MOONEY PROBLEM CHECK LIST

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1950 REVISION

Age........................................................................................................ Date of birth.................................................................................................... Sex

Class in college.......................................................................................... Marital status..........................................................................................
(Freshman, Sophomore, etc.) (Single, married, etc.)

Curriculum in which you are enrolled..........................................................................................................................
(Electrical Engineering, Teacher Education, Liberal Arts, etc.)

Name of the counselor, course or agency for whom you are marking this check list

Your name or other identification, if desired........................................

Date........................................................................................................

DIRECTIONS

This is not a test. It is a list of troublesome problems which often face students in college—problems
of health, money, social life, relations with people, religion, studying, selecting courses, and the like.
You are to go through the list, pick out the particular problems which are of concern to you, indicate
those which are of most concern, and make a summary interpretation in your own words.

More specifically, you are to take these three steps.

First Step: Read the list slowly, pause at each item, and if it suggests something which is trou­bling you, underline it, thus "34. Sickness in the family." Go through the whole list, underlining the items which suggest troubles (difficulties, worries) of concern to you.

Second Step: After completing the first step, look back over the items you have underlined and circle the numbers in front of the items which are of most concern to you, thus,

" 34. Sickness in the family."

Third Step: After completing the first and second steps, answer the summarizing questions on pages 5 and 6.

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First Step: Read the list slowly, and as you come to a problem which troubles you, underline it.

1. Feeling tired much of the time
2. Being underweight
3. Being overweight
4. Not getting enough exercise
5. Not getting enough sleep
6. Too little money for clothes
7. Receiving too little help from home
8. Having less money than my friends
9. Managing my finances poorly
10. Needing a part-time job now
11. Not enough time for recreation
12. Too little chance to get into sports
13. Too little chance to enjoy art or music
14. Too little chance to enjoy radio or television
15. Too little time to myself
16. Being timid or shy
17. Being too easily embarrassed
18. Being ill at ease with other people
19. Having no close friends in college
20. Missing someone back home
21. Taking things too seriously
22. Worrying about unimportant things
23. Nervousness
24. Getting excited too easily
25. Finding it difficult to relax
26. Too few dates
27. Not meeting anyone I like to date
28. No suitable places to go on dates
29. Deciding whether to go steady
30. Going with someone my family won’t accept
31. Being criticized by my parents
32. Mother
33. Father
34. Sickness in the family
35. Parents sacrificing too much for me
36. Not going to church often enough
37. Dissatisfied with church services
38. Having beliefs that differ from my church
39. Losing my earlier religious faith
40. Doubting the value of worship and prayer
41. Not knowing how to study effectively
42. Easily distracted from my work
43. Not planning my work ahead
44. Having a poor background for some subjects
45. Inadequate high school training
46. Restless at delay in starting life work
47. Doubting wisdom of my vocational choice
48. Family opposing my choice of vocation
49. Purpose in going to college not clear
50. Doubting the value of a college degree
51. Hard to study in living quarters
52. No suitable place to study on campus
53. Teachers too hard to understand
54. Textbooks too hard to understand
55. Difficulty in getting required books
56. Not as strong and healthy as I should be
57. Allergies (hay fever, asthma, hives, etc.)
58. Occasional pressure and pain in my head
59. Gradually losing weight
60. Not getting enough outdoor air and sunshine
61. Going in debt for college expenses
62. Going through school on too little money
63. Graduation threatened by lack of funds
64. Needing money for graduate training
65. Too many financial problems
66. Not living a well-rounded life
67. Not using my leisure time well
68. Wanting to improve myself culturally
69. Wanting to improve my mind
70. Wanting more chance for self-expression
71. Wanting a more pleasing personality
72. Losing friends
73. Wanting to be more popular
74. Being left out of things
75. Having feelings of extreme loneliness,
76. Moodiness, “having the blues”
77. Failing in so many things I try to do
78. Too easily discouraged
79. Having bad luck
80. Sometimes wishing I’d never been born
81. Afraid of losing the one I love
82. Loving someone who doesn’t love me
83. Too inhibited in sex matters
84. Afraid of close contact with the opposite sex
85. Wondering if I’ll ever find a suitable mate
86. Parents separated or divorced
87. Parents having a hard time of it
88. Worried about a member of my family
89. Father or mother not living
90. Feeling I don’t really have a home
91. Difficulties in making from my family in religious beliefs
92. Failing to see the relation of religion to life
93. Don’t know what to believe about God
94. Science conflicting with my religion
95. Needing a philosophy of life
96. Forgetting things I’ve learned in school
97. Getting low grades
98. Weak in writing
99. Weak in spelling or grammar
100. Slow in reading
101. Unable to enter desired vocation
102. Enrolled in the wrong curriculum
103. Wanting to change to another college
104. Wanting part-time experience in my field
105. Doubting college prepares me for working
106. College too indifferent to student needs
107. Dull classes
108. Too many poor teachers
109. Teachers lacking grasp of subject matter
110. Teachers lacking personality
111. Poor posture
112. Poor complexion or skin trouble
113. Too short
114. Too tall
115. Not very attractive physically

116. Needing money for better health care
117. Needing to watch every penny I spend
118. Family worried about finances
119. Disliking financial dependence on others
120. Financially unable to get married

121. Awkward in meeting people
122. Awkward in making a date
123. Slow in getting acquainted with people
124. In too few student activities
125. Boring weekends

126. Feelings too easily hurt
127. Being talked about
128. Being watched by other people
129. Worrying how I impress people
130. Feeling inferior

131. Unhappy too much of the time
132. Having memories of an unhappy childhood
133. Daydreaming
134. Forgetting things
135. Having a certain nervous habit

136. Being in love
137. Deciding whether I am in love
138. Wondering whether to become engaged
139. Wondering if I really know my prospective mate
140. Being in love with someone I can't marry

141. Friends not welcomed at home
142. Home life unhappy
143. Family quarrels
144. Not getting along with a member of my family
145. Irritated by habits of a member of my family

146. Parents old-fashioned in their ideas
147. Missing spiritual elements in college life
148. Troubled by lack of religion in others
149. Affected by racial or religious prejudice
150. In love with someone of a different race or religion

151. Not spending enough time in study
152. Having too many outside interests
153. Trouble organizing term papers
154. Trouble in outlining or note-taking
155. Trouble with oral reports

156. Wondering if I'll be successful in life
157. Needing to plan ahead for the future
158. Not knowing what I really want
159. Trying to combine marriage and a career
160. Concerned about military service

161. Not having a good college adviser
162. Not getting individual help from teachers
163. Not enough chances to talk to teachers
164. Teachers lacking interest in students
165. Teachers not considerate of students' feelings

166. Frequent sore throat
167. Frequent colds
168. Nose or sinus trouble
169. Speech handicap (stuttering, etc.)
170. Weak eyes

171. Working late at night on a job
172. Living in an inconvenient location
173. Transportation or commuting difficulty
174. Lacking privacy in living quarters
175. Having no place to entertain friends

176. Wanting to learn how to dance
177. Wanting to learn how to entertain
178. Wanting to improve my appearance
179. Wanting to improve my manners or etiquette
180. Trouble in keeping a conversation going

181. Being too envious or jealous
182. Being stubborn or obstinate
183. Getting into arguments
184. Speaking or acting without thinking
185. Sometimes acting childish or immature

186. Losing my temper
187. Being careless
188. Being lazy
189. Tending to exaggerate too much
190. Not taking things seriously enough

191. Embarrassed by talk about sex
192. Disturbed by ideas of sexual acts
193. Needing information about sex matters
194. Sexual needs unsatisfied
195. Wondering how far to go with the opposite sex

196. Unable to discuss certain problems at home
197. Clash of opinion between me and parents
198. Talking back to my parents
199. Parents expecting too much of me
200. Carrying heavy home responsibilities

201. Wanting more chances for religious worship
202. Wanting to understand more about the Bible
203. Wanting to feel close to God
204. Confused in some of my religious beliefs
205. Confused on some moral questions

206. Not getting studies done on time
207. Unable to concentrate well
208. Unable to express myself well in words
209. Vocabulary too limited
210. Afraid to speak up in class discussions

211. Wondering whether further education is worthwhile
212. Not knowing where I belong in the world
213. Needing to decide on an occupation
214. Needing information about occupations
215. Needing to know my vocational abilities

216. Classes too large
217. Not enough class discussion
218. Classes run too much like high school
219. Too much work required in some courses
220. Teachers too theoretical
221. Frequent headaches  
222. Menstrual or female disorders  
223. Sometimes feeling faint or dizzy  
224. Trouble with digestion or elimination  
225. Glandular disorders (thyroid, lymph, etc.)  
226. Not getting satisfactory diet  
227. Tiring of the same meals all the time  
228. Too little money for recreation  
229. No steady income  
230. Unsure of my future financial support  
231. Lacking skill in sports and games  
232. Too little chance to enjoy nature  
233. Too little chance to pursue a hobby  
234. Too little chance to read what I like  
235. Wanting more worthwhile discussions with people  
236. Disliking someone  
237. Being disliked by someone  
238. Feeling that no one understands me  
239. Having no one to tell my troubles to  
240. Finding it hard to talk about my troubles  
241. Afraid of making mistakes  
242. Can't make up my mind about things  
243. Lacking self-confidence  
244. Can't forget an unpleasant experience  
245. Feeling life has given me a "raw deal"  
246. Disappointment in a love affair  
247. Girl friend  
248. Boy friend  
249. Breaking up a love affair  
250. Wondering if I'll ever get married  
251. Not telling parents everything  
252. Being treated like a child at home  
253. Being an only child  
254. Parents making too many decisions for me  
255. Wanting more freedom at home  
256. Sometimes lying without meaning to  
257. Pretending to be something I'm not  
258. Having a certain bad habit  
259. Unable to break a bad habit  
260. Getting into serious trouble  
261. Worrying about examinations  
262. Slow with theories and abstractions  
263. Weak in logical reasoning  
264. Not smart enough in scholastic ways  
265. Fearing failure in college  
266. Deciding whether to leave college for a job  
267. Doubting I can get a job in my chosen vocation  
268. Wanting advice on next steps after college  
269. Choosing course to take next term  
270. Choosing best courses to prepare for a job  
271. Some courses poorly organized  
272. Courses too unrelated to each other  
273. Too many rules and regulations  
274. Unable to take courses I want  
275. Forced to take courses I don't like  
276. Having considerable trouble with my teeth  
277. Trouble with my hearing  
278. Trouble with my feet  
279. Bothered by a physical handicap  
280. Needing medical advice  
281. Not getting a job during vacations  
282. Worrying for all my expenses  
283. Doing outside work more than is good for me  
284. Getting very low wages  
285. Dissatisfied with my present job  
286. Too little chance to do what I want to do  
287. Too little social life  
288. Too much social life  
289. Nothing interesting to do in vacations  
290. Wanting very much to travel  
291. Too self-centered  
292. Hurting other people's feelings  
293. Avoiding someone I don't like  
294. Too easily led by other people  
295. Lacking leadership ability  
296. Too many personal problems  
297. Too easily moved to tears  
298. Bothered by bad dreams  
299. Sometimes bothered by thoughts of insanity  
300. Thoughts of suicide  
301. Thinking too much about sex matters  
302. Too easily aroused sexually  
303. Having to wait too long to get married  
304. Needing advice about marriage  
305. Wondering if my marriage will succeed  
306. Wanting love and affection  
307. Getting home too seldom  
308. Living at home, or too close to home  
309. Relatives interfering with family affairs  
310. Wishing I had a different family background  
311. Sometimes not being as honest as I should be  
312. Having a troubled or guilty conscience  
313. Can't forget some mistakes I've made  
314. Giving in to temptations  
315. Lacking self-control  
316. Not having a well-planned college program  
317. Not really interested in books  
318. Poor memory  
319. Slow in mathematics  
320. Needing a vacation from school  
321. Afraid of unemployment after graduation  
322. Not knowing how to look for a job  
323. Lacking necessary experience for a job  
324. Not reaching the goal I've set for myself  
325. Wanting to quit college  
326. Grades unfair as measures of ability  
327. Unfair tests  
328. Campus activities poorly co-ordinated  
329. Campus lacking in school spirit  
330. Campus lacking in recreational facilities  

Second Step: Look back over the items you have underlined and circle the numbers in front of the problems which are troubling you most.

Total...
Third Step: Answer the following four questions.

QUESTIONS

1. Do you feel that the items you have marked on the list give a well-rounded picture of your problems?
   ..........Yes ..........No. If any additional items or explanations are desired, please indicate them here.

2. How would you summarize your chief problems in your own words? Write a brief summary.

(Questions are continued on next page→)
3. Whether you have or have not enjoyed filling out the list, do you think it has been worth doing? ..........Yes ..........No. Could you explain your reaction?

4. If the opportunity were offered, would you like to talk over any of these problems with someone on the college staff? ..........Yes ..........No. If so, do you know the particular person(s) with whom you would like to have these talks? ..........Yes ..........No.
Instructions

There are 90 statements in this booklet. They are statements about families. You are to decide which of these statements are true of your family and which are false. Make all your marks on the separate answer sheet. If you think the statement is True or mostly True of your family, make an X in the box labeled T (true). If you think the statement is False or mostly False of your family, make an X in the box labeled F (false).

You may feel that some of the statements are true for some family members and false for others. Mark T if the statement is true for most members. Mark F if the statement is false for most members. If the members are evenly divided, decide what is the stronger overall impression and answer accordingly.

Remember, we would like to know what your family seems like to you. So do not try to figure out how other members see your family, but do give us your general impression of your family for each statement.
1. Family members really help and support one another.
2. Family members often keep their feelings to themselves.
3. We fight a lot in our family.
4. We don't do things on our own very often in our family.
5. We feel it is important to be the best at whatever you do.
6. We often talk about political and social problems.
7. We spend most weekends and evenings at home.
8. Family members attend church, synagogue, or Sunday School fairly often.
9. Activities in our family are pretty carefully planned.
10. Family members are rarely ordered around.
11. We often seem to be killing time at home.
12. We say anything we want to around home.
13. Family members rarely become openly angry.
14. In our family, we are strongly encouraged to be independent.
15. Getting ahead in life is very important in our family.
16. We rarely go to lectures, plays or concerts.
17. Friends often come over for dinner or to visit.
18. We don't say prayers in our family.
19. We are generally very neat and orderly.
20. There are very few rules to follow in our family.
21. We put a lot of energy into what we do at home.
22. It's hard to "blow off steam" at home without upsetting somebody.
23. Family members sometimes get so angry they throw things.
24. We think things out for ourselves in our family.
25. How much money a person makes is not very important to us.
26. Learning about new and different things is very important in our family.
27. Nobody in our family is active in sports, Little League, bowling etc.
28. We often talk about the religious meaning of Christmas, Passover, or other holidays.
29. It's often hard to find things when you need them in our household.
30. There is one family member who makes most of the decisions.
31. There is a feeling of togetherness in our family.
32. We tell each other about our personal problems.
33. Family members hardly ever lose their tempers.
34. We come and go as we want to in our family.
35. We believe in competition and "may the best man win."
36. We are not that interested in cultural activities.
37. We often go to movies, sports events, camping, etc.
38. We don’t believe in heaven or hell.
39. Being on time is very important in our family.
40. There are set ways of doing things at home.
41. We rarely volunteer when something has to be done at home.
42. If we feel like doing something on the spur of the moment we often just pick up and go.
43. Family members often criticize each other.
44. There is very little privacy in our family.
45. We always strive to do things just a little better the next time.
46. We rarely have intellectual discussions.
47. Everyone in our family has a hobby or two.
48. Family members have strict ideas about what is right and wrong.
49. People change their minds often in our family.
50. There is a strong emphasis on following rules in our family.
51. Family members really back each other up.
52. Someone usually gets upset if you complain in our family.
53. Family members sometimes hit each other.
54. Family members almost always rely on themselves when a problem comes up.
55. Family members rarely worry about job promotions, school grades, etc.
56. Someone in our family plays a musical instrument.
57. Family members are not very involved in recreational activities outside work or school.
58. We believe there are some things you just have to take on faith.
59. Family members make sure their rooms are neat.
60. Everyone has an equal say in family decisions.
61. There is very little group spirit in our family.
62. Money and paying bills is openly talked about in our family.
63. If there’s a disagreement in our family, we try hard to smooth things over and keep the peace.
64. Family members strongly encourage each other to stand up for their rights.
65. In our family, we don’t try that hard to succeed.
66. Family members often go to the library.
67. Family members sometimes attend courses or take lessons for some hobby or interest (outside of school).
68. In our family each person has different ideas about what is right and wrong.
69. Each person's duties are clearly defined in our family.
70. We can do whatever we want to in our family.
71. We really get along well with each other.
72. We are usually careful about what we say to each other.
73. Family members often try to one-up or out-do each other.
74. It's hard to be by yourself without hurting someone's feelings in our household.
75. "Work before play" is the rule in our family.
76. Watching T.V. is more important than reading in our family.
77. Family members go out a lot.
78. The Bible is a very important book in our home.
79. Money is not handled very carefully in our family.
80. Rules are pretty inflexible in our household.
81. There is plenty of time and attention for everyone in our family.
82. There are a lot of spontaneous discussions in our family.
83. In our family, we believe you don't ever get anywhere by raising your voice.
84. We are not really encouraged to speak up for ourselves in our family.
85. Family members are often compared with others as to how well they are doing at work or school.
86. Family members really like music, art and literature.
87. Our main form of entertainment is watching T.V. or listening to the radio.
88. Family members believe that if you sin you will be punished.
89. Dishes are usually done immediately after eating.
90. You can't get away with much in our family.
APPENDIX V

REGIONAL COLLEGE OF EDUCATION
(National Council of Educational Research & Training, New Delhi)

UNIVERSITY OF MYSORE

A BATTERY OF ACHIEVEMENT TESTS IN GENERAL MATHEMATICS,
GENERAL SCIENCE AND SOCIAL STUDIES FOR STANDARD X
(FINAL TEST)

INSTRUCTIONS

1. Do not write anything on this booklet.

2. Attempt your answers in the separate Answer Sheet supplied to you.

3. There are three parts A, B and C with 30 items each. Part A contains test items in General Mathematics, Part B in General Science and Part C in Social Studies.

4. For each item in the test there are four answers denoted by A, B, C and D. Only one of these answers is either correct or the most appropriate. The letter against which the correct answer or the most appropriate answer is given should be crossed in the appropriate column on the Answer Sheet.

5. Answer as quickly as you can. The time limit is one hour and 40 minutes, 40 minutes for Part A, 30 minutes for Part B and 30 minutes for Part C.

6. After 40 minutes there will be a bell. On hearing this bell, please start attempting Part B even if you have not finished all the items in Part A. Similarly there will be a bell when the time limit for Part B and C is over. In case you have finished all the items in a part before time, wait till you hear the bell. Only on hearing the bell pass on to the next part.

7. Do not ask any questions after you begin to answer the test. Get all your doubts cleared before you begin to answer the test.

8. Examine carefully the following example.

EXAMPLE

The first President of India after independence was
A. Dr. Zakir Hussain
B. Dr. Rajendra Prasad
C. Sri Jawaharlal Nehru
D. Dr. S. Radha Krishnan

Dr. Rajendra Prasad was the first President of India after independence. This answer which is the correct one is found against the letter (B). Therefore, you should cross the letter (B) as shown in the above example.

Now, in the same way answer the remaining test items on the Answer Sheet.
PART - A
GENERAL MATHEMATICS

1. The total rainfall of a place in a week is 13.3 cms. The daily average rainfall during the week will be
   A. 1.3 cms  B. 1.9 cms 
   C. 1.33 cms  D. 1.39 cms

2. The formula for finding the area of the slant surface of a pyramid is
   A. ½ area of base x vertical height
   B. 1/3 area of base x vertical height.
   C. ½ slant side x perimeter of the base.
   D. 1/2 area of base x vertical height

3. A number of two digits is 10x+y. The number obtained by interchanging the digit is
   A. y+10x  B. 10y+x
   C. 1/x +1/y  D. 10/x +1/y

4. A man has got some stock in a certain company. His income will improve when the value of the
   A. share increases  B. share decreases
   C. share remains same  D. dividend declared is more

5. Which one of the triangles having the following sets of sides is right angled?
   A. 2 cm, 2.5 cm, 3 cm.
   B. 5 cm, 5 cm, 7 cm.
   C. 3 cm, 4 cm, 4.8 cm.
   D. 6 cm, 8 cm, 10 cm.

6. After the management expenses are taken out from the profits, the dividend is first distributed to
   A. Management shares  B. Ordinary shares
   C. Preferential shares  D. Deferred shares

7. The area of the curved surface of a cone is given by the formula \( \pi rl \). If \( r \) stands for the radius of the base, then \( l \) stands for
   A. Vertical height  B. Diameter of the base
   C. Radius of the base  D. Slant height

8. One angle of a right angle triangle is equal to 45° and its hypotenuse is 10 cm. What is the perpendicular distance of the hypotenuse from the opposite vertex
   A. 5 cm.  B. 5√2 cm.
   C. 7.5 cm.  D. 10 cm.

9. Five pupils have solved for \( x \) and \( y \) the following equations.
   \[ 3x+5y = 34 \]
   \[ 2x+3y = 21 \]
   and obtained four different answers as given below. The correct answer is
   A. 2, 3  B. 3, 2
   C. 3, 5  D. 5, 3

10. A heap of sand in the shape of a cone has a base of radius 6 ft., and height 5 ft. This sand is spread over a net ball court to a height of 1 inch. The given shape helps us to find
   A. Length of the court  B. Breadth of the court
   C. Perimeter of the court  D. Area of the court

11. A hemisphere has a diameter of 14 cm. Its volume is calculated as
   A. \( \frac{4}{3} \pi \times 14^3 \)  B. \( \frac{2}{3} \pi \times 14^3 \)
   C. \( \frac{1}{3} \pi \times 14^3 \)  D. \( \frac{2}{3} \pi \times 7^3 \)

12. The area of the base of a cone is doubled and the height reduced to half. Then the volume of the new cone is
   A. unaltered  B. doubled
   C. trebled  D. reduced to half

13. When the rate of wool was increased by 25 %, the number of customers was decreased to 25 %. As a result, the shopkeeper’s income would
   A. increase  B. remain same
   C. decrease  D. fluctuate

14. A man goes by a car from X to Y at 30 km per hour and returns at 50 km per hour. The average speed for to and for journey per hour will be
   A. 30 km  B. 35 km
   C. 40 km  D. 45 km

15. If \( (1) \ x -3y = 0 \) and \( (2) \ 5y -3x = 2 \), what value of \( y \) from equation (I) can be used for substitution in the second equation
   A. \( y = 3x \)  B. \( y = x/3 \)
   C. \( y = 3/x \)  D. \( Y = x + 3 \)

16. The rectangular base of a right pyramids is 12 cm. The volume of the pyramid is
   A. 240 c.c.  B. 320 c.c.
   C. 480 c.c  D. 640 c.c.

17. In a right angled triangle ABC \( \angle B = 90^\circ \), \( a = 3 \text{ cm} \), and \( c = 4 \text{ cm} \). Then
   A. 2 cm.  B. 3 cm
18. The area of a right angled $\triangle ABC$ where $AB=3''$, $BC=4''$ and $CA=5''$ is
A. $3'' \times 4''$  
B. $3'' \times 4'/2$
C. $4'' \times 5''$  
D. $4'' \times 5'/2$

19. In a angle $\triangle LMN$, P and Q are middle points of LM and LN. Which of the following conclusions is wrong ?
A. $\triangle PMR = \triangle QNR$
B. $\triangle PLQ = \triangle MNR$
C. $\triangle MQL = \triangle PLN$
D. $\triangle LPRQ = \triangle MRN$

20. When $x + 2y = 5$ and $2x + 3y = 6$ then
A. $x = 4$, $y = 5$
B. $x = -3$, $y = 4$
C. $x = 6$, $y = -1$
D. $x = 3$, $y = -4$

21. $a^3 + f$ is equal to:
A. $(a+b)(a^2-ab+b^2)$
B. $(a+b)(a^2-ab-b^2)$
C. $(a+b)(a^2+ab+b^2)$
D. $(a+b)(a^2+ab-b^2)$

22. The three sides of a $\triangle$ are in the ratio of $3:4:5$. The $\triangle$ would be
A. equilateral
B. isosceles
C. right angled
D. acute angled

23. What is the height of an isosceles triangle with base 10 cm and one of the equal sides 13 cm.
A. 8 cm  
B. 10 cm  
C. 12 cm  
D. 13 cm

24. The population of a country is 80 lakhs and its area is 12000 square Km. The average population per square Km will be
A. 80,000  
B. 666.7  
C. 12,800  
D. 12,000

25. In a right angled triangle $\triangle PQR$, $\angle Q=90^\circ$, $p=3$ cms and $r=4$ cms. Then the value of $2q-r$ is
A. 2 cms  
B. 3 cms  
C. 5 cms  
D. 6 cms

26. The diameter of a wooden cylinder is 40 cm. And height 60 cm. The volume of the biggest sphere that can be carved out of the cylinder is worked out as
A. $4/3\pi \times 20^3/60$  
B. $4/3\pi \times 20^3$  
C. $4/3\pi \times 20^3$  
D. $4/3\pi \times 40^3$

27. A father's age is eight times that of his son today. After three years it will be five times. If the son is $x$ years and father is $y$ years old today, which of the following pairs is correct
A. (i) $y=8x$  
(ii) $3y=5(x+8)$
B. (i) $y=x/8$  
(ii) $3y=5(x+3)$
C. (i) $y=8/x$  
(ii) $3y=8(x+3)$
D. (i) $y=8x$  
(ii) $y+3=5(x+3)$

28. $(x+y)(4x-7y)=75$, and $5(3x-y)=75$, with the value $x=10$ and $y=5$, if the coefficient of one term is replaced by 2, the above equations are satisfied. Which coefficient is required to be replaced
A. 1  
B. 3  
C. 4  
D. 7

29. The diameter of the base of a conical tent is 44 meters. A rope tied from the top of the tent to a peg on the border of the tent measures 12 meters. The area of the cloth cover of the tent is calculated as
A. $2\times22/7\times44\times12$ Sq. meters  
B. $22/7\times44\times12$ Sq. meters  
C. $44\times12$ Sq. meters  
D. $22/7\times22\times12$ Sq. meters

30. The angle of depression of an object seen from the top of the tower of height 60 meters is $45^\circ$. The distance of object from the foot of the tower is equal to
A. 30 meters  
B. 45 meters  
C. 60 meters  
D. $60\sqrt{2}$ meters
1. Which of the following function is reflex action
   A. Finding date from calendar
   B. Multiplication of two numbers
   C. Reading a news item
   D. Sudden withdrawal of hand from hot object

2. Which of the following is not the function of cerebrum
   A. Reflex action
   B. Memorising facts
   C. Reasoning
   D. Interpretation

3. The extreme ends of some railway platforms are tapered down because
   A. It gives symmetrical appearance to the platform
   B. It is less costly to construct that way
   C. It is advantageous to carry loads on slopes
   D. It allows water on platform to run down

4. The part of the nervous system which runs in the back bone is called
   A. Cerebrum
   B. Medulla oblongata
   C. Cerebellum
   D. Spinal cord

5. The core of an Electro magnet is usually made of
   A. Steel
   B. Ebonite
   C. Copper
   D. Soft Iron

6. Weather variations are felt by the skin because it contains
   A. Sweat glands
   B. Tactile corpuscles
   C. Hair
   D. Capillaries

7. Two spoons, one bigger and the other smaller are being electroplated for the same length of time with the same source of current. Which of the following predictions is correct?
   A. The bigger spoon has thicker coating of silver
   B. The bigger spoon has thinner coating of silver
   C. The bigger spoon has the same coating of silver as the smaller spoon
   D. There will be no difference in the amount of silver that the two spoons get

8. A practical experiment was given to find out the mechanical advantage of two movable pulleys. Four boys had arranged in four different ways as shown in the diagrams. The correct arrangement is

9. A wet wound causes septic sooner than dry wound. The top most reason is
   A. Water contains certain impurities
   B. Bacteria conveniently lodges in the wound
   C. Moisture may cause bleeding which may lead to septic
   D. Moisture promotes growth and multiplication of bacteria

10. While lecturing a man scratches his body to drive away a biting mosquito. The order for doing such an action comes from
    A. Brain
    B. Spinal cord
    C. Optic nerve
    D. Sensory nerve of the hand

11. Even though a star in a constellation may perish today, we will not be able to perceive the change for a number of years because
    A. The stars in any constellation are very tiny
    B. The light they emit is ever lasting
    C. There may be no air extending upto that star
    D. They are very far away from the earth

12. Time taken by the moon to cross half the number of star constellations in the zodiac is approx.
    A. Six hours
    B. Half a day
    C. One day
    D. One fortnight

13. Hearing is made possible by
    A. Internal ear alone
    B. Middle ear + internal ear
    C. Internal ear + middle ear + brain
    D. External ear + middle ear + internal ear

14. Spinal cord connects
    A. Cerebrum and Cerebellum
    B. Medulla oblongata and Cerebellum
    C. Brain and Limb
    D. Optic and Auditory nerves

15. A school boy while going in a storm blowing east - west saw wind mill standing still north - south. Which one of the following could be the correct reason
    A. Crank shaft was disconnected
    B. Wind wane was cut off
    C. There was no water in the well
    D. The pump shaft was removed

16. The mechanical advantage of the wheel and Axle is given by
    A. Weight of wheel/ weight of axle
    B. Radius of wheel/radius of axle
    C. Radius of axle/radius of wheel
    D. Weight of axle/weight of wheel

17. P is a small magnetic needle free to move. Q is a conductor. When an electric current is made to pass through Q, the expected observation is that the needle will
    A. Stand still
18. When one eye is pressed with a finger, one sees double images of an object. This is because
   A. A double image is formed in that eye
   B. Double image is formed in both eyes
   C. The aperture of that eye becomes smaller
   D. Of shifting of focus in that eye

19. A boy is enjoying the game of see-saw by sitting at the edge of a branch of a tree. This device can be classified as
   A. A lever of first order
   B. A lever of second order
   C. A lever of first and second order
   D. No lever

20. A white star like Vega looks less bright than the sun because
   A. Vega is more distant than the sun
   B. Total surface of Vega is less than that of the sun
   C. Vega is less luminous than the Sun
   D. Vega is cooler than the Sun

21. The mechanical advantage of the wheel and axle arrangement can be improved by
   A. Increasing the diameter of the wheel
   B. Decreasing the diameter of the wheel
   C. Making the diameter of both equal
   D. Increasing the diameter of the axle

22. To an observer on the moon the sky would look
   A. The same as on earth
   B. Much brighter
   C. Rather dull
   D. Absolutely dark

23. The pulse movement is recorded from
   A. An artery
   B. The movement of the left ventricle
   C. A vein
   D. The flow of leucocytes in blood

24. The following are the different diagrams for the connections of four identical bulbs with a fuse. The one which will stand the most chance for the fuse to go is

25. The principal of inclined plane is found in
   A. Knife
   B. Screw
   C. Scissors
   D. Forceps

26. A boy is capable of lifting a load to the extent of 50 Kg. To lift a load of 312 Kg. The minimum number of movable pulleys he has to use under the block system of pulleys is
   A. One
   B. Two
   C. Three
   D. Four

27. The length of the shadow of an electric pole measured at a particular time everyday over a period varies. This is due to
   A. The change in speed of the sun in the path of the Zodiac
   B. The rotation of the earth round its axis
   C. The movement of the Sun in the milky way
   D. The inclination of the earth's axis to the plane of its orbit

28. A conductor carrying an electric current is held over a suspended magnetic needle. It is observed that the deflected needle recedes back. This is probably due to
   A. Decrease of the current in the conductor
   B. Increase of the current in the conductor
   C. Reversing the current in the conductor
   D. No change in the current for a sufficient length of time

29. We cannot see the whole of the milky way in the sky at one time because
   A. The solar system is a part of it
   B. It is very far away from us
   C. The earth is at the center of it
   D. It is not very bright

30. P is a magnet. Q is the coil of insulated wire suspended in between the two poles of the magnet but free to move. When an electric current is made to pass through the coil, the possible observation is that the coil will be

A. Deflected in one direction
B. Deflected in both directions
C. Remaining unaffected
D. Attracted towards the north pole of the magnet
PART C
SOCIAL STUDIES

1. The happiness of all is best achieved in a
   A. Capitalistic state
   B. Communist state
   C. Feudal state
   D. Welfare state

2. The last Indian Governor General of India was
   A. Mahatma Gandhi
   B. Sardar Patel
   C. Dr. Rajendra Prasad
   D. Sri Rajagopalachari

3. Gold is largely mined in
   A. Egypt
   B. South Africa
   C. India
   D. Chile

4. The Chief justice of India is
   A. elected by the judges of all the High Courts
   B. elected by the judges of the Supreme Court
   C. nominated by both the houses of Parliament
   D. appointed by the Presidents

5. We should pay taxes because
   A. The money collected is used for our welfare
   B. The govt. is poor
   C. The govt. compels us to pay them
   D. They are included in the budget

6. The biggest country in South America is
   A. Argentina
   B. Chile
   C. Brazil
   D. Columbia

7. Brazil is famous for the growth of
   A. Tea
   B. Wheat
   C. Coffee
   D. Cocoa

8. In case a Third World War breaks out which one of the following courses would India take in accordance with her established foreign policy
   A. She will not join war unless she is attacked
   B. She will automatically join Afro Asian group
   C. She will automatically join the Western Block
   D. She will automatically join the Communist Block

9. The Vice-President of the Indian union is the Chairman of the
   A. Lok Sabha
   B. Vidhana Sabha
   C. Vidhana Parishad
   D. Rajya Sabha

10. The person who started the League of Nation was
    A. Roosevelt
    B. A.V. Hume
    C. Woodrow Wilson
    D. Churchill

11. Only the following are allowed to settle in Australia
    A. Indians
    B. Africans
    C. Europeans
    D. Red Indians

12. The Indian freedom struggle of 1857 failed mainly because
    A. it was untimely
    B. it was not a unified effort
    C. the people of India liked the British
    D. the people had no common language

13. In the first Five Year Plan priority was given to improving agriculture. The most important reason for this was
    A. The govt. wanted to put agriculture on par with industry
    B. We were short of food
    C. We could not afford to import food and raw materials for ever
    D. Our farmers were poor

14. Among the following the only one which describes a Fundamental Rights guaranteed by the Indian Constitution is
    A. obtaining free and compulsory education up to the age of 14
    B. getting not less than the minimum prescribed wages for any work done
    C. enjoying freedom of movement throughout the World
    D. enjoying freedom to express one’s views

15. The Supreme Court can pass a judgement against the Prime Minister. This shows that
    A. the Supreme Court Judge gets more pay than the Prime Minister
    B. the Supreme Court Judge is more intelligent than the Prime Minister
    C. the Judiciary is independent of the Executive
    D. the Supreme Court Judge is appointed by the President of India

16. India and the U.A.R. are very friendly and have close relationship with each other in foreign affairs because
    A. there is a sizeable number of Muslims in India
    B. the U.A.R. is geographically very close to India
C. India and U.A.R both advocate non-interference in the internal affairs of a Nation
D. India and the U.A.R. were both under British control some time ago

17. The President of Indian Union is elected by
A. The Parliament
B. State Legislatures
C. The Cabinet
D. Electoral College

18. In the event of National Emergency the item of expenditure that can be curtailed without detriment to national defence of India is the earmarked for
A. steel industry
B. ship building
C. food production
D. community development

19. The Labour Commissioner is appointed to
A. regulate the terms and conditions of appointment of workers in the factories
B. administer the factories owned by private persons
C. regularise the service rules
D. look after the welfare of the workers

20. Prominence was given in the second five year plan to
A. Agriculture
B. Irrigation
C. Heavy Industries
D. Family planning

21. As the principal of a medical college, the advice one would give to the parting students regarding the most important duty of doctor is that he should
A. have a humanistic approach towards all patients
B. be able to run the hospitals on economic lines
C. do some social service after duty hour
D. seek the opinion of the patients on the line of treatment to be given

22. When the growth of population is more and the yield from agriculture is less
A. more funds should be allotted to agriculture
B. we must import food from other countries
C. some more people should take to agriculture
D. we must increase our yield by scientific methods of agriculture

23. Trade unions are formed by the workers to
A. fight against the govt.
B. give charity to the workers
C. protect their own rights
D. own and run the factories

24. The aim of the UNO with the signing of complete disarmament treaty would serve to
A. make the world free from cold war
B. make Russia militarily weak
C. give equal rights to poor and rich countries
D. give USA lead in the production of armament

25. The Vice – President of the USA is deputed to India to have urgent political consultation of the highest order. He has to confer with
A. Vice – President of India
B. Deputy Prime Minister
C. Prime Minister
D. Foreign Minister

26. India became a Sovereign Democratic Republic as a result of
A. The transfer of power by the Britishers to the Indian
B. India’s enrolment as a member of the UNO
C. The merger of all the princely states
D. Adoption of the constitution

27. The three Steel plants at Bhilai, Rourkela and Durgapur were taken up only under the public sector during the second five year plan. The most important reason for this was that
A. Capital investment and organisation on such large scale was not possible for private firms
B. For reasons of national security, the govt. did not want to entrust the work to private parties
C. Foreign countries, especially Russia, were not prepared to collaborate with private firms
D. Govt. did not want private firms to earn profits

28. A person in your locality is accused of murder and sentenced to death. You want to send a mercy petition. The petition should be addressed to
A. Prime Minister
B. Cabinet at the Center
C. President of the Indian Republic
D. Chief Justice of the Supreme court of India

29. The Civil Disobedience and the Quit India movements differ from each other with regards to
A. the ideals to be achieved
B. the relationship between the leaders
C. the methods of operation adopted
D. the sacrifices made by the people

30. The head quarters of the WHO is
A. The Hague
B. New York
C. Geneva
D. Paris