#### **COCHIN SHIPYARD LIMITED**

(A Govt. of India Enterprise) KOCHI -15

# OBJECTIVE TYPE WRITTEN TEST TO THE POST OF PROJECT ASSISTANT (MECHANICAL)

#### 20 APRIL 2024

**DURATION OF THE TEST: 90 Minutes** 

**MAXIMUM MARKS: 80** 

#### DO NOT OPEN THIS QUESTION PAPER-CUM-ANSWER BOOKLET UNTIL ASKED TO DO SO

#### **GENERAL INSTRUCTIONS**

- 1. **ANSWER ALL QUESTIONS**. There shall be no negative marks.
- 2. Answers are to be marked using ✓ mark against the most appropriate option among the options provided in the Question Booklet using BALL POINT PEN.
- 3. Rough work, if any, is to be done on space provided in the Question Booklet only. No separate sheet will be provided for rough work.
- 4. Calculators, Mobile, Electronic items etc., are not permitted inside the examination hall.
- 5. Candidates seeking, receiving and /or giving assistance during the test will be disqualified.
- 6. The right to exclude any question (s) from final evaluation rests with CSL.
- 7. Do not seek any clarification on any item in the Question Booklet. Use your judgment.

| <b>9</b> | 9. | مريا |
|----------|----|------|
| ж        |    |      |

#### Please fill in the following details using ball point pen.

| Name of Candidate        |  |
|--------------------------|--|
| Registration No.         |  |
| Name of Post             |  |
| Signature of candidate   |  |
| Signature of invigilator |  |

THIS QUESTION PAPER-CUM-ANSWER BOOKLET SHOULD BE HANDED OVER
TO THE INVIGILATOR ON COMPLETION OF THE TEST

# OBJECTIVE TYPE TEST FOR THE POST OF PROJECT ASSISTANT (MECHANICAL) ON CONTRACT BASIS FOR CKSRU

1. What new variant of COVID-19 emerged in late 2021, causing global concern?

a) Alpha variant

c) delta variant

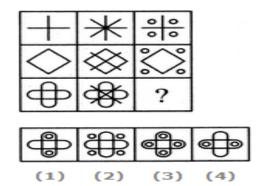
b) Omicron

|    | d) SARS-CoV-2                                 |  |
|----|---|--|
|    |   |  |
| 2. | Which country hosted the 2022 FIFA World Cup? |  |
|    | a) Brazil                                     |  |
|    | b) Russia                                     |  |
|    | c) South Africa                               |  |
|    | d) Qatar                                      |  |
|    |   |  |
| 3. | Who invented electricity                      |  |
|    | a) Albert Einstein                            |  |
|    | b) Marie Curie                                |  |
|    | c) Louis Pasteur                              |  |
|    | d) Benjamin Franklin                          |  |
|    |   |  |
| 4. | The Oscar Award was won 36 times by           |  |
|    | (a) Walt Disney                               |  |
|    | (b) Alfred Hitchcock                          |  |
|    | (c) Charlie Chaplin                           |  |
|    | (d) Akira Kurosawa                            |  |

Page **2** of **21** 

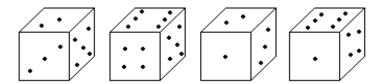
## (Correct Option revised from option c to option a)

| 5. | National Maritime Day of India falls on  |
|----|--|
|    | (a) April 5  |
|    | (b) June 5   |
|    | (c) October 5  |
|    | (d) September 5  |
|    |  |
| 6. | Look at this series: 80, 10, 70, 15, 60, What number should come next?             |
|    | (a) 20   |
|    | (b) 25   |
|    | (c) 30   |
|    | (d) 50   |
|    |  |
| 7. | Odometer is to mileage as compass is to  |
|    | (a) speed  |
|    | (b) hiking   |
|    | (c) needle   |
|    | (d) direction  |
|    |  |
| 8. | Select a suitable figure from the four alternatives that would complete the figure |
|    | matrix.  |
|    |  |
|    |  |
|    |  |



- (a) 1
- (b) 2
- (c) 3
- (d) 4
- 9. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle."

  How is the boy related to the girl?
  - (a) Brother
  - (b) Nephew
  - (c) Uncle
  - (d) Son-in-law
- 10. How many points will be on the face opposite to in face which contains 2 points?



- (a) 1
- (b) 5
- (c) 4
- (d) 6

| 11. Calculate the simple interest on Rs. 8000 for 15 months at 6 paise per rupee per     |
|--|
| month.   |
| (a) Rs. 7200   |
| (b) Rs. 7300   |
| (c) Rs. 7100   |
| (d) Rs. 7000   |
|  |
| 12.A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the     |
| length of the train?   |
| (a) 120 Meters   |
| (b) 150 Meters   |
| (c) 180 Meters   |
| (d) 200 Meters   |
| 13. If 0.75: x:: 5 : 8, then x is equal to   |
| (a) 1.12   |
| (b) 1.20   |
| (c) 1.25   |
| (d) 1.30   |
| 14. Pavan buys a scooter at a cost price Rs.5500 and he sells the scooter for 5800. Then |
| gain Price   |
| (a) Rs.300   |
| (b) Rs.800   |
| (c) Rs.500   |
| (d) Rs.200   |
|  |
| 15.A man's speed with the current is 15 km/hr and the speed of the current is 2.5        |
| km/hr. The man's speed against the current is:   |
| (a) 8.5 km/hr  |
| (b) 9 km/hr  |
| (c) 10 km/hr   |
| (d) 12.5 km/hr   |
| 16. If $x=2+\sqrt{3}$ and $y=2-\sqrt{3}$ , find the value of $x2+y2$                     |
|  |

Page **5** of **21** 

|           | (a) 14   |
|-----------|--|
|           | (b) 17   |
|           | (c) 16   |
|           | (d) 15   |
| 17.A ca   | an do a work in 15 days and B in 20 days, then (A + B)'s 1 day's work?                 |
|           | (a) 7/60 days  |
|           | (b) 7/15 Days  |
|           | (c) 7/30 days  |
|           | (d) 7/25 days  |
| 18.The    | LCM of four numbers 15, 25, 40 and 75 is?  |
|           | (a) 600  |
|           | (b) 500  |
|           | (c) 400  |
|           | (d) 300  |
| 19.If or  | ne-third of one-fourth of a number is 15, then three-tenth of that number is?          |
|           | (a) 35   |
|           | (b) 36   |
|           | (c) 45   |
|           | (d) 54   |
| 20. If ra | atio of the areas of two squares is 1:4, the ratio of their perimeters is              |
|           | (a) 1:2  |
|           | (b) 1:4  |
|           | (c) 1:6  |
|           | (d) 1:8  |
| 21.Rea    | d the sentence to find out whether there is any grammatical error in it. The error     |
| if aı     | ny will be in one part of the sentence. The letter of that part is the answer. If ther |
|           | o error, the answer is 'D'.  |
| 10 11     |  |

| Sixty miles/are/a good distance.   |
|--|
| (a) Sixty miles  |
| (b) are  |
| (c) a good distance.   |
| (d) No error.  |
|  |
| 22. What is the synonym of the word 'Parochial'?   |
| (a) Abstract   |
| (b) Unorthodox   |
| (c) Baffling   |
| (d) Conservative   |
|  |
| 23. The company's profits  |
| (a) have been steadily increasing  |
| (b) have been steadily decreasing  |
| (c) have remained the same for years   |
| (d) have been affected by the pandemic   |
|  |
| 24. The word EXODUS which is the exact OPPOSITE of the given words.                        |
| (a) Influx   |
| (b) Home-coming  |
| (c) Return   |
| (d) Restoration  |
|  |
| 25. You are required to rearrange these parts, which are labelled P, Q, R and S to produce |
| the correct sentence.  |
| (P) with an idea to reach the deprived child<br>Page <b>7</b> of <b>21</b>                 |

| (Q) by the United Nations Organization   |  |  |
|--|--|--|
| (R) the year 1979 has been declared as   |  |  |
| (S) the International Year of the Child  |  |  |
| (a) PQRS   |  |  |
| (b) RSPQ   |  |  |
| (c) PSQR   |  |  |
| (d) PRSQ   |  |  |
|  |  |  |
| 26. Choose the correct meaning of proverb/idiom, if there is no correct meaning given, |  |  |
| option (d) (i.e.) 'None of these' will be the answer.                                  |  |  |
| A man of straw   |  |  |
| (a) A man of no substance  |  |  |
| (b) A very active person   |  |  |
| (c) A worthy fellow  |  |  |
| (d) None of these  |  |  |
|  |  |  |
| 27. The team organised friendly match with Presidents of both countries.               |  |  |
| (a) A, The, The  |  |  |
| (b) A, A, A  |  |  |
| (c) THE, THE, THE  |  |  |
| (d) THE, A, A  |  |  |
|  |  |  |
| 28. We judge ourselves by our thought, others judge us by our actions                  |  |  |
| (a) when   |  |  |
| (b) because  |  |  |
| (c) whereas  |  |  |
| (d) lest Page <b>8</b> of <b>21</b>  |  |  |
| I USC U OI LI  |  |  |

## (Correct Option revised from option a to option c)

| •   | 29. What's the plural of "bush"? |  |  |
|---|----------------------------------|--|--|
| (a) Bush's  |                                  |  |  |
| (b) Bushes  |                                  |  |  |
| (c) Bushies   |                                  |  |  |
| (d) Bushees   |                                  |  |  |
|   |                                  |  |  |
| 30. One who possesses many talents  |                                  |  |  |
| (a) Versatile   |                                  |  |  |
| (b) Nubile  |                                  |  |  |
| (c) Exceptional   |                                  |  |  |
| (d) Gifted  |                                  |  |  |
|   |                                  |  |  |
| 31. Which casting defect occur excess moisture content in moulding sand?  |                                  |  |  |
| 31. Which casting defect occur excess moisture content in moulding sand?  |                                  |  |  |
| 31. Which casting defect occur excess moisture content in moulding sand?  (a) Porosity  |                                  |  |  |
|   |                                  |  |  |
| (a) Porosity  |                                  |  |  |
| (a) Porosity (b) Shrinkage  |                                  |  |  |
| <ul><li>(a) Porosity</li><li>(b) Shrinkage</li><li>(c) Blow holes</li></ul>   |                                  |  |  |
| <ul><li>(a) Porosity</li><li>(b) Shrinkage</li><li>(c) Blow holes</li></ul>   |                                  |  |  |
| <ul><li>(a) Porosity</li><li>(b) Shrinkage</li><li>(c) Blow holes</li><li>(d) Inclusions</li></ul>                                |                                  |  |  |
| (a) Porosity (b) Shrinkage (c) Blow holes (d) Inclusions  32. Forging of a plain carbon steel is carried out.                     |                                  |  |  |
| (a) Porosity (b) Shrinkage (c) Blow holes (d) Inclusions  32. Forging of a plain carbon steel is carried out. (a) 750°C           |                                  |  |  |
| (a) Porosity (b) Shrinkage (c) Blow holes (d) Inclusions  32. Forging of a plain carbon steel is carried out. (a) 750°C (b) 900°C |                                  |  |  |

| (a)               | Impact extrusion   |
|-------------------|--|
| (b)               | Hooker extrusion   |
| (c)               | Hydrostatic extrusion  |
| (d)               | Cold extrusion forging   |
|                   |  |
| 34.The machin     | ing process that will be most appropriate to machine a turbine blade |
| with an aer       | rofoil cross-section in a high-strength material                     |
| (a)               | Chemical machining (CHM)   |
| (b)               | Electric Discharge Machining (EDM)                                   |
| (c)               | Ultrasonic Machining (USM)   |
| (d)               | Electrochemical Machining (ECM)                                      |
|                   |  |
| 35.On drilling    | machine, which process is known as reaming                           |
| (a)               | Enlargement of existing hole   |
| (b)               | Hole made by removal of metal along the hole circumference           |
| (c)               | Smoothly finishing and accurately sizing a drilled hole              |
| (d)               | All of the above   |
|                   |  |
| 36. The following | ng is used in heat treatment process as a quenching medium for       |
| obtaining a       | a higher degree of hardness.   |
| (a)               | Mineral oil  |
| (b)               | Fatty acid   |
| (c)               | Waxes  |
| (d)               | Graphite suspensions   |
| (3)               | 1  |
|                   |  |
|                   |  |

| 37. Which one of the following grinding wheels (with grade, grit and bond) is suitable |   |  |  |
|--|---|--|--|
| for cutter grinding?   |   |  |  |
| (a) K 60   | O vitrified   |  |  |
| (b) K 32   | 20 vitrified  |  |  |
| (c) T 60   | ) resinoid  |  |  |
| (d) T 32   | 20 resinoid   |  |  |
| (Correct Option revised from option a to option b)                                     |   |  |  |
|  |   |  |  |
| 38. In CNC systems n   | nultiple microprocessors and programmable logic controller's work |  |  |
| (a) In paralle   | <mark>l</mark> e  |  |  |
| (b) In series  |   |  |  |
| (c) One after  | the other   |  |  |
| (d) For 80%  | of the total machining time                                       |  |  |
|  |   |  |  |
| 39. For rapid prototyp   | ing 3D CAD model should be converted intofile.                    |  |  |
| (a) SGC  |   |  |  |
| (b) SLA  |   |  |  |
| (c) STL  |   |  |  |
| (d) SLS  |   |  |  |
|  |   |  |  |
| 40. UNIX is written in which language?   |   |  |  |
| (a) C#   |   |  |  |
| (b) C++  |   |  |  |
| (c) C  |   |  |  |
| (d) .NET   |   |  |  |
|  |   |  |  |

41. What are the 5 phases of 5S?

|     | (a)     | Shine, Shut-Up, Sustain, Sort, Standardize                                 |
|-----|---------|--|
|     | (b)     | Sustain, Sort, Standardize, Sushi mi, Shine                                |
|     | (c)     | Standardize, Sort, Sustain, Shine, Set-in-Order                            |
|     | (d)     | Sort, Sustain, Sushi, Shine, Standardize                                   |
|     |         |  |
| 42. | The ele | ctrode is manufactured in two standard lengths namely?                     |
|     | (a)     | 250 mm and 350 mm  |
|     | (b)     | 350 mm and 450 mm  |
|     | (c)     | 400 mm and 500 mm  |
|     | (d)     | 500 mm and 550 mm  |
|     |         |  |
| 43. | Which o | of the following defects occur due to flux employed and electrode coating? |
|     | (a)     | Inclusion of slag  |
|     | (b)     | Inadequate penetration   |
|     | (c)     | Incomplete fusion  |
|     | (d)     | Porosity   |
|     |         |  |
| 44. | Which   | of the following does not relate to spark ignition engine?                 |
|     | (a)     | Spark plug   |
|     | (b)     | Carburettor  |
|     | (c)     | Fuel injector  |
|     | (d)     | Ignition coil  |
|     |         |  |
| 45. | Crank   | web deflection readings will give a positive indication of                 |
|     | (a)     | Worn main bearing journals   |
|     | (b)     | Torsional stress deformation   |
|     | (c)     | Slack thrust bearings Page 12 of 21  |
|     |         |  |

|          | (d)    | Bearing shells shim dimensions   |
|----------|--------|--|
| 46. The  | air s  | tandard efficiency of an I.C. engine depends on                              |
|          | (a)    | Fuel used  |
|          | (b)    | Speed of engine  |
|          | (c)    | Compression ratio  |
|          | (d)    | None of these  |
| 47. The  | worl   | king cycle in case of four stroke engine is completed in following number of |
| rev      | olutio | ons of crankshaft  |
|          | (a)    | 1/2  |
|          | (b)    | 1  |
|          | (c)    | 2  |
|          | (d)    | 4  |
| 48. The  | accu   | amulation of carbon in a cylinder result in increase of                      |
|          | (a)    | clearance volume   |
|          | (b)    | volumetric efficiency  |
|          | (c)    | ignition time  |
|          | (d)    | effective compression ratio  |
|          |        |  |
| 49. In o | case c | of gas turbines, the gaseous fuel consumption guarantees are based on        |
|          | (a)    | high heat value  |
|          | (b)    | low heat value   |
|          | (c)    | net calorific value  |
|          | (d)    | middle heat value  |
|          |        | Daniel 42 of 24  |

| 50. How the condenser capacity is expressed?   |  |  |
|--|--|--|
| (a) kcal/kg  |  |  |
| (b) kcal/hr  |  |  |
| (c) kg/kcal  |  |  |
| (d) kcal/kg  |  |  |
|  |  |  |
| 51. Steel can be hardened quickly by the process of  |  |  |
| (a) Induction hardening  |  |  |
| (b) Nitriding  |  |  |
| (c) Cyaniding  |  |  |
| (d) Carburizing  |  |  |
|  |  |  |
| 52.A cylindrical section having no joint is known as                                       |  |  |
| (a) Jointless section  |  |  |
| (b) Homogeneous section  |  |  |
| (c) Perfect section  |  |  |
| (d) Seamless section   |  |  |
|  |  |  |
| 53. If the radius of wire stretched by a load is doubled, then its Young's modulus will be |  |  |
| (a) Doubled  |  |  |
| (b) Halved   |  |  |
| (c) Remain Unaffected  |  |  |
| (d) Become One-Fourth  |  |  |
|  |  |  |
| 54.In a tensile test, near the elastic limit zone, the                                     |  |  |
| (a) Tensile strain increases more quickly  |  |  |
| (b) Tensile strain decreases more quickly Page <b>14</b> of <b>21</b>                      |  |  |

| (a) R           | Pesilience                                  |
|-----------------|---|
| (b) P           | roof resilience                             |
| (c) M           | Iodulus of resilience                       |
| (d) T           | oughness                                    |
|                 |   |
| 56. Which is k  | nown as corrective Maintenance?             |
| (a) B           | reakdown maintenance                        |
| (b) P           | redictive maintenance                       |
| (c) P           | reventive maintenance                       |
| (d) S           | cheduled maintenance                        |
|                 |   |
| 57. What does   | EPOS stand for?                             |
| (a) E           | Electronic point of sale                    |
| (b) E           | Electronic purchase operating system        |
| (c) E           | stimated product order shipment             |
| (d) E           | exclusive products' organisational standing |
|                 |   |
| 58. Margin of s | safety in breakeven analysis is             |
| (a) Actu        | al sales-Sales at break -even point         |
| (b) Actu        | al sales +Sales at break -even point        |
| (c) Actu        | aal sales ÷ Sales at break -even point      |
| (d) None        | e of the above                              |
|                 | Page <b>15</b> of <b>21</b>                 |
|                 | . a <sub>b</sub> c 13 01 21                 |

(c) Tensile strain increases in proportion to the stress

(d) Tensile strain decreases in proportion to the stress

55. Proof resilience per material is known as

| 59. A positive allowance will always result in a fit. |   |  |
|---|---|--|
| (a)   | Clearance   |  |
| (b)   | Interference  |  |
| (c)   | both 'a' and 'b'  |  |
| (d)   | Any of the above  |  |
|   |   |  |
| 60.A Micror   | metre having a negative of 0.03mm showing a reading of 25.52mm, the correct   |  |
| dimensio  | ons is  |  |
| (a)   | 25.49mm   |  |
| (b)   | 25.55mm   |  |
| (c)   | 25.60mm   |  |
| (d)   | 25.46mm   |  |
|   |   |  |
| 61.The clea   | rance ratio for a single stage compressor lies between                        |  |
| (a)   | 15% and 20%   |  |
| (b)   | 1% and 2%   |  |
| (c)   | 20% and 30%   |  |
| (d)   | 4% and 10%  |  |
|   |   |  |
| 62. Modern  | marine turbochargers use a type of compressor?                                |  |
| (a)   | Radial Flow   |  |
| (b)   | Axial Flow  |  |
| (c)   | Mixed Flow  |  |
| (d)   | Turbulent Flow  |  |
|   |   |  |
| 63.A centrifugal compressor works on the principle of |   |  |
| (a)   | Conversion of pressure energy into kinetic energy Page <b>16</b> of <b>21</b> |  |

|  | Centripetal action   |  |
|--|--|--|
| (d)  | Generating pressure directly                                   |  |
|  |  |  |
| 64. Centrifugal pumps dealing with mud, slurry and sewage have |  |  |
| (a)  | Isolated impeller'   |  |
| (b)  | Open impeller  |  |
| (c)  | Closed impeller  |  |
| (d)  | Semi closed impeller   |  |
|  |  |  |
| 65. Which o  | f the following is positive displacement pump?                 |  |
| (a)  | Reciprocating Pump   |  |
| (b)  | Propeller pump   |  |
| (c)  | Centrifugal pump   |  |
| (d)  | Jet Pump   |  |
|  |  |  |
|  |  |  |
| 66.A boiler  | in India should conform to safety regulations of               |  |
| 66.A boiler<br>(a)   | in India should conform to safety regulations of DIN           |  |
|  |  |  |
| (a)  | DIN  |  |
| (a)<br>(b)   | DIN<br>BS  |  |
| (a)<br>(b)<br>(c)  | DIN BS ASTM  |  |
| (a)<br>(b)<br>(c)  | DIN BS ASTM IBR  |  |
| (a)<br>(b)<br>(c)<br>(d)                                       | DIN BS ASTM IBR  |  |
| (a)<br>(b)<br>(c)<br>(d)<br>67. Adiabati                       | DIN BS ASTM IBR c process is                                   |  |
| (a) (b) (c) (d) 67. Adiabati (a)                               | DIN BS ASTM IBR c process is essentially an isentropic process |  |

(b) Conversion of kinetic energy into pressure energy

| 68.A type of crane that is built upon a bridge like overhead structure is                        |   |  |  |
|--|---|--|--|
| (a)  | Jib Crane   |  |  |
| (b)  | Gantry Crane  |  |  |
| (c)  | Road mobile crane   |  |  |
| (d)  | Rubber Tyre gantry  |  |  |
| 69. Cranes hooks are generally made of   |   |  |  |
| (a)  | High Carbon steel   |  |  |
| (b)  | Wrought iron  |  |  |
| (c)  | Cast steel  |  |  |
| (d)  | Cast iron   |  |  |
| 70.Domestic  | refrigerator working on vapour compression cycle uses the following type of |  |  |
| expansio   | n device.   |  |  |
| (a)  | Electrically operated throttling valve                                      |  |  |
| (b)  | Manually operated valve   |  |  |
| (c)  | Thermostatic valve  |  |  |
| (d)  | Capillary tube  |  |  |
| 71.Which of  | the following is a secondary refrigerant, when used above 0°C?              |  |  |
| (a)  | Sodium chloride   |  |  |
| (b)  | Glycol's  |  |  |
| (c)  | Brines  |  |  |
| (d)  | Water   |  |  |
| 72. Which among the following gases have ability to be repelled by magnetic fields Page 18 of 21 |   |  |  |

| (a)          | Oxygen   |  |  |
|--------------|--|--|--|
| (b)          | Nitrogen   |  |  |
| (c)          | Nitrogen dioxide   |  |  |
| (d)          | Nitric oxide   |  |  |
|              |  |  |  |
| 73. Types of | corrosion in fresh water of Diesel Engines                                   |  |  |
| (a)          | Hot corrosion  |  |  |
| (b)          | Stress   |  |  |
| (c)          | Selective phase corrosion  |  |  |
| (d)          | Bimetallic   |  |  |
|              |  |  |  |
| 74. The c    | oating which is provided on the valve stem of exhaust valves of modern       |  |  |
| marine diese | el engines is of:  |  |  |
| (a)          | Nickel   |  |  |
| (b)          | Stellite   |  |  |
| (c)          | Chromium   |  |  |
| (d)          | Nimonic  |  |  |
|              |  |  |  |
| 75. Which ty | pes of gears are used in constant mesh gearbox?                              |  |  |
| (a           | ) Spur gear  |  |  |
| (b           | ) Helical gear   |  |  |
| (c           | ) Bevel gear   |  |  |
| (d           | ) Worm gear  |  |  |
|              |  |  |  |
| 76. Which a  | 76. Which among of the following is a common material used for bearing bush? |  |  |
| (a)          | Inconel  |  |  |
| (b)          | Copper Page 19 of 21   |  |  |
|              | 1 ugc 17 01 21   |  |  |

| (c)         | Aluminium   |  |  |
|-------------|---|--|--|
| (d)         | Gun Metal   |  |  |
| 77.The type | of coupling used to join two shafts whose axes are neither is same straight |  |  |
| line nor p  | line nor parallel, but intersect is   |  |  |
| (a)         | Oldham's coupling   |  |  |
| (b)         | Universal coupling  |  |  |
| (c)         | Flexible coupling   |  |  |
| (d)         | Chain coupling  |  |  |
|             |   |  |  |
| 8.Which of  | the subsequent is not a transmission shaft type?                            |  |  |
| (a)         | Crank shaft   |  |  |
| (b)         | Counter shaft   |  |  |
| (c)         | Straight shaft  |  |  |
| (d)         | Line Shaft  |  |  |
| 9.The frequ | ency of an alternator at a given RPM is determined by                       |  |  |
| (a)         | Number of turns of wire in the armature coil                                |  |  |
| (b)         | Number of magnetic poles  |  |  |
| (c)         | Strength of the magnets used  |  |  |
| (d)         | Output voltage  |  |  |
| 30.Which is | control the maximum and Minimum Speed of the diesel engine?                 |  |  |
| (a)         | FIP   |  |  |
| (b)         | Governor  |  |  |
| (c)         | Injector  |  |  |
| (d)         | Feed Pump Page <b>20</b> of <b>21</b>                                       |  |  |

