

## PROVISIONAL ANSWER KEY

Question 18/2024/OL

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Code:

Exam: Moulder

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Department Kerala State Water Transport

Question1:-PPE 5 stands for

A:-Helmet

B:-Safety foot wear

C:-Eyes and face protection

D:-Ears protection

Correct Answer:- Option-C

Question2:-ABC stands for

A:-Airway, Bleeding, Circulation

B:-Airway, Breathing, Circulation

C:-Air circulation, Bleeding, Control

D:-Air passage, Bleeding, Circulation

Correct Answer:- Option-B

Question3:-Class C fire is used for

A:-Involving metals

B:-Flammable liquids

C:-Gas and liquid gas

D:-Wood, paper, cloth etc.

Correct Answer:- Option-C

Question4:-The fuel used in a blacksmiths hearth for hand forging is

A:-Wood

B:-Charcoal

C:-Stone coal

D:-Coconut shell

Correct Answer:- Option-B

Question5:-The function of fuel in forging is

A:-To make fire

B:-To obtain certain heat

C:-To make the job

D:-To harden the job

Correct Answer:- Option-B

Question6:-The anvil is made out of

A:-Mild steel

B:-Wrought iron

C:-Cast steel

D:-High carbon steel

Correct Answer:- Option-C

Question7:-The anvil is used for

A:-To support the job

B:-To beat the job

C:-Finishing the job

D:-To cool the job

Correct Answer:- Option-A

Question8:-The beak of anvil used for

A:-Drawing out

B:-Bending to round shape

C:-Bending the work at right angles

D:-Inserting hardie and stakes

Correct Answer:- Option-B

Question9:-Swage blocks are made out of

A:-Wrought iron

B:-Cast iron

C:-Pig iron

D:-Brass

Correct Answer:- Option-B

Question10:-The usage of grooves and slots provided on the swage block

A:-To cool the job

B:-To shape the job

C:-To cut the job

D:-To upset the job

Correct Answer:- Option-B

Question11:-Tongs are used for

A:-To hold the job

B:-To beat the job

C:-Drawing out

D:-To cut off

Correct Answer:- Option-A

Question12:-Flat tongs are used

A:-To hold circular job

B:-Rectangular jobs

C:-Heavy jobs

D:-Light weight jobs

Correct Answer:- Option-B

Question13:-The specification of hammer is

A:-Its weight

B:-Weight and shape of peen

C:-Shape and size

D:-Its shape

Correct Answer:- Option-B

Question14:-The weight of hammer is stamped on

A:-Head

B:-Face

C:-Cheek

D:-Shoulder

Correct Answer:- Option-C

Question15:-The slight convexity is given to the cutting edge of the chisel is

A:-Cut curved surfaces

B:-Cut sharp corners

C:-Prevent digging of the ends

D:-Allow the lubricant to enter

Correct Answer:- Option-C

Question16:-The clearance angle of a chisel is the angle between

A:-The working surface and the bottom surface of the cutting edge

B:-Working surface and the top of the cutting edge

C:-Working surface perpendicular to the cutting edge

D:-Line perpendicular to the working surface and bottom of the cutting edge

Correct Answer:- Option-D

Question17:-The pitch of the wave set blade is

A:-1 mm

B:-0.8 mm

C:-2 mm

D:-1.8 mm

Correct Answer:- Option-B

Question18:-Hacksaw blades are specified by

A:-Width, thickness, length

B:-Length, pitch and type of material

C:-Length, pitch and width

D:-Length, pitch and thickness

Correct Answer:- Option-B

Question19:-The angle of centre punch is

A:-60°

B:-30°

C:-90°

D:-45°

Correct Answer:- Option-C

Question20:-The angle of dot punch is

A:-60°

B:-30°

C:-90°

D:-45°

Correct Answer:- Option-A

Question21:-The tool used to measure length in forging shop is

A:-Steel rule

B:-Brass rule

C:-Steel tape

D:-Hook rule

Correct Answer:- Option-B

Question22:-The tool used for transferring and stepping off distances

A:-Outside caliper

B:-Inside caliper

C:-Divider

D:-Jenny caliper

Correct Answer:- Option-C

Question23:-Files are classified according to their

A:-Cut, grade, width and length

B:-Length, shape, cut and grade

C:-Length, shape, width and cut

D:-Length, grade and width

Correct Answer:- Option-B

Question24:-The second cut file is used for

A:-Heavy reduction of metals

B:-To give good finish

C:-Larger quantity of metal

D:-Remove small quantity of metal

Correct Answer:- Option-B

Question25:-In double cut file, the overcut is

A:-60°

B:-70°

C:-51°

D:-45°

Correct Answer:- Option-B

Question26:-The file used in cases where there is a heavy reduction of metal is

A:-Rough file

B:-Bastard file

C:-Second cut file

D:-Smooth file

Correct Answer:- Option-B

Question27:-The other name of jenny caliper is

A:-Outside caliper

B:-Inside caliper

C:-Hermaphrodite caliper

D:-Firm joint type caliper

Correct Answer:- Option-C

Question28:-Bench vice is made of

A:-Wrought iron

B:-Pig iron

C:-High speed steel

D:-Cast iron

Correct Answer:- Option-D

Question29:-The included angle of VEE in v-blocks is

A:-60°

B:-45°

C:-90°

D:-120°

Correct Answer:- Option-C

Question30:-The accuracy of try-square is

A:-0.001 mm per 10 mm length

B:-0.002 mm per 10 mm length

C:-0.01 mm per 10 mm length

D:-0.02 mm per 10 mm length

Correct Answer:- Option-B

Question31:-"Never lean on the machine" is comes under

A:-Machine safety

B:-General safety

C:-Personal safety

D:-Road safety

Correct Answer:- Option-C

Question32:-Which of the statement mentioned is not correct ?

1. Do not give an unconscious person any food or drink
2. Splash water on the face of the unconscious person
3. Do not leave the person alone
4. Do not place a pillow under the head of the unconscious person

A:-1 & 2

B:-3 & 4

C:-2 & 3

D:-2 only

Correct Answer:- Option-D

Question33:-Unguarded machinery is a

A:-Physical hazard

B:-Physiological hazard

C:-Ergonomic hazard

D:-Mechanical hazard

Correct Answer:- Option-D

Question34:-The three factors of collision causes are

1. Roads
2. Vehicles
3. Pedestrians
4. Drivers

A:-1, 2 & 3

B:-1, 2 & 4

C:-2, 3 & 4

D:-1, 3 & 4

Correct Answer:- Option-B

Question35:-A material which can permanently be extended in all directions, the material is said to be

A:-Ductile

B:-Malleable

C:-Elastic

D:-Tenacious

Correct Answer:- Option-B

Question36:-Because of the \_\_\_\_\_ content, cast iron provides an excellent bearing and sliding surface.

A:-Carbon

B:-Chromium

C:-Graphite

D:-Vanadium

Correct Answer:- Option-C

Question37:-The ultimate tensile strength of wrought iron is about

A:-150 newton per sq.mm

B:-150 newton per sq.m

C:-350 newton per sq.cm

D:-350 newton per sq.mm

Correct Answer:- Option-D

Question38:-In cartridge brass the percentage of copper and zinc is

A:-50 : 50

B:-60 : 40

C:-70 : 30

D:-40 : 60

Correct Answer:- Option-C

Question39:-Which comes under chemical occupational hazard ?

A:-Sickness

B:-Smoking

C:-Infection

D:-Corrosive

Correct Answer:- Option-D

Question40:-What is the use of strike-off-Bar ?

A:-Remove the excess sand from mould

B:-Sleek the mould

C:-Ram the sand

D:-Handle the sand

Correct Answer:- Option-A

Question41:-What is the purpose of make denseners by same metal of casting ?

A:-For safe and reliable

B:-For modifying casting properties

C:-Fuse and become part of casting

D:-For casting smooth surfaces

Correct Answer:- Option-C

Question42:-What is the abbreviation of OSI related to network system ?

A:-Open Source Internet

B:-Open System Interaction

C:-Open Source Interconnection

D:-Open System Interconnection

Correct Answer:- Option-D

Question43:-In admiralty gun metal the percentage of Tin is

A:-10%

B:-88%

C:-2%

D:-20%

Correct Answer:- Option-A

Question44:-The solid solution of carbon in gamma iron are called

A:-Pearlite

B:-Austenite

C:-Cementite

D:-Ferrite

Correct Answer:- Option-B

Question45:-Composite materials are classified according to

A:-Size and shape of reinforcement

B:-Type of matrix used

C:-Both

D:-None of these

Correct Answer:- Option-C

Question46:-When sand is in its natural moist state it is known as

A:-Green sand



B:-Dry sand

C:-Facing sand

D:-Black sand

Correct Answer:- Option-A

Question47:-The heat treatment process which is used to increase the toughness and to reduce brittleness is

A:-Annealing

B:-Tempering

C:-Normalizing

D:-None of these

Correct Answer:- Option-B

Question48:-Which of the following cast iron cannot be machined ?

A:-Grey cast iron

B:-Malleable cast iron

C:-White cast iron

D:-Spheroidal graphite cast iron

Correct Answer:- Option-C

Question49:-The purpose of adding wood flour to moulding sand is to improve

A:-Malleability

B:-Permeability

C:-Collapsibility

D:-Hot strength

Correct Answer:- Option-C

Question50:-Which of the following is not a defect if permeability is not enough ?

A:-Gas holes

B:-Slag inclusion

C:-Surface blow

D:-Brittleness

Correct Answer:- Option-D

Question51:-The bottom of cupola is made up of which material ?

A:-Cast iron

B:-Whit iron

C:-Pig iron

D:-Mild iron

Correct Answer:- Option-A

Question52:-Which is used for general purpose grinding of tough materials ?

A:-Flux coating

B:-Silicate

C:-Zinc chloride

D:-Brown aluminium oxide

Correct Answer:- Option-D

Question53:-The manufacture has marking on a grinding wheel as 'A36L5V'. The code 'V' represents the

A:-Grade

B:-Bond

C:-Structure

D:-Loading

Correct Answer:- Option-B

Question54:-Which is the fuel of cupola furnace ?

A:-Kerosine

B:-Electricity

C:-Coke

D:-Coal

Correct Answer:- Option-C

Question55:-Which metal is used for making metal pattern ?

A:-Aluminium

B:-Highspeed steel

C:-Tin

D:-Lead

Correct Answer:- Option-A

Question56:-Which of the following is the most pattern materials are corrosion prone ?

A:-Steel

B:-Lead

C:-Brass

D:-Grey cast iron

Correct Answer:- Option-D

Question57:-A pattern carries which allowance for internal and external surfaces ?

A:-Shrinkage allowance

B:-Distortion allowance

C:-Draft allowance

D:-Machining allowance

Correct Answer:- Option-C

Question58:-What is the use of core ?

- A:-Strength give to mould
- B:-Increase hardness to casting
- C:-Produce hollow casting
- D:-Helps to easily remove pattern

Correct Answer:- Option-C

Question59:-What is the colour code of bins for waste paper segregation ?

- A:-Green
- B:-Red
- C:-Yellow
- D:-Blue

Correct Answer:- Option-D

Question60:-Which pattern allowance used for finishing the casting ?

- A:-Tapper allowance
- B:-Machining allowance
- C:-Shrinkage allowance
- D:-Distortion allowance

Correct Answer:- Option-B

Question61:-Which material is used for making pattern for mass production ?

- A:-Wood
- B:-Metal
- C:-Rubber
- D:-Wax

Correct Answer:- Option-B

Question62:-Which is made out of the same pouring metal ?

- A:-Internal chills
- B:-External chills
- C:-Chaplets
- D:-Gaggers

Correct Answer:- Option-A

Question63:-Which is used for uniform rate of cooling of a casting ?

- A:-Graphite
- B:-Gaggers
- C:-Calcium carbide
- D:-Chills

Correct Answer:- Option-D

Question64:-What is the advantage of open sand mould ?

- A:-Machining is difficult
- B:-No need box
- C:-Make intricate casting
- D:-Sand inclusion

Correct Answer:- Option-B

Question65:-Which is used for assemble the split core box ?

- A:-Clamp
- B:-Guide pins
- C:-Nails
- D:-Dowel pins and holes

Correct Answer:- Option-D

Question66:-Which metal is used for making permanent mould ?

- A:-Alloy cast iron
- B:-Lead
- C:-Aluminium
- D:-Tin

Correct Answer:- Option-A

Question67:-Which property of moulding sand is used for make the mould number of times ?

- A:-Green strength
- B:-Plasticity
- C:-Durability
- D:-Flow ability

Correct Answer:- Option-C

Question68:-What is the advantage of machine moulding ?

- A:-More time
- B:-High production rate
- C:-High cost of product
- D:-Make intricate casting

Correct Answer:- Option-B

Question69:-Which gate is called parting line gate ?

- A:-Step gate
- B:-Pencil gate
- C:-Horse shoe gate

D:-Horn gate

Correct Answer:- Option-C

Question70:-Which tool is make the pierced venting in core ?

A:-Sharp wire

B:-Sharp knife

C:-Draw spike

D:-Draw screw

Correct Answer:- Option-A

Question71:-What is the advantage of stack mould ?

A:-More time

B:-More sand

C:-Less production

D:-Less boxes

Correct Answer:- Option-D

Question72:-Which gating system is used for thin section castings ?

A:-Skim bob gate

B:-Bench gate

C:-Shrink gate

D:-Horn gate

Correct Answer:- Option-B

Question73:-What is known as middle box of three box mould ?

A:-Cope

B:-Snap

C:-Drag

D:-Cheek

Correct Answer:- Option-D

Question74:-Which is used for withdraw the huge patterns from mould ?

A:-Dowel pins

B:-Fillet

C:-Lifting plate

D:-Stop off piece

Correct Answer:- Option-C

Question75:-What is the purpose of true centrifugal casting ?

A:-Make hole in casting without core

B:-More accuracy

C:-More productivity

D:-More surface finishing

Correct Answer:- Option-A

Question76:-Which material is used for make the mould in continuous casting process ?

A:-Steel

B:-High speed steel

C:-Graphite

D:-Aluminium

Correct Answer:- Option-C

Question77:-Which property of moulding sand that particles of same attracting each other ?

A:-Green strength

B:-Adhesiveness

C:-Cohesiveness

D:-Durability

Correct Answer:- Option-B

Question78:-Which material is makes for chill ?

A:-Metal

B:-Wax

C:-Wood

D:-Plaster

Correct Answer:- Option-A

Question79:-Which mould process the entire mould is prepared with the help of manpower ?

A:-Machine mould process

B:-Continuous casting

C:-Hot chamber die casting

D:-Bench mould process

Correct Answer:- Option-D

Question80:-What is the reason for using the fine sand to make the mould ?

A:-For hard surface

B:-For rough surface

C:-For fine surface

D:-For medium surface

Correct Answer:- Option-C

Question81:-Match List I with List II and select the correct answer from the codes given below.

List I

- (a) India's fastest flowing river
- (b) The red river in India
- (c) The site of harappa is located on the banks of river
- (d) The Ganges river originates

List II

- (i) Brahmaputra
- (ii) Gaumukh
- (iii) Teesta
- (iv) Ravi

A:-a - i, b - iv, c - ii, d - iii

B:-a - ii, b - iii, c - iv, d - i

C:-a - iii, b - i, c - iv, d - ii

D:-a - iv, b - ii, c - i, d - iii

Correct Answer:- Option-C

Question82:-The idea of 'trusteeship' is associated with

A:-The economic idea of Karl Marx

B:-The economic idea of Adam Smith

C:-The economic idea of Mahatma Gandhi

D:-The economic idea of Dadabhai Naoroji

Correct Answer:- Option-C

Question83:-The first district in India without any poor residents as per the latest Multidimensional Poverty Index (MPI) released by the NITI Aayog (2021)

A:-Thiruvananthapuram

B:-Ernakulam

C:-Kozhicode

D:-Kottayam

Correct Answer:- Option-D

Question84:-Which pairs are incorrect ?

- a. Atmanuthapam - Kuriakose Elias Chavara
- b. Nijananda Vilasam - Kumaranasan
- c. Gajendramoksham Vanchippattu - Sree Narayana Guru
- d. Lankamardanam - Nitya Chaithanyayathi

A:-a and b

B:-b and d

C:-a and c

D:-c and d

Correct Answer:- Option-B

Question85:-There are four main kinds of soil that can be found in Kerala, which among is most fertile ?

A:-Laterite soil

B:-Alluvial soil

C:-Forest soil

D:-Red soil

Correct Answer:- Option-B

Question86:-The primary objective of the SGRY Scheme is

- A) To provide additional and supplementary wage employment and thereby provide food security and improve nutritional levels in all rural areas.
- B) To provide rural people with the right to document their residential properties so that they can use their property for economic purpose.
- C) To provide pucca house to all who are houseless and living in dilapidated houses in rural areas.

A:-A only

B:-B only

C:-A and B

D:-C only

Correct Answer:- Option-A

Question87:-Which of the books is not correctly matched with the Author ?

- | Author              | Book                                  |
|---------------------|---------------------------------------|
| A. Mahatma Gandhi   | - Hind Swaraj                         |
| B. Dadabhai Naoroji | - Poverty and Unbritish Rule in India |
| C. Adam Smith       | - Principles of Economics             |
| D. Karl Marx        | - Das Capital                         |

A:-Mahatma Gandhi - Hind Swaraj

B:-Dadabhai Naoroji - Poverty and Unbritish Rule in India

C:-Adam Smith - Principles of Economics

D:-Karl Marx - Das Capital

Correct Answer:- Option-C

Question88:-Consider the following statements related to Western Ghats and select the incorrect statement.

- A. The mountain ranges run parallel to the Bay of Bengal.
- B. The Anamudi peak is the highest peak in the Western Ghats.
- C. The Western Ghats also known as the Sahyadri mountain ranges.

A:-Only A is incorrect

B:-Only B is incorrect

C:-A and B are incorrect

D:-Only C is incorrect

Correct Answer:- Option-A

Question89:-Which of the following country has hosted the Commonwealth games maximum number of times ?

A:-Malaysia

B:-England



C:-India

D:-Australia

Correct Answer:- Option-D

Question90:-Match List I with List II and select the correct answer from the codes given below.

List I

List II

- |                          |                               |
|--------------------------|-------------------------------|
| (a) Vaikunta Swamikal    | (1) Atmavidya Sangham         |
| (b) Brahmananda Sivayogi | (2) Araya Samudaya Sanghatana |
| (c) Pandit K.P. Karuppan | (3) Samatva Samajam           |
| (d) Vagbhatanandan       | (4) Anandamahasabha           |

A:-a - 4, b - 1, c - 2, d - 3

B:-a - 1, b - 4, c - 2, d - 3

C:-a - 2, b - 3, c - 4, d - 1

D:-a - 3, b - 4, c - 2, d - 1

Correct Answer:- Option-D

Question91:-Arrange the following in chronological sequence and select the correct answer from the codes given below.

1. The Khilafat Movement
2. The Quit India Movement
3. Swadeshi Movement
4. The Civil Disobedience Movement

A:-1, 4, 2, 3

B:-2, 3, 4, 1

C:-3, 1, 4, 2

D:-4, 2, 1, 3

Correct Answer:- Option-C

Question92:-The highest literary honour is given by the Kerala Sahitya Akademi, Government of Kerala

A:-Odakkuzhal Award

B:-The Ezhuthachan Puraskaram

C:-Mundasseri Award

D:-Vayalar Award

Correct Answer:- Option-B

Question93:-Identify the Jet stream which is responsible for bringing western disturbances from the Mediterranean region into the Indian subcontinent.

A:-Easterly Jet stream

B:-El-Nino Effect

C:-Westerly Jet stream

D:-Northern Jet stream

Correct Answer:- Option-C

Question94:-Which of the Movement is correctly matched with the Reformers ?

Movements	Reformers
A. Prardhana Samaj	- Atmaram Pandurang
B. Satyashodak Samaj	- E.V. Ramaswami Naicker
C. Self Respect Movement	- Jyotiba Phule
D. Hitakarini Samaj	- Viresalingam

A:-A and D

B:-B and C

C:-B only

D:-D only

Correct Answer:- Option-A

Question95:-Which among the following statement is associated with KIIFB ?

- A. A government owned financial institution to mobilize fund for infrastructural development.
- B. A government agency for empowering industrial growth across Kerala.
- C. To provide investment for projects in the state of Kerala in the sectors of irrigation, road, power, water supply, ports etc.
- D. If provides support to businesses, export-import facilities etc.

A:-B and C

B:-A and C

C:-B and D

D:-A and D

Correct Answer:- Option-B

Question96:-Match Column A with Column B.

Column A	Column B
a. Santhal Rebellion	(i) Malabar
b. Bhil Uprisings	(ii) Ranchi
c. Munda Uprisings	(iii) Rajmahal hills
d. Kurichya Rebellion	(iv) Mangad hills

A:-a - i, b - iii, c - iv, d - ii

B:-a - ii, b - iii, c - i, d - iv

C:-a - iv, b - i, c - iii, d - ii

D:-a - iii, b - iv, c - ii, d - i

Correct Answer:- Option-D

Question97:-With respect to "Nai Talim" consider the following statements.

- A. Mahatma Gandhi's perspective of education is known as Nai Talim.
- B. This system of education recommended free and compulsory education in mother tongue.
- C. Implemented three language formula.
- D. Education should be related to some productive occupations.

Which of the above are correct ?

A:-A, B and D

B:-B, C and D

C:-A, C and D

D:-A, B and C

Correct Answer:- Option-A

Question98:-With reference to the project 'Veda' consider the following statements.

A. The Veda SLV is a three stage, solid-propellant rocket.

B. 'Veda' means vehicle for Defence Application.

C. The Veda vehicle is intended for launching defence satellites into a lower orbit.

Choose the correct answer from the codes given.

A:-A and B only

B:-B and C only

C:-C only

D:-A, B and C

Correct Answer:- Option-D

Question99:-India's first Science city

A:-Gujarat

B:-Mumbai

C:-Kolkata

D:-Delhi

Correct Answer:- Option-C

Question100:-Which sports event is known as the "BWF Super Series" ?

A:-Baseball

B:-Badminton

C:-Basketball

D:-Boxing

Correct Answer:- Option-B