Choose the correct answer.

1 Anyone who wants to become an engineer should study ... and physics.

a. **A** biology
b. **B** chemistry
c. **C** mathematics

2 The university offers studies in many different ... focused mainly on the sciences.

a. **A** disciplines
b. **B** designs
c. **C** technologies

3 One task that engineers commonly undertake is ... complex machines to make sure they are functioning properly.

a. **A** designing
b. **B** developing
c. **C** inspecting

4 Most stadiums are built in the shape of a(n) ... .

a. **A** prism
b. **B** cylinder
c. **C** oval

5 ... help to support arches while adding style to buildings.

a. **A** Columns
b. **B** Vaults
c. **C** Ellipses

6 A ... has four sides that are equal in length.

a. **A** rectangle
b. **B** square
c. **C** prism

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7 The Martins had their builder use ... so that they wouldn't have to deal with rust.

a. **A** stainless steel
b. **B** cement
c. **C** porcelain

8 The ... that Maggie bought to build a new wooden fence wasn't very expensive.

a. **A** concrete
b. **B** lumber
c. **C** tiles

9 ... glass is one of the strongest types of glass you can buy.

a. **A** Reinforced
b. **B** Standard
c. **C** Coated

10 Use a ... to hold these two pieces of wood together while you cut them.

a. **A** soldering iron
b. **B** vise
c. **C** drill

11 I'll need a ... in order to remove the screws from the doorknob.

a. **A** drill
b. **B** solder
c. **C** screwdriver

12 John ... the wires before applying solder to them.

a. **A** fused
b. **B** stripped
c. **C** removed

13 A moving object transfers its ... energy to a non-moving object on impact.

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a. **A** potential
b. **B** work
c. **C** kinetic

14 Stretching seatbelts ... the passenger's stopping distance in the event of a crash.

a. **A** increase
b. **B** transfer
c. **C** decrease

15 A short stopping distance causes a lot of ... to be exerted on passengers in a crash.

a. **A** force
b. **B** work
c. **C** brakes

16 A ... provides support to levers and allows them to pivot.

a. **A** wedge
b. **B** fulcrum
c. **C** pulley

17 ... are especially important for providing wheelchair access to buildings.

a. **A** Pulleys
b. **B** Inclined planes
c. **C** Wheel and axles

18 People often use ... to help them split firewood.

a. **A** screws
b. **B** loads
c. **C** wedges

19 Another way of saying five to the third power is five ... .

a. **A** squared

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b. **B** percent
c. **C** cubed

20 Five hundredths expressed as a figure is ... .

a. **A** 0.5
b. **B** 0.05
c. **C** 0.005

21 One half is another way of saying fifty ... .

a. **A** thousandths
b. **B** exponents
c. **C** percent

22 People who use imperial measurements measure height in ... .

a. **A** feet
b. **B** liters
c. **C** meters

23 Three hundred and fifty centimeters is equal to 3.5 ... .

a. **A** meters
b. **B** feet
c. **C** inches

24 The metric system equivalent to pounds is ... .

a. **A** liters
b. **B** gallons
c. **C** kilograms

25 My ... as to why your car keeps overheating is that it is leaking coolant fluid.

a. **A** observation
b. **B** hypothesis
c. **C** procedure

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26 Windows that aren't properly sealed ... heat quickly.

a. **A** dissipate
b. **B** control
c. **C** analyze

27 Make sure to record all of your ... while you are conducting the experiment.

a. **A** results
b. **B** methodology
c. **C** data

28 Our ... is to soak each piece of fabric in water and then to record how long each one takes to dry.

a. **A** procedure
b. **B** hypothesis
c. **C** variable

29 Smoking is ... on most commercial flights.

a. **A** precaution
b. **B** accident
c. **C** prohibited

30 You should wear ... to protect your eyes while you're working.

a. **A** gloves
b. **B** goggles
c. **C** first aid

31 If you don't take the proper precautions you can have a serious ... .

a. **A** accident
b. **B** shock
c. **C** hazard

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32 Places with a high level of poverty often lack a proper ..., which can lead to the spreading of many diseases.

a. **A** road construction
b. **B** civil engineer
c. **C** water supply

33 The population of the city has increased so quickly and dramatically that the existing ... can no longer support it.

a. **A** infrastructure
b. **B** land development
c. **C** construction

34 The next major ... project that our city is planning is the new stadium.

a. **A** municipal
b. **B** residential
c. **C** commercial

35 We'll need to make a ... model of the city in order to show the city council members where the park will be built.

a. **A** municipal
b. **B** construction
c. **C** topographical

36 Biodiesel is an example of a(n) ... fuel.

a. **A** chemical
b. **B** fossil
c. **C** alternative

37 The majority of the world's energy comes from ... .

a. **A** diesel
b. **B** fossil fuels
c. **C** plants

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38 Fuel that comes from petroleum is ... .

a. **A** toxic
b. **B** biodiesel
c. **C** renewable

39 This community collects ... waste, such as food scraps and plant materials, and uses it to produce compost for the garden in the park.

a. **A** biodegradable
b. **B** toxic
c. **C** fuel

40 The engineers built a virtual model of the new system using ... .

a. **A** CFD
b. **B** CAM
c. **C** CAD

41 Many houses in this neighborhood contain ... in the form of water heaters.

a. **A** prototypes
b. **B** pressure vessels
c. **C** CAMs

42 The machine stopped working due to one broken ... .

a. **A** simulation
b. **B** stress
c. **C** mechanism

43 We'll need to build a ... so that we can work on refining the design.

a. **A** prototype
b. **B** pressure vessel
c. **C** CFD

44 A computer's ... is responsible for taking the appropriate amount of electricity from the electrical outlet.

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a. **A** integrated circuit
b. **B** power supply
c. **C** circuit card assembly

45 This particular power tool requires an input voltage of 120 ... .

a. **A** volts
b. **B** watts
c. **C** circuits

46 A computer's main ... is the motherboard.

a. **A** circuit
b. **B** output voltage
c. **C** component

47 Our company has a ... agreement with a company in India to produce some of our equipment.

a. **A** thrust
b. **B** licensed production
c. **C** flyaway value

48 In order for a plane to fly, the ... must be greater than the drag.

a. **A** launch
b. **B** ramjets
c. **C** thrust

49 The cruising ... of this aircraft is 567 mph.

a. **A** velocity
b. **B** propellant
c. **C** launch

50 The ... of the new fighter jet is 7,000 pounds.

a. **A** flyaway value
b. **B** internal fuel capacity
c. **C** velocity

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