Engagement of Trade Apprentices 55th batch in Ordnance Factories

EX- ITI

Group Code : 2

Q.P. Series : A

ROLL NO.

Sr. No. ........................................

Signature of the Invigilator........................

Date : ____________________

Time : 10:00 AM to 1:00 PM

Duration : 3 hours

Max. Marks : 150

SUBJECT

No. of Questions

PART-I

ENGLISH

15

GENERAL KNOWLEDGE

15

MATHEMATICS

15

APTITUDE / REASONING

15

PART-II

RELEVANT TRADE

90

TOTAL QUESTIONS

150

Instructions:

1. All questions are compulsory.

2. Each question carries 1 mark. There is no negative marking for wrong answer.

3. There are four options-(A), (B), (C), (D) given against each question, out of which only one is correct. Mark your answer by filling bubble on the OMR answer sheet.

4. Candidate has to mark all his responses only on the separate OMR sheet provided.

5. Use only blue or black ball point pen. Use of pencil is not allowed.

6. Before proceeding to mark your response in OMR answer sheet, you have to fill in same particulars carefully in the OMR answer sheet as per your admit card. The OMR shall not be evaluated if incorrect/incomplete details are filled. OMR not signed by the Candidate/Invigilator shall not be evaluated.

7. No sheet from the question paper should be detached.

8. Sheet for rough work is appended in the question paper at the end.

9. If candidate gives more than one answer, it will be treated as wrong answer even if one of given answer happens to be correct.

10. After completion of examination, you have to hand over your OMR answer sheet to Invigilator. Candidate shall be allowed to take the question paper along with him.

Note: The Information Provided here is only for Reference. It may vary the Original.
ENGLISH
Questions : 15

Direction for questions 1 – 3 :
Choose the word which is nearest in meaning to the bold typed word.

Questions :
1. The officer was divested of all power.
   (A) Bared          (B) Denuded        (C) Dispossessed (D) Disrobed

2. He is liked by all for his candid behaviour.
   (A) Social        (B) Simple         (C) Frank        (D) Sociable

3. In his old age the man turned a fatalist.
   (A) Disbeliever in God (B) Believer in God
   (C) Believer in fate    (D) Non-believer in destiny

Direction for questions 4 – 6 :
Choose the best word or expression to complete the sentences.

Questions :
4. He lives in the world of ________.
   (A) allusions        (B) illusions      (C) conclusions (D) delusions

5. The husband was taken aback when his wife ________ to him that she ________ him for his money.
   (A) revealed .... had married          (B) declared .... married
   (C) revealed .... married              (D) confirmed .... has married

6. He informed ________ me to the police.
   (A) about        (B) against        (C) for          (D) with

Direction for questions 7 – 9 :
Choose the OPPOSITE meaning of the given word.

Questions :
7. Transparent
   (A) Obvious       (B) Distinct        (C) Opaque       (D) Consistent

8. Immense
   (A) Insignificant (B) Significant      (C) Huge         (D) Gigantic
9. Modest
   (A) Lenient    (B) Reserved    (C) Humble    (D) Arrogant

Direction for questions 10 – 12:
In each of the following questions various words are given, one of which is wrongly spelt. Find out the WRONGLY SPELT word.

Questions:
10. (A) Broch   (B) Bleak   (C) Bouquet   (D) Baneful
11. (A) Delusion   (B) Dovetail   (C) Divercity   (D) Diffident
12. (A) Doubtfull   (B) Awkward   (C) Ponderous   (D) Distinct

Direction for questions 13 – 15:
Below several disarranged words are given in each question. Arrange them in proper order so that it makes a sense and indicate the index (A or B or C or D) of the word you have chosen to put LAST.

Questions:
13. in of I money am need
   _______ (A) _______ (B) (C) (D)
14. acts care she with
    (A) (B) (C) (D)
15. me your pleased has news
    (A) (B) (C) _______ (D)
16. The 2017 Island tourism Festival has started in which state / union territory?
   (A) Andaman and Nicobar         (B) Gujarat
   (C) Rajasthan                    (D) Lakshadweep

17. The gas usually filled in the electric bulb is
   (A) Nitrogen         (B) Hydrogen    (C) Carbon dioxide  (D) Oxygen

18. The Chardham highway project will come up in which state of India?
   (A) Jharkhand   (B) Sikkim        (C) Bihar          (D) Uttarakhand

19. The largest river of all the west flowing rivers of the peninsular India is
   (A) Tapti       (B) Kaveri         (C) Krishna        (D) Narmada

20. Which bollywood personality has been conferred honorary doctorate by the Maulana Azad National Urdu University?
   (A) Aamir Khan        (B) Nawazuddin Siddiqui
   (C) Shahrukh Khan      (D) Salman Khan

21. Rajiv Gandhi Environment Award is given for outstanding contribution
   (A) to health         (B) to tourism
   (C) to agriculture    (D) in the development of Neat technology

22. Which of the following islands in India was once named “New Denmark”?
   (A) Salsatte Island   (B) Elephanta Island
   (C) Lakshadweep       (D) Andaman & Nicobar Island

23. Veteran actor Om Puri, who passed away recently, was belonged to which state?
   (A) Punjab        (B) Haryana   (C) Uttar Pradesh   (D) Madhya Pradesh

24. Which become the first cricket venue in India to have a roof top solar power plant?
   (A) Jawaharlal Nehru Stadium   (B) Chinnaswamy Stadium
   (C) Salt Lake Stadium         (D) Eden Gardens

25. Which country, on the map of world, appears as "Long Shoe"?
   (A) Portugal    (B) Italy       (C) Greece          (D) Hungary

26. Which state government will launch e-wallet “Tokapoisa.in” for cashless transaction in local language?
   (A) Odisha    (B) Assam        (C) Manipur         (D) Kerala
27. Which of the following atmospheric layers reflects radio waves that are transmitted from the earth and again back to the earth?
   (A) Ionosphere (B) Stratosphere (C) Mesosphere (D) Troposphere

28. Who has won the 2016 Best FIFA Men's player award?
   (A) Cristiano Ronaldo (B) Lionel Messi (C) Carli Lloyd (D) Antonie Griezmann

29. The partition of Bengal was sought to be brought about by
   (A) Lord Curzon (B) Warren Hastings (C) Alfred Lyall (D) Lord Cornwallis

30. The 2017 Vibrant Gujarat Global Investors Summit has started in which city?
   (A) Ahmedabad (B) Rajkot (C) Surat (D) Gandhinagar
31. \((43\% \text{ of } 2750) - (38\% \text{ of } 2990) = ?\)
   \(\text{(A) } 43.6 \quad \text{(B) } 46.3 \quad \text{(C) } 44.7 \quad \text{(D) } 49.3\)

32. A man sells his typewriter at 5% loss. If he sells it for Rs. 80 more, he gains 5%. The cost price of the typewriter is
   \(\text{(A) Rs. 1600} \quad \text{(B) Rs. 1200} \quad \text{(C) Rs. 1000} \quad \text{(D) Rs. 800}\)

33. The sum of the ages of a father and his son is 100 years now. Five years ago, their ages were in the ratio of 2 : 1. The ratio of the ages of father and son after 10 years will be
   \(\text{(A) } 4 : 3 \quad \text{(B) } 5 : 3 \quad \text{(C) } 3 : 5 \quad \text{(D) } 10 : 7\)

34. Which of the following is the value of \(\sqrt[3]{0.000064}\) ?
   \(\text{(A) } 0.004 \quad \text{(B) } 0.02 \quad \text{(C) } 0.04 \quad \text{(D) } 0.2\)

35. A carpenter constructed a rectangular sandbox with a capacity of 10 cubic feet. If the carpenter were to make a similar sandbox twice as long, twice as wide, and twice as high as the first sandbox, what would be the capacity, in cubic feet, of the second sandbox?
   \(\text{(A) } 20 \quad \text{(B) } 40 \quad \text{(C) } 60 \quad \text{(D) } 80\)

36. Rabin has 10 pairs of matched socks. If he loses 7 individual socks, what is the greatest number of pairs of matched socks he can have left?
   \(\text{(A) } 7 \quad \text{(B) } 6 \quad \text{(C) } 5 \quad \text{(D) } 4\)

37. If \(y\) is an integer, then the least possible value of \(|23 - 5y|\) is
   \(\text{(A) } 2 \quad \text{(B) } 3 \quad \text{(C) } 4 \quad \text{(D) } 5\)

38. There are 4 more women than men on Centerville’s board of education. If there are 10 members on the board, how many are women?
   \(\text{(A) } 3 \quad \text{(B) } 4 \quad \text{(C) } 6 \quad \text{(D) } 7\)

39. \(\frac{(0.0036)(2.8)}{(0.04)(0.1)(0.003)} = ?\)
   \(\text{(A) } 840.0 \quad \text{(B) } 84.0 \quad \text{(C) } 8.4 \quad \text{(D) } 0.84\)

40. Machine A produces bolts at a uniform rate of 120 every 40 seconds, and Machine B produces bolts at a uniform rate of 100 every 20 seconds. If the two machines run simultaneously, how many seconds will it take for them to produce a total of 200 bolts?
   \(\text{(A) } 22 \quad \text{(B) } 25 \quad \text{(C) } 28 \quad \text{(D) } 32\)
41. In an increasing sequence of 10 consecutive integers, the sum of the first 5 integers is 560. What is the sum of the last 5 integers in the sequence?
   (A) 585       (B) 580       (C) 575       (D) 570

42. If Mahim loses 8 pounds, he will weigh twice as much as his sister. Together they now weigh 278 pounds. What is Mahim’s present weight, in pounds?
   (A) 131       (B) 139       (C) 147       (D) 188

43. The water from one outlet, flowing at a constant rate, can fill a swimming pool in 9 hours. The water from a second outlet, flowing at a constant rate, can fill the same pool in 5 hours. If both outlets are used at the same time, approximately what is the number of hours required to fill the pool?
   (A) 0.22      (B) 2.50      (C) 3.21      (D) 4.56

44. If \( x + 5 > 2 \) and \( x - 3 < 7 \), the value of \( x \) must be between which of the following pairs of numbers?
   (A) -3 and 10  (B) -3 and 4  (C) 2 and 7    (D) 3 and 4

45. Car A is 20 miles behind Car B, which is traveling in the same direction along the same route as Car A. Car A is traveling at a constant speed of 58 miles per hour and Car B is traveling at a constant speed of 50 miles per hour. How many hours will it take for Car A to accelerate and drive 8 miles ahead of Car B?
   (A) 2.0       (B) 2.5       (C) 3.0       (D) 3.5
APTITUDE / REASONING
Questions – 15

46. Pointing to a boy in a photograph Akhil says, “He is the son of my mother’s only son’s son”. How is Akhil related to that boy?
   (A) Uncle         (B) Brother
   (C) Father        (D) Grandfather

Direction for questions 47 – 49:
Read the following information to answer the questions:
Symbolise the given number and symbol:

<table>
<thead>
<tr>
<th>Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol</td>
<td>×</td>
<td>×</td>
<td>?</td>
<td>+</td>
<td>$</td>
<td>$</td>
<td>+</td>
<td>$</td>
<td>Δ</td>
</tr>
</tbody>
</table>

i) If any number begins by odd number then the odd number symbolized as @.
ii) If any number ends by even number then the even number symbolized as ⊙.

Questions:

47. Which of the following will be the symbol of 673258?
   (A) * + ? * $ !
   (B) @ + ? * $ !
   (C) @ + ? * $ !
   (D) * + ? * $ ⊙

48. Which of the following will be the symbol of 846721?
   (A) ⊙ ÷ * * x
   (B) ! ÷ * * @
   (C) ! ÷ * * x
   (D) ⊙ ÷ * * x

49. Which of the following will be the symbol of 178524?
   (A) @ + ! $ * ⊙
   (B) × + ! $ ⊙
   (C) @ + ! $ ⊙
   (D) None of these

50. If NAXALITE is written in a certain code as LYVYJGRC, how will INTEGRATE be written in the same code?
   (A) LGRECYPYRC
   (B) GLRCEPYRC
   (C) RYWMNOPQQR
   (D) BLACKHOLE

Note: The Information Provided here is only for Reference. It may vary the Original
Direction for questions 51 – 54:

In each of the following questions, some words are given which are related in some way. The same relationship obtains among the words in one of the four alternatives given under it. Find the correct alternative.

Questions:

51. Lizard : Reptile : Insects
   (A) Fox : Wolf : Forest
   (B) Fly : Insect : Bee
   (C) Man : Omnivorous : Meat
   (D) Tiger : Mammal : Deer

52. Magazine : Story : Article
   (A) Tea : Milk : Sugar
   (B) Television : Newspaper : Entertainment
   (C) Bed : Quilt : Pillow
   (D) Novel : Drama : Literature

53. Dog : Squirrel : Tail
   (A) Cottage : Hut : Palace
   (B) Fish : Crocodile : Water
   (C) Horse : Ox : Horn
   (D) Truck : Scooter : Gear

54. Smile : Laugh : Cry
   (A) Sit : Sleep : Play
   (B) Frown : Anger : Temper
   (C) Morning : Night : Day
   (D) Touch : Catch : Release

55. A man travels 3 kms to the West, turns left and goes 3 kms, turns right and goes 1 km, again turns right and goes 3 kms. How far is he from the starting point?
   (A) 7 kms
   (B) 6 kms
   (C) 5 kms
   (D) 4 kms

Direction for questions 56 – 59:

Read the information given below and answer the following questions on the basis of the information provided.

i) There is a family of 5 persons A, B, C, D and E.

ii) They are working as a doctor, a teacher, a trader, a lawyer and a farmer.

iii) B, an unmarried teacher, is the daughter of A.

iv) E, a lawyer, is the brother of C.

v) C is the husband of the only married couple in the family.

vi) A, a farmer, is a father of two sons and an unmarried daughter.

vii) Daughter-in-law of A is a doctor.
Questions:

56. Which of the following is a group of female members in the family?
   (A) B and D     (B) D and E     (C) A, C and E     (D) B and C

57. Who is the trader in the family?
   (A) A     (B) B     (C) C     (D) D

58. Which of the following is the married couple?
   (A) A and B     (B) C and D     (C) A and D     (D) B and D

59. Who is the doctor in the family?
   (A) A     (B) B     (C) C     (D) D

60. Which pair of English letters should be the next in the series of pairs of letters of English alphabet given below?
    BE  GK  MR  TZ  BI
   (A) JR     (B) KS     (C) JS     (D) KR
GROUP - 2
Questions : 90

61. The following thing is usually used for smithy work
   (A) Slab  (B) Ingot  (C) Billet  (D) Bloom

62. The temperature of the oxyacetylene flame in its highest region is about
   (A) 2000°C  (B) 3000°C  (C) 3200°C  (D) None of these

63. To lift heavy and large sized pattern, _______ is used.
   (A) gaggers  (B) rapping plate  (C) chaplets  (D) draw spike

64. A fixture is a device which
   (A) can hold and locate the job  (B) cannot guide the tool
   (C) is usually heavier in construction  (D) All of these

65. The best metal to work for a sheet metal component is
   (A) silver  (B) copper  (C) aluminium  (D) stainless steel

66. Which of the following is an example of fillet welds?
   (A) Seam  (B) Convex  (C) Spot  (D) All of these

67. In smithy shop, job is heated in
   (A) open fired furnace  (B) hearth
   (C) All of these  (D) None of these

68. Sprue in casting refers to
   (A) gate  (B) vertical passage  (C) riser  (D) None of these

69. Moulding sand can contain maximum _______ of moisture in it.
   (A) 5%  (B) 8%  (C) 10%  (D) 12%

70. Snip is used for cutting
   (A) threads  (B) hollow pipes  (C) light sheet metal  (D) None of these

71. A deep conical part of metal can be easily made by
   (A) drawing  (B) raising  (C) spining  (D) None of these

72. The formation of gas pockets on the surface of weld metals is called
   (A) cracks  (B) porosity  (C) cold shut  (D) under cut

73. During forging, heating on steel creates the formation of
   (A) scab  (B) burrs  (C) scale  (D) All of these

Note: The Information Provided here is only for Reference. It may vary the Original
74. Which of the following frequency is normal in case of A.C. are welding?
   (A) 40 Hz  (B) 50 Hz  (C) 60 Hz  (D) None of these

75. Green sand is a mixture of
   (A) 70% sand, 30% clay  (B) 30% sand, 70% clay
   (C) 50% sand, 50% clay  (D) None of these

76. Resistance welding is used in
   (A) tubing  (B) steel piping
   (C) sheet metal working  (D) Any one of these

77. Cylindrical shapes are formed on a
   (A) cylinder maker  (B) forming rollers  (C) cornice brake
   (D) None of these

78. Soft solder is melted at
   (A) 400°C  (B) 260°C  (C) 600°C  (D) 800°C

79. Uniform heating of stock is possible by ________ heating.
   (A) oil  (B) electric  (C) gas  (D) coal

80. ________ is required to repair the corner of mould cavity.
   (A) Slick  (B) Sieve  (C) Spade  (D) Towel

81. Inner surfaces of the sand mould are coated with refractory material such as
   (A) coal  (B) talc  (C) graphite  (D) All of these

82. For minimum scaling, the following heating process is most suitable.
   (A) Coal heating  (B) Gas heating  (C) Electric heating  (D) Oil heating

83. Copper sheet is preferred for making utensils because of
   (A) good ductility  (B) high strength
   (C) high heat conductivity  (D) All of these

84. In gas welding, the flame produced by excess O₂ is called
   (A) neutral flame  (B) reducing flame  (C) oxidising flame  (D) None of these

85. For easy control and economy in forging, the following fuel is used
   (A) Coal  (B) Gas  (C) Oil  (D) Both (B) and (C)

86. The operator works more easily without safety equipments in case of
   (A) MIG  (B) TIG  (C) Submerged  (D) Thermit

87. Floor sand is also known as
   (A) backing sand  (B) facing sand  (C) parting sand  (D) None of these
88. Local thining down is effected by
   (A) cross peen hammer    (B) sledge hammer
   (C) set hammer            (D) None of these

89. Folding is working of edges usually at right angles to the metal surface for a
   (A) cylindrical job   (B) round flat job
   (C) rectangular flat job  (D) None of these

90. In welded joint, poor fusion occurs due to
   (A) lack of proper current      (B) lack of flux
   (C) high welding speed          (D) None of these

91. The following hammer is NOT related to smithy work.
   (A) Steam drop hammer      (B) Hand hammer
   (C) Small power hammer     (D) None of these

92. For greater size of casting, the following type of sand should be used
   (A) Fine grain              (B) Medium grain
   (C) Coarser grain          (D) None of these

93. Synthetic sand is suitable for
   (A) heavily cored casting   (B) high pressure moulding
   (C) Both (A) & (B)         (D) None of these

94. ________ hammer is NOT used for smithy work.
   (A) Hand                        (B) Steam drop
   (C) Small power                (D) None of these

95. A sheet metal pattern is
   (A) a full size drawing of the object
   (B) an isometric drawing of the object
   (C) a three dimensional drawing of the object
   (D) None of these

96. The following method is usually used for welding of cast iron.
   (A) TIG                      (B) MIG
   (C) Arc                      (D) Gas

97. If grain growth becomes excessive, then forgeability
   (A) increases              (B) decreases
   (C) first decreases then increases (D) does not depend on grain growth

98. MIG welding m/c is run by
   (A) D.C. straight polarity    (B) D. C. reverse polarity
   (C) Both (A) & (B)           (D) None of these
99. Gate is cut in the
   (A) cheek  (B) drag
   (C) cope  (D) both drag and cope

100. A rivet has three portions, which are known as
   (A) head, heel & tail  (B) head, shank and tail
   (C) head, peen and tail  (D) None of these

101. Stakes are very important tools used in
   (A) forging  (B) welding
   (C) sheet metal working  (D) heat treatment

102. Plain and butt welds may be used on materials up to approximately _______ thick.
   (A) 25 mm  (B) 40 mm  (C) 50 mm  (D) None of these

103. Which of the following is NOT a part of heating furnace?
   (A) Recuperator  (B) Fire box  (C) Pressure gauge  (D) Chimney

104. Facing sand comprises of
   (A) silica, water  (B) clay, amonia  (C) clay, silica  (D) None of these

105. Pouring basin is formed in the
   (A) drag  (B) cope  (C) cheek  (D) None of these

106. In smithy shop, _______ furnace is NOT used.
   (A) open fired  (B) closed oil fired  (C) hearth  (D) None of these

107. Which one of the following is an example of sheet metal operation?
   (A) Nibbling  (B) Slitting  (C) Lancling  (D) All of these

108. Electrode is NOT used as filler metal in case of —
   (A) TIG  (B) Submerged  (C) MIG  (D) None of these

109. A fire which is thin and spreads all over the hearth is
   (A) useless  (B) usefull  (C) very effective  (D) None of these

110. For welding of steel with metal inert gas welding, the following flux is used.
    (A) Helium  (B) Carbon di-oxide  (C) Nitrogen  (D) None of these

111. Gaggers is used for
    (A) cleaning the moulding sand  (B) repairing the mould
    (C) re-enforcing the sand in the cope  (D) None of these

112. The surface of the metal to be electroplated must be prepared properly before coating by
    means of
    (A) honing  (B) buffing  (C) lapping  (D) None of these
113. The development of surfaces can be done by
(A) radial line method (B) parallel line method
(C) triangle method (D) All of these

114. Neutral flame is used for the following operation.
(A) Welding (B) Cutting (C) Both (A) & (B) (D) None of these

115. In the spot where the flame is desired, the coal should be loosened with a
(A) shovel (B) tuyer (C) pocker (D) None of these

116. The mould is housed in a
(A) cope (B) drag (C) chaplet (D) flask

117. ______ is used to scrape off the excess sand level from the top of the flask.
(A) Strickle (B) Rapping plate (C) Sprue (D) Chaplets

118. In open fire, coke is drawn
(A) into the centre (B) to the top (C) to the sides (D) Any one of these

119. For production work, shearing machine is used to
(A) cut sheet metal (B) bend sheet metal (C) fold sheet metal (D) None of these

120. In case of leftward welding, the head of the blow pipe is held at an angle of ______ to the plane of weld.
(A) 20° to 30° (B) 40° to 50° (C) 60° to 70° (D) None of these

121. During hammering, blacksmith's work is supported by
(A) swage block (B) anvil (C) flatter (D) surface plate

122. The size of gas welding tips depends upon the ______ of metal to be welded.
(A) type (B) thickness (C) All of these (D) None of these

123. Sands are graded according to their
(A) permeability (B) strength (C) moisture content (D) clay content and grain size

124. Gun metal is an alloy of
(A) tin, Cu, lead (B) tin, Cu, zinc (C) tin and lead (D) None of these

125. Slip roll forming m/c is used to give ______ shape of a sheet metal.
(A) square (B) triangular (C) cylindrical (D) None of these

126. For high pressure gas welding, the plate thickness should be
(A) less than 10 mm (B) less than 20 mm (C) greater than 25 mm (D) None of these
127. During forging, grains of steel becomes
   (A) elongated    (B) broken up    (C) larger    (D) squeezed

128. In sand moulding, the middle part of the flask is called —
   (A) cope     (B) drag    (C) cheek    (D) chaplet

129. Loose pieces of the loose piece pattern are removed separately from the mould cavity by a tool known as
   (A) skewer    (B) draw spike    (C) runner    (D) None of these

130. The following coal is suitable for use in stock fire
   (A) Pulverized coal    (B) Lumped coal    (C) Hard coke    (D) All of these

131. To do away the sharp edges of the sheet metal, the edges are bent by folding, which is known as
   (A) seams    (B) hems    (C) crimping    (D) None of these

132. Open circuit voltage for arc welding is normally in the range of
   (A) 25 – 30 volts    (B) 40 – 50 volts    (C) 50 – 90 volts    (D) None of these

133. Wrought iron is best forged at a temperature little below
   (A) 1300°C    (B) 1000°C    (C) 800°C    (D) 500°C

134. Flame temperature of city gas is about
   (A) 1700°C    (B) 2000°C    (C) 2300°C    (D) None of these

135. Oxygen cylinders are ________ cylinder.
   (A) cast iron    (B) alloy steel    (C) seamless steel    (D) None of these

136. A twist drill bit should be ground with both lips at
   (A) 30°    (B) 45°    (C) 59°    (D) 60°

137. The operation of cutting of flat sheet to the desired shape is known as
   (A) punching    (B) piercing    (C) blanking    (D) None of these

138. Electrode holder is required for
   (A) arc welding    (B) gas welding    (C) gas cutting    (D) All of these

139. For bending rods of small diameter in smithy work, the following hole of anvil is to be used.
   (A) Pritchel hole    (B) Hardie hole    (C) Both (A) and (B)    (D) None of these

140. Cow dung is sometimes used in —
   (A) dry sand moulding    (B) green sand moulding    (C) pit moulding    (D) None of these
141. Arc blow is a welding defect which is encountered in _______ welding.
(A) thermit (B) gas (C) metal inert gas (D) None of these

142. Anodising is a _______ process.
(A) oxidation (B) reduction (C) electroplating (D) None of these

143. The operation of bending a sheet metal to the desired shape for accommodating a screw through the produced hole is known as —
(A) plunging (B) cupping (C) curling (D) drawing

144. For welding thin material with D.C., work is connected with
(A) positive (B) negative (C) Any one of these (D) None of these

145. In smithy work, weight of the anvil vary upto about—
(A) 50 to 75 kg (B) 75 to 100 kg (C) 100 to 150 kg (D) None of these

146. Chaplet is used to support the
(A) coreprint (B) chill (C) riser (D) None of these

147. To repair the corner of the mould cavity _______ is used.
(A) trowel (B) slick (C) spade (D) None of these

148. In smithy work, for many sizing, squaring, bending & forming operations, _______ is used as a tool.
(A) anvil (B) flatter (C) swage block (D) None of these

149. The development of elbows are done by
(A) triangle method (B) radial line method
(C) parallel line method (D) None of these

150. For cracking of weld metal, the following thing is responsible
(A) Surface tension (B) Shrinkage (C) Metal fluidity (D) None of these