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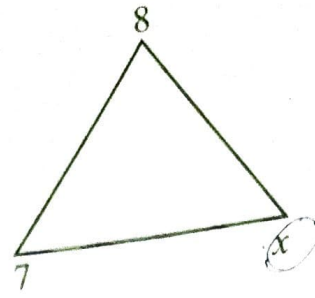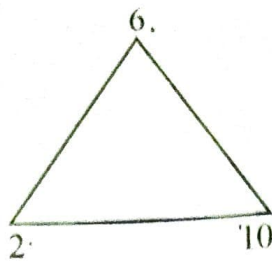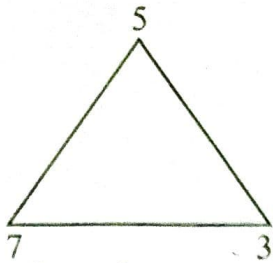⭐ **Free Mock tests available**

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GMRC JE

Previous Year Paper
(Mechanical) 27 Mar, 2022

001.

Find the value of x.
(A) 6 (B) 7
(C) 8 (D) 9

002. 1.5, 2.3, 3.1, 3.9, ...
What number should come next?
(A) 4.2 (B) 4.4
(C) 4.7 (D) 5.1

003. Which word does not belong to others?
(A) heading (B) body
(C) letter (D) closing

004. Which word does not belong to others?
(A) twine (B) cord
(C) yarn (D) measure tape

005. Analogies:
Play is to actor as concert is to ....
(A) Symphony (B) musician
(C) piano (D) percussion

006. Analogies:
Sponge is to porous as rubber is to ....
(A) massive (B) solid
(C) elastic (D) inflexible

007. Statement and assumptions:
→ I have not received telephone bill for last 8 months inspite of several reminders.
↠ 1) every customer has a right to get bill.
  2) This is defect in the services and need correction.
(A) only assumption 1 is implied (B) only assumption 2 is implied
(C) neither 1 nor 2 is implied (D) Both 1 and 2 are implied

008. Statement and assumptions:
→ Be humble even after being victorious.
↠ 1) Many people are humble after victory.
  2) Generally people are not humble.
(A) only assumption 1 is implicit (B) only assumption 2 is implicit
(C) neither 1 nor 2 is implicit (D) Both 1 and 2 are implicit

009. Statement and conclusion:
→ Jade plant has thick leaves and it requires little water.
↠ 1) All plants with thick leaves need little water
  2) Jade plant may be grown in place where is not in abundance
(A) only conclusion 1 follows (B) only conclusion 2 follows
(C) Both conclusion 1 and 2 follow (D) Neither 1 nor 2 follow

010. Statement and conclusion:
→ Use kraft colours, they add colours to your life - An advertisement
⇸ 1) Catchy slogans do not attract people
   2) People like dark colours

(A) only conclusion 1 follows   (B) only conclusion 2 follows
(C) Both conclusion 1 and 2 follow   (D) Neither 1 nor 2 follow

011. Cause and effect:
1) The Government has imported large quantities of sugar from other nations
2) The price of sugar, in the domestic market have fallen sharply.

(A) The statement 1 is cause and 2 is effect
(B) Statement 2 is cause and 1 is effect
(C) Both 1 and 2 are independent causes
(D) Both 1 and 2 are effect of common cause

012. Cause and effect:
1) There is a sharp decline in the production of oil seeds.
2) The Government has decided to import large quantum of edible oil.

(A) Statement 1 is cause and 2 is its effect
(B) Statement 2 is cause and 1 is its effect
(C) Both statements are independent causes
(D) Both statements are effect of common cause

013. Logical - deduction:
→ No gentleman is poor. All gentlemen are rich.
⇸ 1) No poor man is rich
   2) No rich man is poor

(A) Only conclusion 1 follows   (B) Only conclusion 2 follows
(C) Either 1 or 2 follows   (D) Neither 1 nor 2 follows

014. Logical - deduction:
→ All fishes are gray in colour. Some fishes are heavy.
⇸ 1) All heavy fishes are gray in colour.
   2) All light fishes are not gray in colour.

(A) Only conclusion 1 follows   (B) Only conclusion 2 follows
(C) Either 1 or 2 follows   (D) Neither 1 nor 2 follows

015. Letter and symbol series.
ZA_5, Y_4B, XC_6, W_3D, ...
Fill in the blank

(A) E_7V (B) V_2E
(C) VE_5 (D) VE_7

016. JAK, KBL, LCM, MDN, ...
Fill in the blank.

(A) OPE   (B) NEO
(C) MEN   (D) PFQ

017. Essential Part:
"Pain"

(A) cut   (B) burn
(C) nuisance   (D) hurt
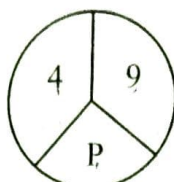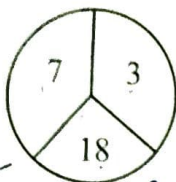
018. Essential Part:
Monopoly
- (A) corrupt
- (B) exclusive
- (C) rich
- (D) gigantic

019. 14, 28, 20, 40, 32, 64, ... and ....
What number should come next?
- (A) 56 and 112
- (B) 52 and 104
- (C) 46 and 92
- (D) 44 and 88

020.

Find the value of P.
- (A) 30
- (B) 31
- (C) 32
- (D) 33

021. How many numbers are there in between 1 to 100 which are pefectly divisible by 9?
- (A) 20
- (B) 24
- (C) 12
- (D) 11

022. Complete the series.
1, 2, 2, 4, 8, 32, (?)
- (A) 128
- (B) 256
- (C) 40
- (D) 64

023. Three fifths of a number is 30 more than 50 percent of that number. What is the 80% of that number?
- (A) 240
- (B) 60
- (C) 300
- (D) 340

024. Average Age of 'A' and 'B' is 20 years. If 'C' were to replace 'A' the average would be 19 and if 'C' were to replace 'B' the average would be 21. What are the age of 'A', 'B' and 'C' respectively?
- (A) 18, 22, 20
- (B) 19, 20, 21
- (C) 28, 22, 20
- (D) 22, 18, 20

025. Reena invested an amount of rupees 17,500 at the rate of 8 percent/annum. After how many years will she obtain a simple interest of Rupees 16,800?
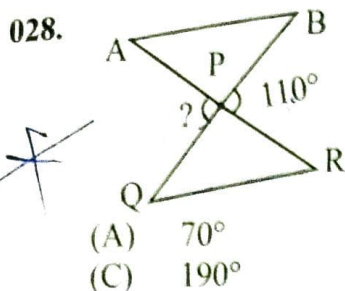- (A) 15 years
- (B) 8 years
- (C) 9 years
- (D) 12 years

026. A car covers a certain distance at the speed of 54 k.m.p.h. in 8 hours. What is the distance covered by car?
- (A) 428 k.m.
- (B) 432 k.m.
- (C) 444 k.m.
- (D) 106 k.m.

027. A boat running upstream covers a distance of 10 kms in 30 minutes. and while running downstream with same speed it covers same distance in 25 minutes. What is the speed of the river current in kmph?

(A) 20 k.m. per hour
(B) 2.2 k.m. per hour
(C) 2 k.m. per hour
(D) None of these

028. What is the measure of ∠APQ in the given figure?

(A) 70°
(B) 20°
(C) 190°
(D) 110°

029. Find out the total Area of the shaded figure.
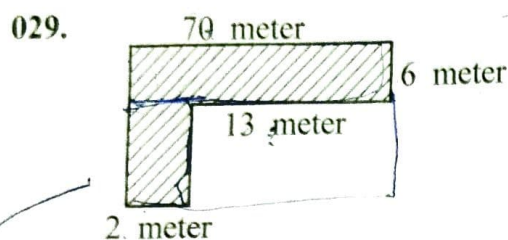
(A) 10920 sq. mt.
(B) 394 sq. mt.
(C) 446 sq. mt.
(D) 204 sq. mt.

030. Find out the wrong number placed in a given series.

2, 10.5, 53, 265.5, 1327.5, 6640.5

(A) 10.5
(B) 6640.5
(C) 1327.5
(D) 53

031. What value should come in place of question mark?

$(\sqrt{8} \times \sqrt{8})^{1/2} + (9)^{1/2} = (?)^3 + \sqrt{8} - 340$

(A) 7
(B) 19
(C) 9
(D) 18

032. Leela, Meena and Geeta start running around a circular stadium and complete one round in 24 seconds, 6 seconds and 14 seconds respectively. In how much time they will meet again at the starting point?

(A) 2 minutes 48 seconds
(B) 4 minutes 8 seconds
(C) 3 minutes 25 seconds
(D) 1 minute 32 seconds

033. A certain sum is divided between two persons in the ratio of 3:4. If the share of one person is rupees 20 less than the other, find out the sum.

(A) 120 rupees
(B) 240 rupees
(C) 140 rupees
(D) 130 rupees

034. Find the area of a square whose diagonal is 4.2 meter long.

(A) 8.89 m²
(B) 8.82 m²
(C) 8.56 m²
(D) 8.80 m²

035. What is the value of 225 hours in days?

(A) $8 \frac{9}{24}$ days
(B) 9 days
(C) $9 \frac{3}{8}$ days
(D) $9 \frac{5}{24}$ days

036. By selling an article for rupees 3375 a person loses 10%. Find his profit percent if he sells it for rupees 4500.

(A)   18 %
(B)   20 %
(C)   30 %
(D)   16 %

037. 20 persons can make 15 toys in 12 hours. How many toys can 10 persons make in 8 hours?

(A)   20 Toys
(B)   8 Toys
(C)   10 Toys
(D)   5 Toys

038. Five persons entered a lift cabin on the ground floor of an eight floor house. Suppose that each of them can leave the cabin independently at any floor begining with the first. Find out total number of ways in which each of the five persons can leave the cabin at any of the 7 floors?

(A) 7^5 ways
(B) 5^7 ways
(C) 8^7 ways
(D) 7^8 ways

039. One gross is equal to ....

(A)   24 Dozens
(B)   144 Dozens
(C)   12 Dozens
(D)   16 Dozens

040. Find the number of ways in which ten candidate $A_1, A_2, A_3, ... A_{10}$ can be ranked so that A_1 is always above A_2.

(A) $\dfrac{10!}{2}$
(B)   10!
(C) $\dfrac{8!}{2}$
(D)   9!

041. Pick up correct synonyms for "AFFLUENT"

(A)   Prosperous
(B)   Poor
(C)   Talkative
(D)   Close

042. Pick up correct synonyms for "TERMINATE"

(A)   Suspend
(B)   Dismiss
(C)   Put to an end
(D)   Interrupt

043. Pick up correct Antonyms for the following word: "AUTONOMY"

(A)   Submissiveness
(B)   Dependence
(C)   Subordination
(D)   Slavery

044. Pick up correct Antonyms for the following word: "TRAGEDY"

(A)   Humorous
(B)   Comedy
(C)   Romance
(D)   Calamity

045. Evaluate the following statements:

1) Cannons are used in war.
2) The Geeta deals with high canons of morality and religion.

(A)   Only statement 1 is correct
(B)   Only statement 2 is correct
(C)   Both 1 and 2 statements are correct
(D)   Both 1 and 2 statements are not correct

046. Evaluate the following statements.
1) A painter is artiste.
2) Raj Kapoor is a skilled artist
  (A) Only statement 1 is correct
  (B) Only statement 2 is correct
  (C) Both 1 and 2 statements are correct
  (D) Both 1 and 2 statements are not correct

047. Select the word for given words/sentence.
"To examine one's own thoughs and feelings".
  (A) Meditation   (B) Retrospection
  (C) Reflection   (D) Introspection.

048. Select the word for given words/sentence.
"Life history of a person, written by another".
  (A) Autobiography   (B) Biography
  (C) Bibliography   (D) Memoir

049. Fill in the blank:
"His actions had .... pain and suffering on thousands of people".
  (A) deplored   (B) eliminated
  (C) affected   (D) inflicted

050. Fill in the blank:
He has good .... over the famous world languages.
  (A) authority   (B) expertise
  (C) command   (D) hold

051. Fill in the blank:
"He left the book .... the telephone".
  (A) around   (B) beside
  (C) besides   (D) at

052. Fill in the blank:
"The waiter took the plates ...., after we had finished eatings".
  (A) up   (B) off
  (C) away   (D) out

053. Find the correctly spelt word.
  (A) Vetarinary   (B) Vateninary
  (C) Vatinary   (D) Vaterinary

054. Find the correctly spelt word.
  (A) Excessive   (B) Exccessive
  (C) Exxcesive   (D) Excesive

055. Ordering the words.
The proper sequence should be
We have to
P) as we see it.
Q) speak the truth
R) there is falsehood and weakness
S) even if all around us
  (A) RQSP   (B) QRPS
  (C) RSQP   (D) QPSR

056. The proper sequence should be

- He knew that

P – and then to save himself

Q – was to save all the lives

R – entrusted to his care

S – the duty of a captain

(A) PQRS

(B) SQRP

(C) SPRQ

(D) QSRP

057. One word for, "the study of ancient societies or human history".

(A) Anthropology

(B) Archaeology

(C) History

(D) Enthology

058. One word for "A person who insists on something"

(A) Disciplinarian

(B) Sticker

(C) Instantaneous

(D) Boaster

059. Select the pair which has the same relationship.

AFTER : BEFORE

(A) First : Second

(B) Present : Past

(C) Contemporary : Historic

(D) Successor : Predecessor

060. Select the pair which has the same relationship.

ARMY : LOGISTICS

(A) business : strategy

(B) soldier : student

(C) war : logic

(D) team : individual

061. The example of rolling pain is

(A) Lead screw of a teethe

(B) Ball bearing and Roller bearing

(C) Bolt and Nut

(D) Ball and Socket Joint

062. One newton is equal to

(A) 10^3 dyne

(B) 10^4 dyne

(C) 10^5 dyne

(D) 10^7 dyne

063. The property of a material by virtue of which a body returns to its original shape after removal of the load is called

(A) Elasticity

(B) Plasticity

(C) Malleability

(D) Ductility

064. The term N.T.P. stands for

(A) Nominal temperature and pressure

(B) Natural temperature and pressure

(C) Normal thermodynamic practice

(D) Normal temperature and pressure

065. Measurement of temperature is based on

(A) Zeroth law of thermodynamics

(B) First law of thermodynamics

(C) Second law of thermodynamics

(D) Third law of thermodynamics

066. One bar is equal to

(A) 1.0197 kgf/cm^2

(B) 1.033 kgf/cm^2

(C) 100 kgf/cm^2

(D) 1.000 kgf/cm^2

067. Kelvin plank's law deals with
(A) Conservation of heat
(B) Conservation of work
(C) Conversion of heat into work
(D) Conversion of work into heat

068. Sublimation is the process of
(A) Changing from solid state to direct gas state
(B) Changing from gas state to direct solid state
(C) Existence to liquid and gases together
(D) Existence of solid, liquid and gas simultaneously

069. General gas equation is
(A) $PV = T$
(B) $PV = mRT$
(C) $PV^n = C$
(D) $PV = \frac{1}{3} nRT$

070. Superheated vapour behaves
(A) As dry saturated steam
(B) As ordinary vapour
(C) As ideal gas approximately
(D) As average of gas and vapour

071. The higher temperature in vapour compression cycle occurs at
(A) Expansion valve
(B) Evaporator
(C) Condenser discharge
(D) Compressor discharge

072. The heating of dry and saturated steam above saturation temperature is known as
(A) Enthalpy
(B) Superheating
(C) Supersaturation
(D) Latent heat

073. The Cocharan boiler is a
(A) Horizontal fire tube boiler
(B) Horizontal water tube boiler
(C) Vertical water tube boiler
(D) Vertical fire tube boiler

074. The poor surface finish and fast wear of tool are the characteristics of
(A) Discontinuous chips
(B) Continuous chips
(C) Continuous chips with built up edges
(D) Inhomogeneous chips

075. In a turning operation, the job with respect to tool has following motion.
(A) Translators motion
(B) Rotary motion
(C) Rotary and translator motion
(D) No motion

076. Forge welding is best suited for
(A) Stainless steel
(B) High carbon steel
(C) Cast iron
(D) Wrought iron

077. Arc stability is better with
(A) AC welding
(B) DC welding
(C) Both AC and DC welding
(D) Rectified supply

078. The purpose of differential gear in an automobile is to
(A) Provide balancing of rotating wheels
(B) Helps in smooth turning of vehicle
(C) Reduce the speed of propeller shaft
(D) Reduce the speed from engine to rear axle

079. Rivets are made of
(A) Brittle materials
(B) Soft materials
(C) Ductile materials
(D) Any of above

080. The advantage of V-belt drive over flat-belt drive is
(A) Noiseless drive
(B) Higher velocity ratios
(C) Used for smaller center distance
(D) All of above

081. In case of 4-stroke engine, the power is produced
(A) Once in a two revolution of crank
(B) Once in a four revolution of crank
(C) Once in every stroke of piston
(D) Once in a one revolution of crank

082. The process of supercharging is intended for
(A) Raising exhaust pressure
(B) Increasing density of intake air
(C) Increasing quantity of fuel into cylinder
(D) Providing air for cooling

083. The air-fuel ratio in a petrol engine is controlled by
(A) Governor
(B) Injector
(C) Carburettor
(D) Fly-wheel

084. A double acting reciprocating air compressor compresses air
(A) in two cylinders simultaneously at same pressure
(B) in two cylinder in succession
(C) on both sides of piston in the same cylinder
(D) on one side of piston only

085. If air is to be compressed to fairly high pressure which one is preferable?
(A) multistage reciprocating compressor with Inter cooling
(B) multistage reciprocating compressor without inter cooling
(C) multistage rotary compressor with inter cooling
(D) multistage rotary compressor without inter cooling

086. The ratio of dynamic or absolute viscosity to the density is
(A) Co-efficient of viscosity
(B) Co-efficient of friction
(C) Co-efficient of flow
(D) Kinematic viscosity

087. In which of the following turning process tool does not travel parallel to the spindle axis?
(A) Thread cutting
(B) Internal boring
(C) Taper turning by offsetting tailstock
(D) Taper turning by using attachment to guide lathe saddle

088. In a milling machine, the feed is provided by moving
(A) a rotating cutter into a stationary work piece
(B) a rotating cutter into a reciprocating work piece
(C) a reciprocating cutter into a stationary work piece
(D) a work piece into a rotating cutter

089. In which operation tool does not rotate?
(A) Planing
(B) Grinding
(C) Drilling
(D) Milling

090. Swaging is an operation of
(A) Forging
(B) Extrusion
(C) Piercing
(D) Rolling

091. The mould is housed in a
(A) cope
(B) drag
(C) pouring basin
(D) flask

092. A casting process which can produce hollow cylinder without use of core is
(A) Pressed casting
(B) Slush casting
(C) Permanent mould casting
(D) Semi permanent mould casting

093. In a centrifugal pump casing, the flow of water conforms to
(A) Radial flow
(B) Free vortex flow
(C) Forced vertex motion
(D) Spiral flow

094. A pitot tube measures
(A) Static Pressure
(B) Dynamic Pressure
(C) Total Pressure
(D) Difference between static and dynamic pressure

095. For pumping viscous oil, which pump will be used?
(A) Centrifugal Pump
(B) Reciprocating Pump
(C) Turbine Pump
(D) Screw Pump

096. In an impulse reaction turbines, the pressure drops
(A) in a fixed nozzles
(B) in a moving blades
(C) in a fixed blades
(D) in both fixed and moving blades.

097. The compression ratio of petrol engine usually varies in the range of
(A) 1-5
(B) 6-12
(C) 13-20
(D) 21-30

098. The thermal efficiency of a diesel engine is approximately
(A) 35%
(B) 15%
(C) 65%
(D) 90%

099. Mechanical efficiency is expressed by the ratio of
(A) Brake power to Indicated power
(B) Indicated power to Brake power
(C) Indicated power to Friction power
(D) Friction power to Brake power

100. The thermit welding develops heat due to chemical reaction between.
(A) Aluminium oxide and zinc
(B) Iron oxide and zinc
(C) Aluminium oxide and finely powdered iron
(D) Iron oxide and finely powdered aluminium

101. અલંકાર ઓળખાવો.
"દીકરાઓ પાણીની પેઠે પૈસો વાપરે છે."
(A) ઉત્પ્રેક્ષા   (B) રૂપક
(C) વ્યતિરેક   (D) ઉપમા

102. "સરદાર પટેલ લોખંડી પુરુષ હતા."
લીટી દોરેલો શબ્દ કયું વિશેષણ?
(A) ગુણવાચક વિશેષણ   (B) દ્રવ્યવાચક વિશેષણ
(C) ક્રમવાચક વિશેષણ   (D) સંખ્યાવાચક વિશેષણ

103. 'ગધેડો' શબ્દનો સમાનાર્થી શબ્દ કયો?
(A) વાજી
(C) વૈશાખનંદન   (B) ગાંધર્વ
                      (D) ગિરધર

104. ગુજરાતની પ્રચલિત ગુજરાતી કહેવતમાં ખાલી જગા પૂરો.
"ઘરમની ગાયના ...."
(A) આંચળ ના જોવાય   (B) કાન ના જોવાય
(C) પગ ના જોવાય   (D) દાંત ના જોવાય

105. "ટ્રેન એકદમ ઉપડી."
લીટી દોરેલો શબ્દ કયો અવ્યય છે?
(A) સ્થળવાચક ક્રિયાવિશેષણ અવ્યય
(B) કાળવાચક ક્રિયાવિશેષણ અવ્યય
(C) રીતિવાચક ક્રિયાવિશેષણ અવ્યય
(D) નામયોગી અવ્યય

106. "ઢાળ ચડ્યો એમાં શી ધાડ મારી!" ક્યા પ્રકારનું વાક્ય છે?
(A) પ્રશ્ન વાક્ય
(C) વિધિવાક્ય   (B) ઉદ્ગાર વાક્ય
                (D) ત્રણમાંથી એકેય નહીં

107. "આપણી સંસ્કૃતિને આપણે ઓળખવી જોઈએ."
આ વાક્યમાં અર્થવ્યવસ્થા ક્યા પ્રકારની છે?
(A) નિર્દેશાર્થ
(C) વિધ્યર્થ   (B) આજ્ઞાર્થ
              (D) સંભાવનાર્થ

108. "મંગળકાકાને ફળિયું સ્વર્ગ સમાન લાગતું." આ વાક્યમાં 'ફળિયું' નો ક્યા ક્યા સંદર્ભે પદચ્છેદ સાચો છે?
(A) નામવાચક સંજ્ઞા, નપુંસક લિંગનું નામ, એકવચન
(B) ફક્ત નપુંસક લિંગનું નામ
(C) ફક્ત એકવચન
(D) કેવળપ્રયોગી અને એકવચન

109. "દુઃખમાં ફસાયેલ લોકો પિતાજી પાસે આવે છે."
આ વાક્યનું 'ફસાયેલ' પદ કયું કૃદંત દર્શાવે છે?
(A) ભૂતકૃદંત   (B) ભવિષ્ય કૃદંત
(C) વર્તમાન કૃદંત   (D) વિધ્યર્થ કૃદંત

110. "રવિ હવે રોજ સવારે દોડશે." આ વાક્યને ભાવે વાક્યમાં પરિવર્તન કરો.

    (A) રવિ હવેથી, રોજ, સવારે દોડશે.

    (B) રવિ હવે સવારથી રોજ દોડશે. ✗

    (C) રવિથી હવે રોજ સવારે દોડાય છે.

    (D) રવિથી હવે રોજ સવારે દોડાશે

111. 'જેમાં ક્રિયાનું સાધન, રીત કે કારણ દર્શાવ્યું હોય' – તે કઈ વિભક્તિ કહેવાય?

    (A) પ્રથમા વિભક્તિ   (B) તૃતીયા વિભક્તિ

    (C) ચતુર્થી વિભક્તિ   (D) દ્વિતીયા વિભક્તિ

112. કયા તળપદા શબ્દનું શિષ્ટરૂપ ખોટું છે?

    (A) પ્રથમી-પૃથ્વી   (B) પડતપે-છાંયામાં

    (C) રાન-જંગલ   (D) પ્હાણ-પથ્થર

113. 'સંયમ' શબ્દમાં કયો અનુનાસિક વ્યંજન રહેલો છે?

    (A) 'ઞ્'   (B) 'ય્'

    (C) 'વ્'   (D) 'અં'

114. ધ્વનિના ઉચ્ચારિત સ્વરૂપને શું કહે છે?

    (A) વાચા   (B) કલરવ

    (C) હવા   (D) ઉચ્છ્વાસ

115. 'અષ્ટસિદ્ધિ' કયો સમાસ છે?

    (A) કર્મધારય   (B) મધ્યમપદ લોપી

    (C) દ્વિગુ   (D) દ્વન્દ્વ

116. નીચેનામાંથી 'સ્વરસંધિ' થયેલ હોય તે શબ્દ શોધો.

    (A) અભિષેક   (B) ધનુષ્ટંકાર

    (C) વિદ્યાર્થી   (D) નિઃશ્વાસ

117. ચોપાઈ છંદ સંદર્ભે નીચેનામાંથી કયું સાચું છે?

    (A) માત્રા-24, ચરણ-4   (B) માત્રા-28, ચરણ-2 ✗

    (C) માત્રા-32 ✗   (D) માત્રા-15, ચરણ-4

118. "નકામી મહેનત કરવી" આવો અર્થ કયા રૂઢિપ્રયોગનો થાય?

    (A) નાક લીટી તાણવી   (B) ઘાસ કાપવું

    (C) ધૂળ ધાણી કરવું   (D) પીઠ દેવી

119. 'ઉલાળ' શબ્દનો વિરોધી શબ્દ કયો?

    (A) ફરાળ   (B) કરાળ

    (C) ધરાળ   (D) વિશાળ

120. નીચેનામાંથી કયા શબ્દની જોડણી શુદ્ધ નથી?

    (A) પ્રમાણીક   (B) નૈસર્ગિક

    (C) નિશા   (D) કુતૂહલ