

# **BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT**

## **Diesel Engine Mechanic**

(under Baba Farid University of Health Sciences, Faridkot)

QUESTION BOOKLET NO

IMPRESSION OF THE CANDIDATE

OMR ANSWER SHEET NO

ROLL NO:

FULL SIGNATURE OF THE CANDIDATE

FULL SIGNATURE OF INVIGILATOR

Time Allowed: 1:00 Hour (12:00 Noon to 01:00 PM)

Maximum Marks: 50

1. Use BLACK FINE TIP BALL PEN only. Use of pencil is not allowed.
2. Write your Roll number on the OMR answer-sheet and also on the question-booklet only in the space provided for the purpose and at no other place in the question booklets and Answer-sheet
3. Enter the Question Booklet Set and Number on the OMR Answer-sheet and also darken the corresponding bubbles with BLACK FINE TIP BALL PEN.
4. Do not put any marks anywhere in the Question booklet /on the OMR Answer-sheet.
5. **There are 50 objective type questions in all of 1 Mark each.** Before attempting the questions, check that the Question-booklet is complete. In case any question/part of question or page is missing, inform the Centre Superintendent within 5 minutes of the start of the examination. After that no claim will be entertained.
6. **Each question is followed by four alternative responses listed as A), B), C) and D) out of which only one is correct / most correct. In case, all the ovals are left blank, there will be deduction of marks @ 0.25 mark for each such unattempted question. Fifth oval 'E' (introduced for security purpose) is to be darkened in case you do not want to attempt the question to avoid negative marking.**
7. To open the question booklet, remove the seal gently when asked to do so. Handover the OMR Answer-sheet to the officer on duty on the completion of the time before you leave the examination hall.
8. **The candidates are permitted to carry his/her question booklet after completion of the examination but OMR Sheets are compulsory required to be deposited with the invigilator.**
9. A candidate who create disturbance of any kind or changes his/her seat or is found in possession of any paper possibility of any assistance to him/her or unfair means will be expelled from the examination by the Centre superintendent/Observer, whose decision shall be final. ("Expulsion" for this purpose would mean cancellation of the entire examination of the candidate).
10. THE CANDIDATES ARE NOT PERMITTED TO CARRY ANY TELECOMMUNICATION EQUIPMENT SUCH AS WATCH, CELLULAR PHONE, WIRELESS SET, SCANNER ETC. INSIDE THE EXAMINATION HALL.
11. For rough work, use only the blank space of the Question booklet.
12. The candidates will not be allowed to leave the examination hall during the examination.
13. Borrowing any material is not allowed.
14. The answer-sheet is designed for Computer evaluation. If the instructions are not followed properly, the candidate alone shall be responsible for the resultant loss.
15. Smoking/Refreshment shall not be allowed in the Entrance Test Centre/Hall.
16. Male candidates shall affix their Left Thumb Impression (LTI) while Female candidates shall affix Right Thumb Impression (RTI) at the prescribed place on the OMR answer sheet, Question Booklet and attendance sheet. The Centre superintendent shall also obtain and retain it for record.
17. The candidate must fill both the question booklet number and OMR answer sheet number on the attendance sheet.
18. No candidate shall be allowed to leave the centre before **01:00 PM**.

-----

1. What is the primary function of a diesel engine's injector?
  - a) To filter the fuel and measure the correct quantity of fuel to be injected
  - b) To control the rate and time of fuel injection perfectly.
  - c) To atomize the fuel into fine particles for complete combustion and properly distribute the fuel in the combustion chamber.
  - d) All of these
  
2. Which component is responsible for converting the linear motion of the pistons into rotational motion?
  - a) Camshaft      b) Crankshaft
  - c) Flywheel      d) Timing belt
  
3. What is the purpose of the glow plug in a diesel engine?
  - a) To ignite the fuel-air mixture
  - b) To reduce engine noise
  - c) To monitor engine temperature
  - d) To filter exhaust gases
  
4. Which of the following is a common cause of diesel engine knocking?
  - a) Faulty spark plug
  - b) Incorrect timing
  - c) Dirty air filter
  - d) None of these
  
5. What is the primary function of the turbocharger in a diesel engine?
  - a) To reduce exhaust emissions
  - b) To cool the engine
  - c) To increase engine power and efficiency
  - d) To lubricate engine parts
  
6. Which component helps in reducing the noise and vibration of a diesel engine?
  - a) Alternator      b) Radiator
  - c) Muffler      d) Fuel pump
  
7. What is the primary role of the EGR (Exhaust Gas Recirculation) valve in a diesel engine?
  - a) To recirculate exhaust gases back into the combustion chamber
  - b) To filter exhaust gases
  - c) To cool the engine
  - d) To monitor engine performance
  - e)
  
8. Which type of oil is typically used in diesel engines?
  - a) Animal oil      b) Mineral oil
  - c) Vegetable oil      d) None of these
  
9. What is the purpose of the fuel filter in a diesel engine?
  - a) To cool the fuel
  - b) To lubricate the engine
  - c) To increase fuel pressure
  - d) To remove impurities from the fuel
  
10. Which component is used to measure the engine's oil pressure?
  - a) Oil pump
  - b) Oil filter
  - c) Oil pressure gauge
  - d) Oil cooler
  
11. What is the purpose of the diesel particulate filter (DPF)?
  - a) To cool the engine
  - b) To increase engine power
  - c) To remove soot and particulate matter from exhaust gases
  - d) To filter the fuel

12. What is the function of the intercooler in a turbocharged diesel engine?
- To monitor engine performance
  - To reduce the temperature of compressed air
  - To lubricate engine parts
  - None of these
13. The word closest in meaning to the word 'admit'
- dissent
  - attend
  - confesses
  - except
14. Choose the correct determiner for "once upon time there were \_\_\_\_\_ dinosaurs".
- much
  - most
  - money
  - many
15. Two dollars \_\_\_\_\_ a small amount.
- has
  - have
  - are
  - is

**Direction (Ques 16 – 21):** Read the passage given below carefully and answer the following questions:

**The Importance of Reading Books**

Reading books is one of the most valuable habits a person can develop. Not only does it provide knowledge and information, but it also helps improve mental abilities like concentration, memory, and critical thinking. Books allow us to explore new worlds, understand different cultures, and enhance our imagination. In addition to these benefits, reading can also improve our vocabulary and writing skills. People who read regularly are often better communicators and more successful in their professional lives. Moreover,

books offer a way to escape from the stress of everyday life, providing a relaxing and enjoyable experience.

Whether it's fiction or non-fiction, every book has something valuable to offer. Reading helps build empathy by letting readers live through the experiences of different characters. It is a great way to relax while still learning something new. For these reasons, it is crucial for students, especially, to make reading a regular habit.

16. What is one of the main benefits of reading books?
- It reduces stress.
  - It improves physical strength.
  - It helps improve one's sense of humor.
  - It helps people become taller.
17. According to the passage, how does reading affect your mental abilities?
- It decreases concentration.
  - It improves memory and concentration.
  - It makes people forget things.
  - It limits imagination.
18. How can reading books improve communication skills?
- By providing vocabulary and writing skills.
  - By encouraging silence.
  - By reducing social interactions.
  - By limiting speech.

19. What does reading offer apart from learning?

- a) Physical exercise.
- b) Stress relief and relaxation.
- c) Social media connections.
- d) A way to argue with others.

20. What is one way books help people understand others?

- a) By teaching them to be rude.
- b) By letting readers live through the experiences of different characters.
- c) By limiting their imagination.
- d) By focusing on facts and statistics.

21. Which is the synonym of 'renown'?

- a) Blame
- b) Lame
- c) Shame
- d) Fame

22. I \_\_\_\_\_ my lunch at noon.

- a) Eaten
- b) Eats
- c) Eating
- d) Ate

23. He \_\_\_\_\_ a new bicycle for his birthday.

- a) Got
- b) Get
- c) Gotten
- d) Getting

24. My brother has \_\_\_\_\_ the entire cake.

- a) Eat
- b) Ate
- c) Eaten
- d) Eating

25. Which of the following sentences uses a comparative adjective correctly?

- a) This book is more interesting than that one.
- b) This book is interesting than that one.
- c) This book is most interesting than that one.
- d) None of these

26. Look at this series: 2, 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$ , ... What number should come next?

- a)  $\frac{1}{3}$
- b)  $\frac{1}{8}$
- c)  $\frac{2}{8}$
- d)  $\frac{1}{16}$

27. Which word does NOT belong with the others?

- a) Parsley
- b) Basil
- c) Dill
- d) Mayonnaise

28. Odometer is to mileage as compass is to

- a) Speed
- b) Hiking
- c) Needle
- d) Direction

29. Arrange the words given below in a meaningful sequence.

- 1. Family
- 2. Community
- 3. Member
- 4. Country

- a) 3, 1, 2, 4
- b) 4, 1, 2, 3
- c) 3, 1, 4, 2
- d) 2, 1, 4, 3

30. Choose the alternative which is closely resembles the mirror image of the given combination.

ANS43Q12

- (1) AN2PEOT S      (2) S TQEP2NA  
 (3) 2NAEPOTS T      (4) T SQPEAN2

- a) 1                      b) 2  
 c) 3                      d) 4

31. Pointing to a man, a woman said, "He is the only son of my mother's brother." How is the man related to the woman?

- a) Uncle                      b) Nephew  
 c) Cousin                      d) Brother

32. Which of the following words will come first in dictionary?

- a) Zeal                      b) Zenith  
 c) Zebra                      d) Zero

33. If  $7 + 3 = 410$ ,  $9 + 2 = 711$ , then  $8 + 6 = ?$

- a) 412                      b) 214  
 c) 486                      d) 142

34. A is the father of B, but B is not the son of A. How is B related to A?

- a)                      Daughter b) Cousin  
 c) Mother                      d) Aunt

35. If "RAIN" is coded as "QZHM," how is "SNOW" coded?

- a) RNMV                      b) VNMR  
 c) RMNV                      d) VMNR

36. Find the next term in the series: 3, 6, 18, 72, ?

- a) 410                      b) 288  
 c) 360                      d) 390

37. Which is the capital of Turkey?

- a) Beirut                      b) Praia  
 c) Ankara                      d) Tunis

38. What is the national animal of Australia?

- a) Koala                      b) Kangaroo  
 c) Wombat                      d) Emu

39. Who was the first American president to be honored on Indian stamps?

- a) John F. Kennedy  
 b) Franklin D. Roosevelt  
 c) George Washington  
 d) Abraham Lincoln

40. Which one of the below is not a quadrilateral?

- a) Trapezium                      b) Parallelogram  
 c) Rhombus                      d) Circle

41. Which ocean lies between Africa and Australia?

- a) Indian Ocean                      b) Pacific Ocean  
 c) Atlantic Ocean                      d) Arctic Ocean

42. Which of the following is NOT a flightless bird?

- a) Kiwi                      b) Penguin  
 c) Rhea                      d) Sarus Crane

43. Who is known as the 'Father of Geometry'?

- a) Euclid                      b) Hipparchus  
 c) Pythagoras                      d) Aristotle

44. Which of the following is a warm blooded animal?

- a) Lizard                      b) Snake  
 c) Fish                      d) Duck

45. Which animal is famous for its ability to change skin color?

- a) Tiger
- b) Chameleon
- c) Shark
- d) Penguin

46. Claustrophobia is the fear of

- a) Water
- b) Heights
- c) Darkness
- d) Closed places

47. Which is a capitalist country?

- a) China
- b) Cuba
- c) United States
- d) North Korea

48. Which is the formula for area of circle?

- a)  $r^2$
- b)  $\pi r^2$
- c)  $2\pi r$
- d)  $\pi d$

49. Which country is known as 'Gift of Nile'?

- a) Egypt
- b) Ethiopia
- c) Sudan
- d) Uganda

50. The latitude lines are also known as?

- a) Meridians
- b) Great Circles
- c) Parallels
- d) Longitudes

\*\*\*\*\*

\*\*\*\*\*

**ANSWER KEY****Recruitment test conducted on 23/01/2025 for post of Diesel Engine  
Mechanic under BFUHS, Faridkot**

1	D		26	B
2	B		27	D
3	A		28	D
4	B		29	A
5	C		30	B
6	C		31	C
7	A		32	A
8	B		33	B
9	D		34	A
10	C		35	C
11	C		36	C
12	B		37	C
13	C		38	B
14	D		39	D
15	D		40	D
16	A		41	A
17	B		42	D
18	A		43	A
19	B		44	D
20	B		45	B
21	D		46	D
22	D		47	C
23	A		48	B
24	C		49	A
25	A		50	C