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UPMRC
Previous Year Paper
Fitter 12th May 2018



100 Questions

Que. 1 Select the most appropriate option to fill in the blank.

Apples contain some of _____ important minerals.

1. a
2. an
3. the
4. no word required

Correct Option - 3

Que. 2 Directions: Select the most appropriate preposition to fill in the blank.

One day, Kaku heard someone moaning _____ the forest.

1. on
2. at
3. in
4. into

Correct Option - 3

Que. 3 Select the word which is NOT the antonym of another word.

1. understand
2. unbeaten
3. unemployed
4. unmistakable

Correct Option - 1

Que. 4 Select the most appropriate meaning of the underlined idiom in the given sentence.

Finally he figured out what must have happened.

1. thought of
2. understood
3. was puzzled by
4. talked about

Correct Option - 2

Que. 5 The following sentence is divided in four parts. Choose the part that contains an error.

My Father / has been running / this poultry business / since the last fifteen years.

1. My Father
2. has been running
3. this poultry business
4. since the last fifteen years.

Correct Option - 4

Que. 6 Who among the following was the founder of Maratha Empire?

1. Sambhaji Bhonsle

2. Chhatrapati Shivaji
3. Baji Rao I
4. Balaji Baji Rao

Correct Option - 2

Que. 7 “Ramsar Convention” is related to

1. Climate Change
2. Pesticide Pollution
3. Ozone layer Depletion
4. Wetland Conservation

Correct Option - 4

Que. 8 Which of the following is not the power of the President?

1. To nominate 12 members in Rajya Sabha
2. Summon joint sitting on both houses
3. Final decision on anti defection of an MP.
4. Prior approval of Money Bill before place it in Parliament.

Correct Option - 3

Que. 9 The Chipko Movement was directly related to the prevention of:

1. Felling of trees
2. Soil erosion
3. Flooding of land
4. Wastage of water

Correct Option - 1

Que. 10 Which among the following is NOT a noble gas?

1. Argon
2. Boron
3. Krypton
4. Neon

Correct Option - 2

Que. 11 In India, Minorities Rights Day is observed every year on which date?

1. 18 December
2. 16 December
3. 15 December
4. 18 February

Correct Option - 1

Que. 12 Which one of the following rivers is **not** a Tributary of river Cauvery?

1. Hemvati
2. Arkavati
3. Amravati

4. Indravati

Correct Option - 4

Que. 13 The Credit linked Capital Subsidy Scheme launched (CLCSS) from?

1. SBI
2. RBI
3. Micro, Small and Medium Enterprises
4. NABARD

Correct Option - 3

Que. 14 Neelmani N. Raju has been appointed as _____ first woman Director General and Inspector General of Police (DG and IGP).

1. Kerala's
2. Karnataka's
3. Andhra Pradesh's
4. Tamil Nadu's

Correct Option - 2

Que. 15 How many medals did India win in 2016 Rio Olympics?

1. 2
2. 3
3. 1
4. 4

Correct Option - 1

Que. 16 Identify which number comes in the place of "?" in the below number series.

41, 39, 36, 31, 24, 13, "?"

1. 7
2. 5
3. 3
4. 0

Correct Option - 4

Que. 17 If Eye : Cataract, then Lungs : ? Select the correct analogy from below options.

1. Colitis
2. Bronchitis
3. Hepatitis
4. Jaundice

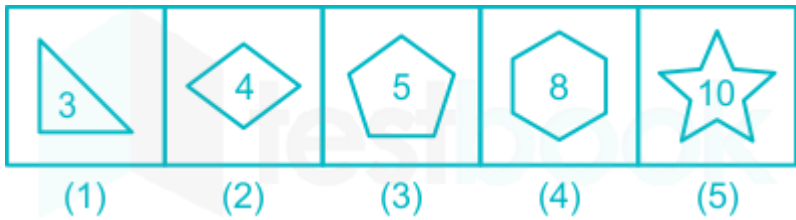
Correct Option - 2

Que. 18 Ritesh, Romesh, Rakesh, Ramesh, and Rajesh are five friends. They have just received their exam scores. Ritesh has scored more marks than Ramesh but lesser than Rajesh. Rakesh has scored more marks than Rajesh but less than Romesh. Who has scored the least scores in the exam?

1. Romesh
2. Rakesh

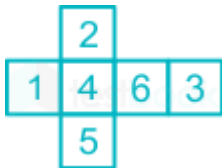
3. Rajesh
 4. Ramesh
- Correct Option - 4

Que. 19 From the below figures, identify the one which is different from the rest.



1. Figure 2
 2. Figure 3
 3. Figure 4
 4. Figure 5
- Correct Option - 3

Que. 20 If you fold the below cube, which of the statements in the given options is definitely true?



1. Numbers 1 and 3 are on opposite faces
 2. Numbers 2 and 5 are on adjacent faces
 3. Numbers 5 and 6 are on adjacent faces
 4. Numbers 3 and 4 are not on opposite faces
- Correct Option - 3

Que. 21 The value of $\frac{1\frac{1}{4} \div 1\frac{1}{2}}{\frac{1}{15} + 1 - \frac{9}{10}} \div 13\frac{1}{2} [4\frac{1}{2} \div \{3 - (2 - \frac{1}{2})\}] \times 4\frac{1}{2}$ is ?

1. $\frac{4}{3}$
 2. $\frac{5}{9}$
 3. $\frac{5}{6}$
 4. $\frac{8}{3}$
- Correct Option - 2

Que. 22 A person bought a table and a chair for Rs. 6,000. He sold the table at a gain of 20% and the chair at a loss of 10%, thereby gaining 4% on the whole. What is the difference between the cost the table and chair?

1. Rs. 320
2. Rs. 360
3. Rs. 400

4. Rs. 480

Correct Option - 3

Que. 23 A invested a sum of Rs 38,000 in a business. After a few months, B joined him with a sum of Rs. 28,500. At the end of the year, the total profit was divided between A and B in the ratio 2 : 1. After how many months did B join A?

1. 8
2. 6
3. 4
4. 3

Correct Option - 3

Que. 24 Two trains running on parallel tracks in opposite directions cross a man standing on the platform in 27 seconds and 20 seconds respectively and they cross each other in 24 seconds. The ratio of their speeds is:

1. 3 : 2
2. 2 : 1
3. 5 : 3
4. 4 : 3

Correct Option - 4

Que. 25 If $x + x^{-1} = 4$, then the value of $\frac{(x^3 + x^{-1})}{(x^2 - 3x + 1)}$ is:

1. 14
2. 12
3. 13
4. 11

Correct Option - 1

Que. 26 The least count of a common type of vernier caliper falls under the graduations of:

1. 0.02 mm
2. 0.05 mm
3. 0.01 mm
4. 0.03 mm

Correct Option - 1

Que. 27 Which one of the following angle of the point, in a center punch?

1. 45°
2. 30°
3. 90°
4. 25°

Correct Option - 3

Que. 28 The middle portion of the hammer head is called as:

1. Pein

2. Eye hole
3. Face
4. Cheek

Correct Option - 4

Que. 29 Grade A 'V' blocks are available only up to _____ length.

1. 100 mm
2. 500 mm
3. 700 mm
4. 900 mm

Correct Option - 1

Que. 30 Which of the following are good conductors of heat and electricity?

1. Lead and plastic
2. Copper and aluminium
3. Tin and plastic
4. Gold and silver

Correct Option - 2

Que. 31 The property of metal by virtue of which it melts when heat is applied:

1. Malleability
2. Hardness
3. Ductility
4. Fusibility

Correct Option - 4

Que. 32 Which of the following property is opposite to brittleness?

1. Hardness
2. Fusibility
3. Toughness
4. Tenacity

Correct Option - 3

Que. 33 Which of the following metals have a granular structure?

1. Bronze and cast iron
2. Copper and aluminium
3. Tin and plastic
4. Lead and plastic

Correct Option - 1

Que. 34 On which part of the vernier height gauge, are the main scale divisions are graduated?

1. Base
2. Vernier plate
3. Disc

4. Beam

Correct Option - 4

Que. 35 The vernier bevel protractor is a precision instrument measuring angles to an accuracy of _____ minutes.

- 1. 2
- 2. 3
- 3. 5
- 4. 4

Correct Option - 3

Que. 36 The value of each main scale division of Vernier bevel protractor is taken as:

- 1. 1°
- 2. 5°
- 3. 11°
- 4. 15°

Correct Option - 1

Que. 37 The smallest inside micrometer has the graduation marked on the sleeve to a range of:

- 1. 12 mm
- 2. 13 mm
- 3. 14 mm
- 4. 15 mm

Correct Option - 2

Que. 38 The sensitive bench drilling machine is capable of drilling holes up to:

- 1. 10 mm
- 2. 30 mm
- 3. 25.5 mm
- 4. 12.5 mm

Correct Option - 4

Que. 39 A hole, which is not made through full depth of the component is normally is known as:

- 1. Bore hole
- 2. Blind hole
- 3. Pin hole
- 4. Core hole

Correct Option - 2

Que. 40 Drills are provided with five different sizes of morse tapers, numbered from:

- 1. MT 1 to MT 5
- 2. CT 2 to CT 6
- 3. MT 3 to MT 8
- 4. CT 3 to CT 8

Correct Option - 1

Que. 41 The point of angles of a general purpose (standard) drill is:

1. 148°
2. 138°
3. 118°
4. 128°

Correct Option - 3

Que. 42 Which one of the following is suitable cutting fluid for drilling M. S. plate?

1. Water
2. Compressed air
3. Acid
4. Soluble oil

Correct Option - 4

Que. 43 A Hatchet type soldering has shank fitted at 90° to the head having _____.

1. V - shaped
2. H - shaped
3. B - shaped
4. M - shaped

Correct Option - 1

Que. 44 Melting point in hard solders lies above _____.

1. 350°C
2. 450°C
3. 150°C
4. 250°C

Correct Option - 2

Que. 45 Non-metallic materials that are used at the time of soldering are called as?

1. Flat
2. Foam
3. Silver
4. Flux

Correct Option - 4

Que. 46 Which of the following flux material is extremely corrosive and used for soldering the copper sheets, brass sheets and tin plates?

1. Zinc chloride
2. Copper chloride
3. Aluminium chloride
4. Silver chloride

Correct Option - 1

Que. 47 Whenever a leakage (Whatever leakage) is noticed, rectify it immediately to avoid _____.

1. High voltage
2. Low voltage
3. Flux
4. Fire hazards

Correct Option - 4

Que. 48 Heating the metal before the welding or cutting operation is known as:

1. Kerf
2. Oxidation
3. Preheating
4. Ignition point

Correct Option - 3

Que. 49 In an acetylene cylinder the acetylene is dissolved in:

1. Mercury
2. Acetone
3. Water
4. Silver oxide

Correct Option - 2

Que. 50 Which fuel gas is used for underwater cutting in deep water?

1. Hydrogen
2. Acetone
3. LPG
4. Methane

Correct Option - 1

Que. 51 If the blowpipe is moved to and fro frequently while cutting, the kerf will:

1. Be more
2. Be less
3. Not be affected
4. Not be in size

Correct Option - 1

Que. 52 _____ is the distance a drill advances into the work piece in one complete rotation.

1. Flux
2. Drill diameter
3. RPM
4. Feed

Correct Option - 4

Que. 53 Which angle makes rake angle in a twist drill?

1. Point angle

2. Chisel angle
3. Helix angle
4. Lip clearance angle

Correct Option - 3

Que. 54 Which one of the following is used to check the internal and external radius of work pieces?

1. Radius gauges
2. Vernier caliper
3. Scale
4. Screw gauge

Correct Option - 1

Que. 55 The carbon content of cast iron ranges from _____.

1. 10 to 12%
2. 2 to 4%
3. 8 to 14%
4. 12 to 14%

Correct Option - 2

Que. 56 Which of the following material is dimensionally stable after a period of aging?

1. Grey cast iron
2. Silver oxide
3. Copper nitrate
4. H₂O

Correct Option - 1

Que. 57 Which of the following material is very difficult to be welded?

1. Copper
2. Aluminium
3. White cast iron
4. Silver

Correct Option - 3

Que. 58 Nodular cast iron is also called as:

1. Graphite iron
2. Malleable cast iron
3. Grey cast iron
4. White cast iron

Correct Option - 1

Que. 59 The molten limestone combines with sand and other impurities and floats. This phenomenon is called as:

1. Flux
2. Slag

3. Silver oxide
4. Zinc oxide

Correct Option - 2

Que. 60 Which of the following metals is the purest form of iron?

1. Cast iron
2. Wrought iron
3. Grey cast iron
4. White cast iron

Correct Option - 2

Que. 61 Aston or Byers process is used to make a:

1. Wrought iron
2. Cast iron
3. Gold
4. Aluminium

Correct Option - 1

Que. 62 The percentage of carbon available in mild steel is?

1. 3% to 6%
2. 0.15% to 0.3%
3. 6% to 9%
4. 0.75% to 0.99%

Correct Option - 2

Que. 63 Bokaro steel plant is located in:

1. Jharkand
2. Odisha
3. West Bengal
4. Madhya Pradesh

Correct Option - 1

Que. 64 The machine tool on which turning is carried out is known as a:

1. Aston process
2. Universal testing machine
3. Lathe
4. Furnace

Correct Option - 3

Que. 65 Normally the carriage of a lathe travels along which axis?

1. Horizontal axis
2. Vertical axis
3. Bending axis
4. Lead axis

Correct Option - 1

Que. 66 In a lathe, a follower steady is fixed on the:

1. Saddle
2. Bed
3. Face plate
4. Tailstock

Correct Option - 1

Que. 67 Steady rest pads of lathe accessories are made of which of the following materials?

1. Aluminium
2. Silver
3. Lead
4. Brass

Correct Option - 4

Que. 68 The tip of a cemented carbide tool is joined on the shank by _____.

1. welding
2. carbinising
3. brazing
4. soldering

Correct Option - 3

Que. 69 In a lathe, the compound rest is fitted on the top and the front of the cross-slide, which can be swiveled horizontally through _____.

1. 180°
2. 90°
3. 360°
4. 160°

Correct Option - 3

Que. 70 By using single point tool, the thread cutting on a tool moves in a _____ path.

1. Helix
2. Cycloid
3. Rake
4. Blind

Correct Option - 1

Que. 71 A mild steel job is to be turned to 12 mm diameter on a center lathe. The cutting speed is 25 m/min. Calculate the rpm.

1. 763.15
2. 663.15
3. 863.15
4. 963.15

Correct Option - 2

Que. 72 The shape of nut is commonly:

1. Bearing
2. Flat
3. Triangle
4. Hexagonal

Correct Option - 4

Que. 73 A key that fits into a semicircular keyway cut in the shaft is:

1. Saddle key
2. Woodruff key
3. Normal key
4. Circular key

Correct Option - 2

Que. 74 Which one of the gauges are used to check the accuracy of an external thread?

1. Thread ring gauges
2. Snap gauges
3. Taper ring gauges
4. Vernier gauges

Correct Option - 1

Que. 75 The thickness of hexagonal lock nut may be in the range of _____. (d - Diameter of the bolt)

1. 0.2 d to 0.3 d
2. 0.6 d to 0.8 d
3. 1.6 d to 2.8 d
4. 3.6 d to 4.8 d

Correct Option - 2

Que. 76 Castle nut is available in the sizes of:

1. M2 to M40
2. M14 to M112
3. M14 to M157
4. M4 to M100

Correct Option - 4

Que. 77 The three types of Fully threaded stud bolts are:

1. A, B, C
2. X, Y, Z
3. Q, P, R
4. N, P, R

Correct Option - 1

Que. 78 Which of the following abrasive materials is used for lapping soft steel?

1. Diamond
2. Boron oxide
3. Silver oxide
4. Aluminium oxide

Correct Option - 4

Que. 79 The movement of tool in honing machine during operation is:

1. Vertical and reciprocating
2. Horizontal
3. Vertical
4. Normal

Correct Option - 1

Que. 80 Rollers of very small diameter are called as:

1. Angular bearing
2. Cage Rollers
3. Needle rollers
4. Races rollers

Correct Option - 3

Que. 81 The load applied, parallel to the axis of the bearing, is called as:

1. Centre load
2. Shear load
3. Bending load
4. Thrust load

Correct Option - 4

Que. 82 Which of the following material is used as bearing metal for light loading and low speed applications?

1. White metal
2. Cast iron
3. Sintered alloys
4. Copper

Correct Option - 2

Que. 83 _____ bearing needs no lubrication as it has self-lubricating properties.

1. White metal
2. Sintered Alloys
3. Nylon
4. Copper

Correct Option - 3

Que. 84 Which one of the following mediums is used for the fastest cooling rate of steel quenching?

1. Air

2. Oil
3. Water
4. Brine

Correct Option - 4

Que. 85 Reheating the hardened steel to a temperature below 400°C, followed by cooling, is known as:

1. Tempering
2. Hardness
3. Bending
4. Twisting

Correct Option - 1

Que. 86 Which one of the following accommodates four pipes in a pipe fitting?

1. Union
2. Cross
3. Tee
4. Elbow

Correct Option - 2

Que. 87 The included angle of pipe thread is around:

1. 15°
2. 55°
3. 10°
4. 75°

Correct Option - 2

Que. 88 The Non-return valve always permits water supply in:

1. Four way
2. Two way
3. One way
4. Three way

Correct Option - 3

Que. 89 The maximum diameter bend of pipe by hydraulic pipe bending machine is:

1. 75 mm
2. 100 mm
3. 10 mm
4. 25 mm

Correct Option - 1

Que. 90 The pressure in globe valve is normally:

1. On the left side
2. On the right side
3. Top of pipe

4. Under the seat

Correct Option - 4

Que. 91 Which one of the threads is strong and frequently used for power transmission?

1. Buttress
2. Square
3. Acme
4. BSW

Correct Option - 3

Que. 92 Which one of the following couplings has yoke on each shaft?

1. Fluid coupling
2. Rigid coupling
3. Universal coupling
4. Normal coupling

Correct Option - 3

Que. 93 In a gear, the addition of addendum and dedendum is equal to:

1. Normal depth
2. Whole depth
3. Working depth
4. Flank depth

Correct Option - 2

Que. 94 The planet gearing used in differentials is one of the type of:

1. Epicyclic
2. Parabola
3. Hyperbola
4. Square

Correct Option - 1

Que. 95 The normal ratio of soluble oil and water used as coolant is:

1. 1 : 30
2. 1 : 20
3. 12 : 100
4. 12 : 75

Correct Option - 2

Que. 96 While machining cast iron, the coolant used should be the following one:

1. Gear oil
2. Oil
3. Mercury
4. Dry air

Correct Option - 4

Que. 97 The good example of splash lubricant is:

1. Oilcan
2. Rolling oil
3. Ring lubricator
4. Resin

Correct Option - 3

Que. 98 The study of pneumatics deals with operated with the following one:

1. Water
2. Air
3. Oil
4. Vacuum

Correct Option - 2

Que. 99 Normally the storage space for a fluid is called:

1. Pump
2. Plug
3. Strainer
4. Reservoir

Correct Option - 4

Que. 100 In a pneumatic system, a sensor serves the purpose of:

1. Feedback
2. Control
3. Flux
4. Storage

Correct Option - 1

