

Paper Code: M-EPA-ST3001

Level 3

Spectacle Technician EPA Mock Multiple-choice Test

Information for registered centres

The seal on this examination paper must only be broken by the candidate at the time of the examination. Under no circumstances should a candidate use an unsealed examination paper.

Information for candidates

Under no circumstances should you, the candidate, use an unsealed examination paper.

This examination consists of **45 multiple-choice** questions.

The exam is worth **45 marks**, with a Pass being **26 marks**, and Distinction **36 marks**.

The duration of this examination is **75 minutes**.

You are **NOT** allowed any assistance to complete the answers.

You must use a pencil to complete the answer sheet - pens must **NOT** be used.

When completed, please leave the **examination answer sheet (EAS)** on the desk.

EXAMINATION ANSWER SHEET (EAS) INSTRUCTIONS:

For each question, fill in **ONE** answer **ONLY**.

If you make a mistake, ensure you erase it thoroughly.

You must mark your choice of answer by shading in **ONE** answer circle only.

Please mark each choice like this:

01 A B C D **ANSWER COMPLETED CORRECTLY**

Examples of how NOT to mark your examination answer sheet (EAS). These will not be recorded.

01 A B C D **DO NOT** partially shade the answer circle
ANSWER COMPLETED INCORRECTLY

01 A B C D **DO NOT** use ticks or crosses
ANSWER COMPLETED INCORRECTLY

01 A B C D **DO NOT** use circles
ANSWER COMPLETED INCORRECTLY

01 A B C D **DO NOT** shade over more than one answer circle
ANSWER COMPLETED INCORRECTLY

All candidates **MUST** sign the Examination Answer Sheet (EAS) in the bottom right-hand corner of the page before leaving the examination room.

1

Which of the following is associated with automation and digitalisation in optical manufacturing?

- A. Increased risk of job displacement
- B. Decreased efficiency and productivity
- C. Accelerated maintenance costs
- D. Higher rates of defective products

2

What is the purpose of varifocal engraving on lenses?

- A. To improve lens durability
- B. To facilitate lens re-marking
- C. To identify the lens manufacturer
- D. To enhance visual aesthetics

3

Which anatomical structure sends visual information to the brain?

- A. Optic nerve
- B. Lens
- C. Vitreous humour
- D. Sclera

4

Hazards in the workplace **must** be reported to the:

- A. human resources department
- B. nearest hospital
- C. local authority
- D. health and safety officer

5

What is the **main** purpose of safety eyewear?

- A. Correcting refractive errors
- B. Reducing eye strain and fatigue
- C. Protecting against hazardous materials
- D. Enhancing vision clarity

6

Which step of the 5 S methodology focuses on arranging the lab for optimal efficiency?

- A. Sort
- B. Set
- C. Standardise
- D. Sustain

7

How many points are typically checked during the quality process to ensure spectacles meet British Standard tolerances?

- A. 3
- B. 6
- C. 9
- D. 12

8

What information would be marked on a varifocal lens?

- A. Grade of tint
- B. Cylindrical power
- C. Reading addition
- D. Sphere power

9

What is the medical term for short-sightedness?

- A. Myopia
- B. Hypermetropia
- C. Astigmatism
- D. Presbyopia

10

A technician notices that the tint bath is causing the lenses to become yellow in colour after applying the UV coating. To rectify the issue they need to:

- A. decrease the exposure time of the lenses to the UV coating to reduce the yellowing effect
- B. empty the contents of the tint jar into the sink and replace it with a new UV pouch and water
- C. increase the duration of UV coating application to counteract the yellowing effect
- D. check the temperature inside the tint jar and add more tint solution to intensify the colour

11

In the event of a fire alarm, technicians **must**:

- A. gather their equipment before evacuating
- B. wait for the fire warden before leaving
- C. get confirmation that there is a fire before evacuating
- D. leave the lab and head to the meeting point

12

Fresnel prisms are used to:

- A. correct double vision
- B. improve contrast sensitivity
- C. protect the eyes from debris
- D. block harmful blue light

13

Which of the following describes the cause of presbyopia?

- A. Consuming too much sugar leading to retinal damage
- B. Excessive exposure to blue light from electronic devices
- C. Genetic mutations affecting the shape of the cornea
- D. The loss of flexibility in the lens of the eye due to aging

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What is the **main** role of an automated focimeter in the ordering process?

- A. Updating stock levels
- B. Checking prescriptions
- C. Finalising orders
- D. Remaking spectacles

15

An order is **first** checked for errors when:

- A. it is placed
- B. it is completed
- C. the lenses are blocked
- D. the lenses are glazed

16

It is midway through the day and a technician realises that they forgot to calibrate the blocker when setting up. What would a consequence of this be?

- A. The edger will begin to malfunction
- B. The equipment will need to be repaired
- C. The glazing time will be decreased
- D. The lenses will have been cut to the wrong shape

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To follow legal requirements technicians **must not**:

- A. tint lenses darker than 82% absorption
- B. repair a broken pair of safety spectacles
- C. repair a broken pair of rimless spectacles
- D. apply UV protection to a tinted lens

18

According to the Medical Device Directive (MDD), frames are identified using the:

- A. manufacturer logo and branding
- B. material composition and markings
- C. SKU number and CE marks
- D. serial number and batch code

19

Which method would be **most** effective for continuously improving a technician's skills and knowledge within the lab?

- A. Structured training programmes with regular workshops
- B. Independently researching new techniques and skills
- C. Relying solely on on-the-job experience
- D. Occasional, one-time training sessions

20

Which refractive error is corrected by the cylinder?

- A. Myopia
- B. Hypermetropia
- C. Astigmatism
- D. Presbyopia

21

If lens engravings are too prominent, the technician will need to:

- A. continue with the order and hope the engravings cut out
- B. return the lenses to the supplier or manufacturer for credit
- C. refer the lenses to a supervisor for further assessment
- D. apply a thicker anti-reflective coating to mask the engravings

22

It has been a record week of orders and the glazers need to be maintained. How can a technician ensure that they are ready for use in the following week?

- A. Turn them off and on again to reset them
- B. Book a technician callout
- C. Change the filtration sock
- D. Check for lens residue and remove if found

23

What is a **key** feature of digitalisation in the lens ordering process?

- A. Automatic determination of the optimal lens size
- B. Elimination of personalised lens recommendations
- C. Decreased product availability
- D. Enhanced customer interaction

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As part of a technician's set-up for the day they need to calibrate the blocker. They can do this by:

- A. cleaning the machine's surfaces
- B. restarting the blocker so it is reset
- C. checking the area for dust
- D. using the frame tracing block

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Which of the following refractive errors would be corrected by a plus powered lens?

- A. Myopia
- B. Hypermetropia
- C. Astigmatism
- D. Presbyopia

26

Which of the following is an example of a near miss in an optical lab?

- A. A technician slipping on a wet surface near the tinting station
- B. A technician handling a lens incorrectly and cutting their hand
- C. A technician knocking over a stack of lenses and catching them
- D. A technician getting a chemical splashed in their eye when cleaning

27

Spectacle errors and omissions are recorded on the production report to:

- A. create accountability for technicians
- B. track quality control issues and trends
- C. analyse the use of materials and stock
- D. justify delays in repairs and remakes

28

What is the recommended procedure if a technician were to sustain a minor cut while working in the lab?

- A. Leave the cut exposed to air and wash it occasionally
- B. Cover the cut with a tissue to prevent it affecting their work
- C. Wait until the end of the day to address the cut
- D. Wash the cut and apply a sterile bandage

29

What is the **main** goal of Lean methodology?

- A. Implementing more complex procedures
- B. Prioritising speed over quality
- C. Reducing unnecessary processes
- D. Enforcing strict cost-cutting measures

30

A technician has noticed inconsistent tinting results from the tint bath. After an inspection they realise this is because the heating element is malfunctioning. What is the appropriate action to take?

- A. Send the tint bath to the supplier for maintenance
- B. Increase the tint bath temperature to counteract the issue
- C. Ask the lab manager to replace the heating element
- D. Adjust the tinting solution concentration

31

Which engraving is found on safety eyewear to guarantee its validity?

- A. BS EN ISO 4007
- B. BS EN ISO 12870
- C. BS EN 13666
- D. BS EN 166

32

What differentiates rimless mounts from traditional frames?

- A. They are larger in size
- B. They have no nose pads
- C. They do not have a frame
- D. They have a thicker frame

33

What is the **key** reason for completing the quality control process?

- A. To increase production efficiency by reducing waste and future reproduction
- B. To ensure customers receive high quality products that meet industry standards
- C. To decrease costs for the lab and maximise profit margins by reducing remakes
- D. To show senior members of staff that technicians are working to required levels

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Which of the following products would a technician recommend for someone that has a muscle imbalance within their eyes?

- A. Sports goggles
- B. Single-vision lenses
- C. Rimless mounts
- D. Prism glasses

35

Robotic technology contributes to the glazing process by:

- A. enhancing workplace safety
- B. completing quality checks
- C. increasing production efficiency
- D. assisting with administrative tasks

36

Mirrored tints in spectacles are designed to:

- A. reduce glare from sunlight
- B. enhance colour perception
- C. reduce scratches on the lenses
- D. make objects appear larger

37

A technician notices that a focimeter is consistently producing inaccurate readings and they think it needs to be calibrated. The technician would do this by:

- A. restarting the machine and setting it back to factory settings
- B. replacing the lens holder and adjusting the display settings
- C. booking an external technician that can calibrate equipment
- D. following the manufacturer's instructions and using the calibration standards

38

What information would be marked on an optical frame?

- A. Pupil distance
- B. Bridge size
- C. Heights
- D. Reading addition

39

Which of the following is an outcome associated with implementing continuous improvement techniques?

- A. An increase in production costs as processes become more streamlined
- B. The immediate elimination of all operational inefficiencies
- C. A decreased focus on quality control and customer satisfaction
- D. An enhancement in productivity and efficiency in workflow processes

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Which action **must** be taken following a near miss incident in the lab?

- A. Report the incident to the appropriate authority
- B. Report the incident informally when there is time
- C. Disregard the incident unless it was witnessed by others
- D. Disregard the incident as it did not result in an injury

41

British Standard tolerances are used to:

- A. standardise manufacturing processes
- B. determine warranty coverage
- C. verify finished spectacles
- D. dictate pricing strategies

42

Which of the following is **not** an example of a digital piece of equipment?

- A. Pupillometer
- B. Tint bath
- C. Blocker
- D. Edger

43

Which of the following **must** be readily available at all times in the lab?

- A. Office materials
- B. A fire warden
- C. Cleaning supplies
- D. An eye bath

44

During quality control a focimeter can be used to:

- A. measure the optical power
- B. assess the comfort level
- C. check the lenses are clean
- D. adjust the frame size and fit

45

What does the 'shine' step in the 5 S methodology involve?

- A. Sorting items in the lab
- B. Ensuring all items are in suitable places
- C. Cleaning the workplace and equipment
- D. Installing new machinery



**Level
3**

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