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TRADESMAN-SMITHY(FORGING AND HEAT TREATING),TECHNICAL EDUCATION

EXAM DATE:03-10-2015

1.The 'Payyambalam Beach' is in:

A.Ernakulam

B.Kannur*

C.Kozhikode

D.Kasargod

Ans:B

2.The geographical area that lies between Northern Mountain Ranges and Peninsular Plateau is:

A.Indo-Ganetic Plain*

B.Western Ghat

C.Konkan Coast

D.Wynad

Ans:A

3.'The National Museum' is situated in:

A.Delhi*

B.Bangalore

C.Hyderabad

D.Vishakapattanam

Ans:A

4."Mangalyan',the satellite intended to study about Mars is launched by:

A.PSLV-125

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B.PCLV-D-10

C.ISRO-18

D.PSLV-C-25*

Ans:D

5.The renowned world leader who popularly known 'Madiba':

A.Martin Luther King

B.Gandhiji

C.Nelson Mandela*

D.Barrack Obama

Ans:C

6.The World Chess Champion of 2013 Magnus Karison is from:

A.Poland

B.Russia

C.U.S.A

D.Norway*

Ans:D

7.The port which is known 'Queen of Arabian sea':

A.Kochi*

B.Mumbai

C.Chennai

D.Azhikkal

Ans:A

8.The progressive movement of V.T.Bhattatirippad to uplift the Brahmins of Kerala:

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A.Namboodiri Sabha

B.Yogakshema Sabha*

C.NSS

D.Marar Sabha

Ans:B

9.The Indian writer who won the honour'Companion of the Indian Empire 'by the British:

A.Ravindranath Tagore

B.Muhammed Iqbal

C.Bankin Chandra Chatterji*

D.Amarthya Sen

Ans:C

10.'Bharathapuzha'originates from:

A.Vadasserimala

B.Kudiyamala

C.Karadimala

D.Anamala*

Ans:D

11.The pride of Indian Navy 'INS Sindhu Rashak'drowned 2013 August in:

A.Vishkapattnam

B.Mumbai*

C.Karachi

D.Kolkatta

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Ans:B

12.The Bengali writer assassinated by'Talibanists in Afghanistan is:

A.Sushmitha Banerji*

B.Devayani Vora

C.Deepak Sandhu

D.J.P.Sen

Ans:A

13.The Great Karnatik musician 'Dhakshinamoorthy 'was born in:

A.Chennai

B.Trissur

C.Kannur

D.Alapuzha*

Ans:D

14.The 'Atma Vidya Sangham'is a social-reform movement founded by:

A.Brahmananda Sivayogi

B.Kumara Guru

C.Vagbhatananda*

D.Annie Beasant

Ans:C

15.The South –West Monsoon starts from the month of:

A.October

B.June*

C.March

D.December

Ans:B

16.Gandhi's first experiment of Satyagraha in India was in:

- A.Sabarmathi
- B.Dandi
- C.Chambaran*
- D.Bombay

Ans:C

17.'Panmana Ashramam' is connected with:

- A.Sree Narayana Guru
- B.Kumaranasan
- C.Sister Alphonsamma
- D.Chattambi Swamikal*

Ans:D

18.The Political party formed by Dr.Ambedkar is-----

- A.Independent Labour Party*
- B.Indian Backward Party
- C.Forward Block
- D.Swarajist Party

Ans:A

19.The Malayali Physical Trainer who awarded 'Dronacharya'in 2013:

- A.P.T.Usha
- B.Dr.Sebastian Paul
- C.K.P.Thomas*
- D.Tinu Yohannan

Ans:C

20.The first public sector bank introduced 'Credit card' in India:

- A.State bank of India
- B.Central Bank of India*
- C.HDFC
- D.Federal bank

Ans:B

21.Smithy shope is the place where metals are:

- A.Selling
- B.Packing
- C.Cooling
- D.Heating*

Ans:D

22.A ferrous metal is one which:

- A.Contains aluminium
- B.Does not contain iron
- C.Contains iron*
- D.Mixture of copper and brass

Ans:C

23.Tongs is a tool for:

- A.Drilling
- B.Cleaning
- C.Holding*
- D.Placing

Ans:C

24.Mild steel belongs to the category of:

- A.Low-carbon steel*
- B.Tool steel
- C.High carbon steel
- D.Medium-Carbon steel

Ans:A

25.Anvil is used in:

- A.Foundry
- B.Smithy*
- C.Store
- D.Office

Ans:B

26.Mild steel has got the following metallic structure:

- A.Close packed hexagonal
- B.Face centered cubic structure
- C.Orthorhombic crystalline
- D.Body centered cubic structure*

Ans:D

27.Hammer is a:

- A.Striking tool*
- B.Holding tool
- C.Cleaning tool
- D.Painting tool

Ans:A

28.An Important product manufactured by the rolling process is:

- A.Rollers
- B.I-section*
- C.Discs
- D.Metal cans

Ans:B

29.In smithy metals are heated up to:

- A.Red hot*
- B.White hot
- C.Melting point
- D.Freezing point

Ans:A

30.In malleable iron,the carbon is present in the -----form.

- A.Flakes
- B.Spikes
- C.Nodular*
- D.Cementite

Ans:C

31.Upsetting is the process of increasing the:

- A.Length
- B.Thickness*
- C.Colour
- D.Surface finish

Ans:B

32.Steel is made from cast iron by removing all excess:

- A.Silicon
- B.Oxygen
- C.Sulphur
- D.Carbon*

Ans:D

33.Pritchel hole of the anvil is used to:

- A.Hot Punching*
- B.Holding a die
- C.Threading a nut
- D.Threading a bolt

Ans:A

34.The main purpose of heat treatment is to change the:

- A.Chemical composition
- B.Corrosion properties
- C.Mechanical properties*
- D.Surface fish

Ans:C

35.The beak or horn of the anvil is used for:

- A.Strighten
- B.Bending curves*
- C.Flatten
- D.Thicken

Ans:B

36.An Important process used in case hardening steel is:

- A.Cyaniding*
- B.Sperodizing
- C.Annealing
- D.Tempering

Ans:A

37.A forge shop tool which is used for many operations like squaring,sizing,heading,bending and forming operations:

- A.Tongs
- B.Flatter
- C.Swage block*
- D.Set-hammer

Ans:C

38.-----can be hardened only by Carburizing or Cyaniding

- A.Low Carbon steel*
- B.Alloy steel
- C.High Carbon steel
- D.Tool steel

Ans:A

39.The shape of the hardie hole in an anvil is:

- A.Round
- B.Square*
- C.Rectangle

D.Triangle

Ans:B

40.High alloy steels must be heated slowly and uniformly for hardening,to avoid:

A.Shrinkage

B.Segregation

C.Scaling

D.Warpage*

Ans:D

41.The chisel used to cutting metals in normal temperature:

A.Mortise chisel

B.Firmer chisel

C.Cold chisel*

D.Hot chisel

Ans:C

42.The element in steel which directly affects the critical temperature of the steel to be heat treated is:

A.Carbon*

B.Sulphur

C.Chromium

D.Phosphorus

Ans:A

43.For hot chiseling steel must be heated to a colour of:

A.White

B.Dark red

C.yellow

D.Light cherry red*

Ans:D

44.The heat-treatment process used to soften hard alloy and tool steel before machining is called:

A.Normalizing

B.Annealing*

C.Carburizing

D.Tempering

Ans:B

45.The cutting edge angle of a hot chisel is:

A.30 Degree*

B.45 Degree

C.60 Degree

D.90 Degree

Ans:A

46.Carbon steels are generally classified as:

A.Air-hardening steel

B.Hydrogen-hardening steel

C.Oil-hardening steel

D.Water-hardening steel*

Ans:D

47.The cutting edge of a hot chisel is slightly -----for better cutting action.

- A.Flattened
- B.Rounded*
- C.Sharpended
- D.Roughened

Ans:B

48.The cutting edge angle of a cold chisel is:

- A.30 degree
- B.45 degree
- C.60 degree*
- D.90 degree

Ans:C

49.Swages consist of -----parts

- A.One
- B.Two*
- C.Three
- D.Four

Ans:B

50.Machines which work on forgings by pressure is called-----

- A.Power presses*
- B.Power toys
- C.Power fluids
- D.Power lines

Ans:A

51.A punch is used for making-----in metal part when it is at forging heat.

- A.Threads
- B.Grooves
- C.Holes*
- D.Corners

Ans:C

52.Machines which work on forgings by blow are called-----

- A.Power tillers
- B.Power packs
- C.Power plants
- D.Power hammers*

Ans:D

53.Fullers are used for-----

- A.Necking Down*
- B.Flatten
- C.Making Hole
- D.Increasing Thickness

Ans:A

54.Forge chamfer on bolt head by a:

- A.Swaging tool
- B.Grinding tool
- C.Cupping tool*

D.Cuttng tool

Ans:C

55.Scarfingis the method of shaping the ends of rods for:

A.Arc welding

B.Forge welding*

C.Gas welding

D.Thermit welding

Ans:B

56.Forging operation-----the structure of metal.

A.Loosen

B.Enlarge

C.Entangle

D.Refines*

Ans:D

57.Upset Forging is the operation of making:

A.Arc welding

B.Forge welding*

C.Gas welding

D.Thermit welding

Ans:B

58.When large quantities of identical forgings are required in mass production:

A.Hand forging is used

B.Press forging is used

C.Die forging is used*

D.Hammer

Ans:C

59.The temperature of furnace used for heat-treating steel is measured and controlled by an instrument called:

A.Thermometer

B.Pyrometer*

C.Hydrometer

D.Speedometer

Ans:B

60.IF steel is galvanized,it is coated with:

A.Lead

B.Copper

C.Tin

D.Zinc*

Ans:D

61.For holding work of rectangular section----is used

A.Flat tong

B.Ring tong

C.Stright-lip fluted tong

D.Rivet tong*

Ans:D

62.The peen of a straight peen hammeris-----to its handle.

A.Inclined

B.Skew

C.Parallel*

D.Perpendicular

Ans:C

63.Of the following types of pipes of the same diameter,the one that is least corrosion resistant is:

A.Brass

B.Copper

C.Wrought iron

D.Steel*

Ans:D

64.The most important element which controls the physical properties of steel is:

A.Tungsten

B.Carbon*

C.Silicon

D.Manganese

Ans:B

65.The peen of a cross peen hammer is -----to its handle.

A.Inclined

B.Skew

C.Parallel

D.Perpendicular*

Ans:D

66.Large amounts of Silicon when added to steel will increase the -----properties of the steel.

- A.Refractory
- B.Mechanical
- C.Magnetic*
- D.Corrosive

Ans:C

67.The alloy steel used for Hot working having a relatively:

- A.High carbon content*
- B.Low carbon content
- C.Low sulphur content
- D.High oxygen content

Ans:A

68.The steel for drop forging is heated to a:

- A.Light heat
- B.Highly plastic state*
- C.Red hot
- D.Liquid state

Ans:B

69.The hardened parts must be -----to relieve the hardening strains and to increase the toughness of the parts.

- A.Tempered*
- B.Annealed
- C.Carburized

D.Anodized

Ans:A

70.To anneal hard steel,the steel must be heated above its critical temperature and then:

A.Cooled rapidly

B.Quenched in oil

C.Cooled slowly*

D.Quenched in water

Ans:C

71.The ability to heat metal most rapidly in:

A.Molten bath

B.Pit furnace

C.Smith forge

D.Electric furnace*

Ans:D

72.For nitriding steel components,the following atmosphere is generally used in the furnace:

A.Ammonia*

B.Nascent nitrogen

C.Liquid nitrogen

D.Inert gas

Ans:A

73.When a piece of high-carbon steel is heated to red hot,then plunged into cold water it will be:

- A. Case-hardened
- B. Hardened*
- C. Tempered
- D. Normalized

Ans: B

74. The steel must be heated up to the -----temperature and quenched for hardening.

- A. Eutectoid
- B. Eutectic
- C. Critical*
- D. Melting

Ans: C

75. The operation of removing the burr of the drop forged parts is known as:

- A. Trimming*
- B. Blanking
- C. Polishing
- D. Piercing

Ans: A

76. It is necessary to temper all parts after hardening:

- A. To increase the hardness
- B. To reduce the hardening strain*
- C. To reduce the scale formation
- D. To increase the brittleness

Ans:B

77.When hardening steel by the carburising process,after the steel has been heated to the correct temperature and for the correct amount of time,furnace is shut off and the steel is:

- A.Retained in the furnace to cool*
- B.Removed and quenched in air
- C.Removed and quenched in water
- D.Removed and quenched in oil

Ans:A

78.Proper control of the-----in a heat-treating furnace is necessary to prevail excessive scaling of parts being hardened.

- A.Atmosphere
- B.Fuel
- C.Draft
- D.Temperature*

Ans:D

79.An important scooter part produced by drop forging is:

- A.Piston
- B.Kick-start pedal*
- C.Cylinder
- D.Brake down

Ans:B

80.The process of softening a metal piece and removal of internal stress is called:

- A.Annealing*
- B.Planishing
- C.Burnishing
- D.Sheardizing

Ans:A

81.Connecting rods and Double ended spanners are manufactured in large quantities by-----process.

- A.Spining
- B.Forging*
- C.Punching
- D.Casting

Ans:B

82.The product which results from annealing white cast iron is called:

- A.Nodular iron
- B.Spheroidal iron
- C.Gray cast iron
- D.Malleable iron*

Ans:D

83.In hot working of metals,the temperature of material is:

- A.Above melting point of the material
- B.100 Degree Celsius
- C.Above recrystallisation temperature*
- D.Above room temperature

Ans:C

84.Which test is used to check the evenness of the coating on galvanized wire?

- A.Hydrochloric acid dio
- B.Warping test
- C.Reverse bend test
- D.Copper sulphate dip*

Ans:D

85.The deformation of material in cold working and hot working is:

- A.Viscous deformation
- B.Plastic deformation*
- C.Elastic deformation
- D.Isotropic deformation

Ans:B

86.What mechanical property is desired so that it can be forged?

- A.Ductility
- B.Elasticity
- C.Malleability*
- D.Brittleness

Ans:C

87.In which metal forming process the material is shaped by means of intermittent blows on it.

- A.Forging process*
- B.Rolling process
- C.Wire drawing process

D.Extrusion process

Ans:A

88.-----can be used to scribe lines parallel to the edges of the work.

A.Vernier caliper

B.Divider

C.Combination set

D.Hermaphrodite caliper*

Ans:D

89.Good quality scales for use in smithy shop measurements are usually made of:

A.Wood

B.Brass*

C.Plastic

D.Glass

Ans:B

90.In cold working of metals,the temperature of material is:

A.Room Temperature

B.Above room temperature

C.Below recrystallisation temperature*

D.Below room temperature

Ans:C

91.In an open heath,the work makes-----contact with fuel.

A.Direct*

B.Indirect

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C.No

D.Partly

Ans:A

92.The best fuel is for blacksmith's hearths is Charcoal,because it contains no:

A.Carbon

B.Phosphorus

C.Sulphur*

D.Potassium

Ans:C

93.In a heating furnace the work piece does not come into direct contact with the:

A.Air

B.Fuel*

C.Heat

D.Water

Ans:B

94.The blower is an attachment to the hearth for supplying:

A.Fuel

B.Fire brick

C.Work piece

D.Air*

Ans:D

95.With excessive heating the forgings suffer from:

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- A.Swellig
- B.Carburation
- C.Oxidation*
- D.Shrinkage

Ans:C

96.If the forging operaion is finished at a lower temperature,this leads to:

- A.Time saving
- B.Colour change
- C.Better surface finish
- D.Cold hardening and cracks*

Ans:D

97.The two faces of a sledge hammer are:

- A.Different
- B.Identical*
- D.Pointed
- D.Grooved

Ans:B

98.The body of the anvil is made of:

- A.Cast Iron
- B.Brass
- C.Mild steel*
- D.Tool steel

Ans:C

99.The hand hammers are made of:

- A.Mild steel
- B.High carbon steel
- C.Cast iron
- D.Cast steel*

Ans:D

100.Scarf weld is belongs to:

- A.Resistance welding
- B.Arc welding
- C.Gas welding
- D.Forge welding*

Ans:D