back and forth movement of the crankshaft is prevented by**

A.Thrust bearing

B.Sleeve bearing

C.Shaft journal

D.Harmonic balance

Ans:A

**70.Piston pins are usually either a press fit in the rod or**

A.Locked to the rod with a bolt

B.Free floating in the rod and piston

C.Locked to the piston with a bolt

D.A press fit in the piston

Ans:A

**71.If no resistance is encountered by displacement,such a substance is known as**

A.Perfect solid

B.Perfect liquid

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C.Gas

D.Ideal fluid

Ans:D

**72.Pressure coefficient is the ratio of pressure force to**

A.Inertia force

B.Viscous force

C.Gravity force

D.Elasticity

Ans:A

**73.A stream line is defined as the line**

A.Parallel to central axis of flow

B.Parallel to outer surface of pipe

C.Along which the pressure drop is uniform

D.None of the above

Ans:A

**74.Two pipe systems can be said to be equivalent,when the following quantities are same:**

A.Velocity and diameter

B.Friction loss and flow

C.Length and diameter

D.Flow and length

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Ans:B

**75.For pipes,transition flow occurs when Reynolds number is:**

- A.Less than 2000
- B.In between 1800 and 2200
- C.In between 2300 and 4000
- D.More than 4000

Ans:C

**76.The hydraulic gradient line is:**

- A.Always moving up
- B.Always moving down
- C.The velocity head below the energy grade line
- D.Always above the energy grade line

Ans:B

**77.In a single casing,multi stage pump running at constant speed,how the capacity rating is to be lowered:**

- A.Coating a new material on the impeller
- B.Trimming the impeller size to the required size by machining
- C.Impossible
- D.None of the above

Ans:A

**78.Negative slip in a reciprocating pump occurs when:**

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- A.The speed of the pump is too high
- B.Actual discharge is greater than theoretical discharge
- C.All of the above
- D.None of the above

Ans:C

**79.Motionof liquid in volute casingof a centrifugal pump is an example of:**

- A.Spiral vortex flow
- B.Radial flow
- C.Forced cylindrical vortex flow
- D.Forced spiral vortex flow

Ans:D

**80.Guide angle as per the aerofoil theory of Kaplan turbine a blade design is defined as the angle between**

- A.Lift and resultant force
- B.Drag and resultant force
- C.Lift and tangential force
- D.Lift and drag

Ans:A

**81.Ibn Battuta visited India in the :**

- A.14<sup>th</sup> Century

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B.11<sup>th</sup> Century

C.17<sup>th</sup> Century

D.18<sup>th</sup> Century

Ans:A

**82. Who is considered as “The Grand Old Man of India”?**

A.A.O.Hume

B.S.N.Bannerji

C.Motilal Nehru

D.Dadabai Navaraji

Ans:D

**83. Kurichiya leader in the Pazhassi revolt:**

A.Kannavath Sankaran Nambiar

B.Thalakkal Chandu

C.Edachana Kungan Nair

D.Ambu Nair

Ans:B

**84. Political pupil of Gopala Krishna Gokhale:**

A.Sardar Vallabai Patel

B.Jawaharlal Nehru

C.Gadhiji

D.Azad

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Ans:C

**85.The first five year plan started in India in:**

A.1951

B.1948

C.1950

D.1949

Ans:A

**86.The Slogan “Garibi Hatavo”introduced by:**

A.Rajiv Gandhi

B.Lal Bahadur Sastri

C.Jayaprakash Narayan

D.Indira Gandhi

Ans:D

**87.The river flowing through Attapadi:**

A.Manimala River

B.Siruvani

C.Pampar

D.Kabani

Ans:B

**88.Capital of Assam:**

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- A.Dispur
- B.Impahi
- C.Itanagar
- D.Gangtok

Ans:A

**89.Father of Malayalam film:**

- A.Ramu Kariat
- B.K.G.George
- C.J.C.Daniel
- D.Adoor Gopalakrishnan

Ans:C

**90.The -----served as a corridor between the Carnatic and the Malabar Coast.**

- A.Bolan pass
- B.Khyber pass
- C.Aryankavu pass
- D.Palghat gap

Ans:D

**91.Early name of Mohammed Ali,America professional boxer and activist**

- A.Cassius clay

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B.Rocky Marciano

C.Jose Louis

D.Lennox Lewis

Ans:A

**92.The present Vice Chairman of Kerala State Planning Board:**

A.P.Ramachandran

B.N.Ramachandran

C.V.K.Ramachandran

D.Ramachandran

Ans:C

**93."Ace against Odds" is the autobiography of:**

A.Rafel Nadal

B.Sania Mirza

C.Andre Agass

D.Roger Federer

Ans:B

**94."Big Bang" theory is associated with:**

A.Alfred Wegener

B.Fred-Hoyle

C.Erasmus

D.Edwin Hubble

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Ans:D

**95.Lowest layer of Atmosphere:**

- A.Stratosphere
- B.Mesosphere
- C.Troposphere
- D.Thermosphere

Ans:C

**96.Ezhava Memorial was submitted to:**

- A.Sree Mulam Thirual
- B.Visakham Thirunal
- C.Ayilam Thirunal
- D.Uthram Thirunal

Ans:A

**97.Who founded Aryasamajam?**

- A.Subhananda Guru
- B.Velukutty Arayan
- C.Anandatheerdha
- D.Pandit Karuppan

Ans:D

**98.Yachana Yathra led by:**

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A.A.K.Gopalan

B.V.T.Bhattathirippad

C.Sahodaran Ayyappan

D.M.R.Bhattathirippad

Ans:B

**99."Atmaanuthapam" is the work of:**

A.Kuriakose Elias Chavara

B.Paulose Mar Gregorious

C.Philipose Mar Chrisostem

D.Paulose Mar Paulose

Ans:A

**100.Swedesabhimani Ramakrishna Pillai died at:**

A.Delhi

B.Burma

C.Kannur

D.Madras

Ans:C

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